



UNDERGRADUATE CATALOG

2007



# UNIVERSITY OF CENTRAL MISSOURI

**2007 Undergraduate Catalog**

**University of Central Missouri  
Warrensburg, MO 64093**

**1-877-SAY-UCMO (1-877-729-8266)**

**[www.ucmo.edu](http://www.ucmo.edu)**

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PRINTED WITH AGRI-BASED INK ON RECYCLED PAPER

# University of Central Missouri

## Greetings

Welcome to the University of Central Missouri. We offer you this catalog as a way to keep you better informed about our institution and its exciting array of nationally and internationally known academic programs. We hope the catalog will also provide you with a better understanding of the many advantages of an education at UCM, and how the university can help you achieve your life's goals.

The University of Central Missouri aspires to be a national-level, comprehensive university that delivers a world-class university education by providing a small-college environment coupled with large-university opportunities. It's an ambitious goal, but one we are poised to accomplish.

Founded in 1871, Central Missouri today is a comprehensive institution with a statewide mission in professional applied sciences and technology. It provides more than 150 undergraduate and graduate programs of study to students who come from the United States and 51 foreign countries.

We're proud to be a state leader in discipline-specific accreditation, and we offer a personalized classroom experience with our 16-1 student-faculty ratio. We think you'll be impressed with the university's beautiful 1,561-acre campus and the friendliness of the people who make this university a great place to learn and live.

While you are here, we will help you attain skills needed for lifelong success. You will not only reap the benefits of a quality education, but also leave here feeling confident that you can conquer the challenges that are awaiting you in the professional world. Here's a sample of what you can expect from Central Missouri:

- committed, inspired faculty members focused primarily on student learning;
- campus life filled with opportunities for involvement and personal growth in a safe, beautiful environment;
- a level of competence in your chosen field of study;
- a culture of friendship and service that extends from UCM around the globe; and
- a community of successful alumni with traditions that span generations.

The University of Central Missouri is committed to providing you with an education that will benefit you long after you have earned your diploma. Thank you for choosing UCM.

Aaron M. Podolefsky, Ph.D.  
University President



Aaron Podolefsky  
University President

For updated information, visit the university's web site:

**[www.ucmo.edu](http://www.ucmo.edu)**

Announcements in this catalog are subject to change and thus do not constitute an agreement or contract.

Every effort is made to provide accurate and up-to-date information, however, the university reserves the right to change without notice statements concerning rules, policies, fees, curricula, courses or other matters when necessary.

This publication was prepared by the Registrar's Office, Ward Edwards Building 1000, with help from the Office of Undergraduate Studies, JCKL1450, and University Relations, Administration 302, University of Central Missouri, Warrensburg, MO 64093.

**Photo:** The Office of Student Financial Assistance and the Office of Student Accounts are located on the ground floor of the Administration Building on the east end of the quadrangle.

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Many offices frequently visited by students are located in the Ward Edwards Building on the north side of the quadrangle.

**Registrar**  
 Ward Edwards 1000

**Admissions**

- Undergraduate  
 Ward Edwards 1400
- Graduate School  
 Ward Edwards 1800

**Academic Advisement**  
 Ward Edwards 1100

**International Center**  
 Ward Edwards 1200

**2007-2008 Calendar****SUMMER SESSIONS 2007: MAY 7 – JULY 27**

May 6 .....	Housing facilities open at 1 p.m. for 1st session students.
May 7 .....	Monday, 1st 3-, 6-, 9-, 12-week sessions begin.
May 25 .....	Friday, 1st 3-week session ends and final exams.
May 25 .....	Housing facilities close, 6 p.m.
May 27 .....	Housing facilities open at 1 p.m. for 2nd session students.
May 28 .....	Monday, Memorial Day Holiday. CLASSES DISMISSED and UNIVERSITY OFFICES CLOSED.
May 29 .....	Tuesday, 2nd 3-, 6-, 9-week sessions begin.
June 15 .....	Friday, 2nd 3-week, 1st 6-week sessions end and final exams.
June 15 .....	Housing facilities close, 6 p.m.
June 17 .....	Housing facilities open at 1 p.m. for 3rd session students.
June 18 .....	Monday, 3rd 3-week, 3rd 6-week sessions begin.
July 4 .....	Wednesday, Independence Day Holiday, CLASSES DISMISSED and UNIVERSITY OFFICES CLOSED.
July 6 .....	Friday, 3rd 3-week, 2nd 6-week, 1st 9-week sessions end and final exams.
July 6 .....	Housing facilities close, 6 p.m.
July 8 .....	Housing facilities open at 1 p.m. for 4th session students.
July 9 .....	Monday, 4th 3-week session begins.
July 27 .....	Friday, 4th 3-week, 3rd 6-week, 2nd 9-week, 12-week sessions end and final exams.
July 27 .....	Housing facilities close, 6 p.m.

**FALL SEMESTER 2007, AUGUST 22-DECEMBER 14**

Aug. 17 .....	University apartments open, 8 a.m.
Aug. 19 .....	Residence halls open, 8 a.m.
Aug 20, 21 .....	Monday, Tuesday, faculty planning
Aug. 22 .....	Wednesday, 8 a.m., classes begin.
Aug. 28 .....	Last day for Fall semester enrollment and changing classes.
Sep. 3 .....	Monday, Labor Day Holiday, CLASSES DISMISSED and UNIVERSITY OFFICES CLOSED.
Sep. 25 .....	Last day to drop first half semester classes with a W recorded.
Oct. 11 .....	Thursday, final examinations for first half semester classes and end of first half semester.
Oct. 12 .....	Friday, Mid-Semester Break. CLASSES DISMISSED.
Oct. 15 .....	Monday, second half semester classes begin.
Oct. 31 .....	Last day to drop semester classes with a W recorded.
Nov. 15 .....	Last day to drop second half semester classes with a W recorded.
Nov. 20 .....	Residence halls close, 6 p.m.
Nov. 21 .....	Wednesday, Thanksgiving Holiday, CLASSES DISMISSED.
Nov. 22, 23 .....	Thursday, Friday, Thanksgiving Holidays, CLASSES DISMISSED and UNIVERSITY OFFICES CLOSED.
Nov. 25 .....	Residence halls open, noon.
Dec. 10-14 .....	Monday through Friday, Fall semester final examinations (includes second half semester classes).
Dec. 14 .....	Residence halls close, 6 p.m.
Dec. 14 .....	Friday, Graduate School Commencement
Dec. 15 .....	Saturday, Commencement
Dec. 24-Jan.1 .....	Winter Holidays, UNIVERSITY OFFICES CLOSED.

**SPRING SEMESTER 2008, JANUARY 14-MAY 9**

Jan. 2 .....	Offices open.
Jan. 11 .....	Residence halls open, 8 a.m.
Jan. 14 .....	Monday, 8 a.m., classes begin.
Jan. 18 .....	Last day for Spring semester enrollment and changing classes.
Jan. 21 .....	Monday, Martin Luther King Jr. Holiday UNIVERSITY OFFICES CLOSED.
Feb. 15 .....	Last day to drop first half semester classes with a W recorded.
Mar. 5 .....	Wednesday, final examinations for first half semester classes and end of first half semester.
Mar. 6 .....	Thursday, second half semester classes begin.
Mar. 7 .....	Residence halls close, 6 p.m.
Mar. 10-14 .....	Monday through Friday, Spring Break, CLASSES DISMISSED.
Mar. 16 .....	Residence halls open, noon.
Mar. 28 .....	Last day to drop semester classes with a W recorded.
Apr. 1 .....	Priority date for students to submit the 2007-2008 Federal financial aid application (FAFSA) to the national processing agency.
Apr. 15 .....	Last day to drop second half semester classes with a W recorded.
May 5-9 .....	Monday through Friday, Spring semester final examinations (includes second half semester classes).
May 9 .....	Housing facilities close, 6 p.m.
May 9 .....	Friday, Graduate School Commencement
May 10 .....	Saturday, Commencement.

**SUMMER SESSIONS 2008, MAY 12 – AUGUST 1**

May 11 .....	Housing facilities open at 1 p.m. for 1st session students.
May 12 .....	Monday, 1st 3-, 6-, 9-, 12-week sessions begin.
May 26 .....	Monday, Memorial Day Holiday. CLASSES DISMISSED and UNIVERSITY OFFICES CLOSED.
May 30 .....	Friday, 1st 3-week session ends and Final Exams.
May 30 .....	Housing facilities close, 6 p.m.
June 1 .....	Housing facilities open at 1 p.m. for 2nd session students.
June 2 .....	Monday, 2nd 3-, 6-, 9-week sessions begin.
June 20 .....	Friday, 2nd 3-week, 1st 6-week sessions end and final exams.
June 20 .....	Housing facilities close, 6 p.m.
June 22 .....	Housing facilities open at 1 p.m. for 3rd session students.
June 23 .....	Monday, 3rd 3-week, 3rd 6-week sessions begin.
July 4 .....	Friday, Independence Day Holiday, CLASSES DISMISSED and UNIVERSITY OFFICES CLOSED.
July 11 .....	Friday, 3rd 3-week, 2nd 6-week, 1st 9-week sessions end and final exams.
July 11 .....	Housing facilities close, 6 p.m.
July 13 .....	Housing facilities open at 1 p.m. for 4th session students.
July 14 .....	Monday, 4th 3-week session begins.
Aug. 1 .....	Friday, 4th 3-week, 3rd 6-week, 2nd 9-week, 12-week sessions end and final exams.
Aug. 1 .....	Housing facilities close, 6 p.m.

**To call the University Operator, dial 660-543-4111.**

## SECTION I

# General Information, Services and Facilities

## INTRODUCTION

### *Your Catalog*

Your University of Central Missouri catalog contains a wealth of information for students and faculty members. Examine it carefully. Organized for your convenience, it has four main sections:

- I. General Information, Policies and Regulations, Services and Facilities;
- II. Academic Programs and Courses;
- III. Appendix with Four-year Plans for Most Degrees; and
- IV. University Personnel.

This catalog is a reliable guide for entering the University, reviewing available programs of study, planning a program, selecting courses, and meeting graduation requirements. If you are a student entering the University, keep this catalog. To the extent possible, the University will accept the degree requirements in it for an eight-year period. (See Section I, Date of Catalog for Checking Degree Requirements.)

Since the policies and programs of the University are constantly changing, no catalog can be completely up-to-date, even when it is published. Students, therefore, should review their programs periodically with an academic adviser and with departmental advisers to allow for necessary changes.

### *The University*

The University of Central Missouri is located in Warrensburg, a west central Missouri community of 16,350, 50 miles southeast of Kansas City at the junction of Highways 50 and 13. It is easily reached by automobile or AMTRAK.

Central Missouri has provided more than a century of service, having been founded in 1871 as the State Normal School for the Second Normal District of Missouri. Formal accreditation and continued growth led the campus to be recognized as Central Missouri State Teachers College in 1919, Central Missouri State College in 1946, Central Missouri State University in 1972 and the University of Central Missouri in 2006. UCM is an affirmative action EEO/ADA institution.

Including its airport and other special facilities, the University occupies more than 1,000 acres. It offers over 150 graduate and undergraduate programs for nearly 11,000 students. Its facilities are exceptional – not only its modern classrooms, laboratories, technical developments, and residence halls, but also its airport, Pertle Springs Park, and recreational and sports areas.

With a University motto of “Education for Service,” it is not surprising that the University’s faculty members have earned a reputation for teaching excellence, on and off campus. They have also distinguished themselves as scholars, achieving recognition in academic and professional organizations, in addressing learned societies, in performing in music and the arts, and in writing many books and journal articles.

### *Mission Statement*

The University of Central Missouri is a comprehensive, public university dedicated to student learning and committed to service and excellence. Through a foundation in the liberal arts, professional degree programs, personalized higher education experiences and use of current technologies, UCM prepares a diverse body of students to be lifelong learners who are proficient in their fields of study, able to adapt to a changing world and contribute to the betterment of society.

UCM serves as Missouri’s lead professional technology institution and is committed to acquiring, disseminating, and utilizing technology to enhance the University’s comprehensive educational mission and to enrich the lives of all Missourians. In fulfilling its mission, the University of Central Missouri:

- **admits** graduates of accredited high schools based on specific admission criteria, actively recruits traditionally under-represented students, and offers a strong merit-based scholarship program to attract highly capable students.
- **provides** a learner-centered academic environment which challenges individuals to participate actively in the educational process and empowers the faculty to excel in teaching while engaging in scholarship, research, creative activities and public service.
- **offers** an undergraduate foundation in the liberal arts, with an emphasis on integrating critical thinking, interaction, valuing, communication skills and technological applications into the curriculum across all disciplines.
- **provides** pre-professional, professional, academic and career-oriented undergraduate and graduate programs to meet the changing and technological needs of the workforce.
- **provides** inservice instruction for technical educators and other professionals needed to make Missouri competitive in a national and world market.
- **continues** its historical emphasis in preparing educators for Missouri.
- **provides** advanced graduate studies and research in areas of particular strength and need.
- **uses** assessment to improve teaching, learning, research and all university operations.
- **fosters** a campus community responsive to the needs of a diverse student population, provides opportunities for global awareness, and promotes an appreciation for human diversity.
- **shares** human and academic resources with schools, businesses, industries, and public agencies through partnerships and outreach activities.
- **serves** as a cultural, artistic and information center for the citizens of Missouri.

*Approved by the Board of Governors, February 2003*

## The Central Community Creed

Choosing to become a citizen of the University of Central Missouri implies an acceptance of and willingness to contribute to the common goals and purposes of the community. The Central Community Creed outlines the principles which guide the creation and maintenance of desired community at UCM. The creed also provides a framework for individual behaviors which help build our vision.

**As a member of the UCM community, I will join in building . . .**

a **learning** community by striving for academic and personal excellence and by promoting the value of education and lifelong learning;

an **open** community by creating and maintaining effective channels of communication and by accepting and respecting individuals whose values, ideas, beliefs, and life experiences may be different from my own;



a **caring** community by seeking opportunities to serve and by supporting and affirming the well-being of others;

a **just** community by behaving in ways which are ethical, honest, equitable, trustworthy, civil and respectful;

a **disciplined** community by seeking to understand and fulfill personal responsibilities, by upholding University guidelines and by working toward self and community betterment;

a **celebrative** community by observing and honoring existing traditions and by seeking and creating opportunities to enrich and define UCM;

a **purposeful** community by helping to shape and achieve the common goals of the University of Central Missouri.

The Maastricht Friendship Tower in West Park symbolizes international understanding and friendship.

## ACCREDITATIONS

The University of Central Missouri is accredited by the Higher Learning Commission (HLC) a member of the North Central Association. For information about HLC Accreditation, contact The Higher Learning Commission, 30 North La Salle Street, Suite 2400, Chicago, IL 60602-2504, telephone 800-621-7440, [www.ncahigherlearningcommission.org](http://www.ncahigherlearningcommission.org).

In addition, UCM has earned the following specialized accreditations:

- Art baccalaureates, National Association of Schools of Art and Design;
- Aviation Technology baccalaureate, Council on Aviation Accreditation;
- Business baccalaureates and graduate programs, AACSB - International;
- Chemistry baccalaureate, American Chemical Society;
- Dietetics baccalaureate, American Dietetic Association;
- Industrial Hygiene graduate and Occupational Safety and Health baccalaureate, Applied Science Accreditation Commission (ASAC) of the Accreditation Board for Engineering and Technology;
- Manufacturing and Construction baccalaureates, Electronics baccalaureate, National Association for Industrial Technology and American Council for Construction Education;
- Music baccalaureate and graduate programs, National Association of Schools of Music;
- Nursing baccalaureate and graduate programs, Commission on Collegiate Nursing Education
- Physical Education baccalaureate and graduate programs, National Association for Sport and Physical Education;
- Social Studies baccalaureate in education, National Council for the Social Studies;
- Social Work baccalaureate, Council on Social Work Education;
- Speech Pathology and Audiology master's program, American Speech-Language-Hearing Association;
- Teacher Education baccalaureate and graduate programs, National Council for Accreditation of Teacher Education and the Missouri Department of Elementary and Secondary Education;
- Technology and Occupational Education baccalaureate, Council for Technical Teacher Education.

The University has institutional membership in:

- American Association for Higher Education
- American Association of State Colleges and Universities
- American Association of University Women
- American Council on Education
- Association for Gerontology in Higher Education
- Association of American Colleges and Universities
- Association of Governing Boards of Universities
- Center for Academic Integrity
- Council for Public Higher Education for Missouri
- Council on Undergraduate Research
- Council on Social Work Education
- Institute of International Education Membership Services
- Mid-America Intercollegiate Athletics Association
- Missouri Academy of Science
- Missouri Campus Compact
- National Collegiate Athletic Association
- National Collegiate Honors Council
- National Council for Accreditation of Teacher Education
- National Council of Educational Opportunity Associations
- North Central Association of Colleges and Schools
- The Renaissance Group

# Enrollment Management

## ADMISSIONS

**High School Students.** Students admitted to the University of Central Missouri are expected to have completed a 16-unit Missouri core curriculum requirement and either have a 21 or higher on the ACT (or SAT equivalent) or an admissions index score of 100. The index score is obtained by combining high school class percentile rank and the national percentile rank of the ACT score. Other applicants will be considered on an individual basis. All admitted students will be assessed for the purpose of placement in courses which will provide an appropriate challenge for their level of preparedness and enhance their opportunity for success.

**From Other Colleges and Universities.** Students who are in good standing at other regionally accredited colleges and universities may apply for admission and transfer appropriate credit. (See Transfer of Credit.)

**GED Applicants.** General Education Development (GED) test scores may be used as a basis for admission to the University. (See GED Applications.)

**Application Fee.** A non-refundable application fee of \$30 must accompany the application. International students should remit \$50.

**University Health Policies.** Students must have documentation of receipt of two doses of measles vaccine after the first birthday or other evidence of measles immunity at the time of entry. **Proof of these vaccinations from a physician, a school health nurse, or a community health department is required.** A current medical history is requested. (Forms are available from the University Health Center.)

### Academic Preparation

Students who meet the following criteria are considered academically prepared and better able to take advantage of the opportunities available at Central Missouri: at least 16 units of college preparatory work, including these courses:

- Four units of English with an emphasis on writing skills.
- Three units of mathematics (Algebra I and beyond).
- Two units of science (one must be a laboratory course in biology, physics, or chemistry).
- Three units of social science.
- One unit of visual/performing arts.
- Three additional academic units selected from foreign language, mathematics, science, social science, English (language arts), speech, or debate.



The Office of Admissions is located on the ground floor of the Ward Edwards Building in Suite 1400. The phone number is 877-SAY-UCMO (877-729-8266).

### How to Apply

The Office of Admissions must receive all admission applications prior to the first day of class.

**During High School.** Graduating high school students who wish to enter the University of Central Missouri should apply for admission early in their senior year so that the admissions process may be completed well in advance of enrollment. Each student should submit the following credentials to the Office of Admissions:

1. A completed application for admission.
2. An official transcript mailed directly from the high school to the University Office of Admissions.
3. American College Test (ACT)/SAT scores, including subscores and composite.
4. \$30 application fee.

**After High School.** Other students who have graduated from high school but have not attended a college/university should apply as early as possible. They should submit an application, \$30 application fee, and a final high school transcript.

**From Other Colleges and Universities.** Students who wish to transfer to Central Missouri from other regionally accredited colleges and universities should (1) submit a completed application form with \$30 application fee and (2) arrange to have an official transcript sent to the Office of Admissions from each college or university previously attended. Transfer students with less than 24 hours of college credit must submit a high school transcript.

Admission requires students to be in good standing and to have a grade-point average of C (2.00). Central Missouri's Office of Admissions will make an admission decision upon receipt of unofficial university transcript(s) and will permit enrollment for one semester. However, transfer students must provide the Office of Admissions with official transcript(s) from each university attended before being permitted to enroll in subsequent semesters.

**GED Applications.** Applicants should submit a completed application form with a \$30 application fee, official GED test results and ACT/SAT scores. As soon as these documents are on file in the Office of Admissions, the University considers the applications on an individual basis.

**Readmission.** Returning students who have been out of school less than a year complete an application for readmission and follow the procedure noted above for other entering students. Students who have been out of school for one semester or longer need to submit a new application for admission to the Office of Admissions. After review of their academic records and readmission to the University, they may proceed with enrollment.



**Current High School Students**

**Seniors.** High school seniors who can meet their graduation requirements with less than a full load of classes may apply for admission to take one or more courses at Central Missouri if they can meet the following requirements:

1. Class rank in the upper half.
2. Recommendation from counselor or principal.
3. A plan for total class work not to exceed a full-time load.
4. Released time to take University classes.

The application process is the same as that for a full-time University student. (See How to Apply.)

**Juniors.** High school juniors may apply to take UCM classes during the summer before their senior year if (1) they rank in the upper half of their class and (2) are recommended by a counselor or principal.

**NOTE:** Students pursuing a high school diploma are not eligible to receive federal or state financial aid for university classes taken at Central Missouri. Before any financial aid can be authorized, all high school graduation requirements must be met and the student must be fully accepted for admission to UCM.

**Visiting College Students**

A student currently attending another college or university is permitted to enroll at UCM as a visiting college student. Enrollment under this status is limited to one semester per academic year. In order to apply, students must submit the application for admission along with a \$30 application fee.

At the completion of the course or courses at UCM, the visiting student should request that Central Missouri's Registrar's Office send an official transcript to the certifying institution. Courses taken at UCM for the purpose of transfer will apply toward a degree at UCM should regular admission status to Central Missouri be desired.

**NOTE:** Visiting students are not eligible to receive federal or state financial aid from Central Missouri. All financial assistance for which a visiting student may be eligible is processed by the student's home school, the college or university at which the student has been admitted to pursue a degree program.

UCM's sports facilities are among the best in the conference.

**Senior Citizens**

Missouri residents who are sixty-five years of age on or before August 1 of the UCM school year may enroll for courses without tuition payment. Persons seeking this scholarship shall provide documentation of age to Central Missouri and satisfy all other necessary entrance requirements including a completed application for admission. This enrollment is for non-credit (audit) purposes and may only be used for classes located on the Warrensburg campus. This scholarship may not be utilized for any Extended Campus class offerings.

Enrollment will be allowed no sooner than five days prior to classes beginning and on a space available basis only. Contact the Office of Admissions at 660-543-4290 for further information.

**Midwest Student Exchange Program**

The Midwest Student Exchange Program (MSEP) is an interstate initiative established by the Midwestern Higher Education Commission to increase the educational opportunities for students in its member states. Central Missouri is an active participant. MSEP permits legal residents of Kansas, Michigan, Minnesota, Nebraska and North Dakota to enroll at Central Missouri at a reduced rate of tuition. The number of MSEP recipients is limited, however, and is based on factors such as date of admission to Central Missouri, ACT/SAT score, etc. Complete information about MSEP eligibility is available from the Office of Student Financial Assistance, Administration Building 104.

**Non-Resident Fee Credit**

If a nonresident student pays income tax in Missouri, or is in the legal custody of a parent who pays income tax in Missouri, a credit can be provided against the nonresident student fees normally charged to the student. For information on this credit contact the UCM Office of Student Financial Assistance.

**Stateline Grant**

A graduating high school or transfer student who is eligible for admission to UCM and resides in one of the following 10 Kansas counties will be permitted to pay the equivalent of in-state tuition and fees for all classes taken on the Warrensburg campus: Atchison, Bourbon, Cherokee, Crawford, Doniphan, Johnson, Leavenworth, Linn, Miami and Wyandotte.

# INTERNATIONAL STUDENT ADMISSIONS

**The Application Process.** To apply for admission, international students file the following credentials with the Office of International Admissions.

1. A completed application form.
2. Official (or notarized) transcripts in English from each high school or college previously attended.
3. Evidence of the availability of sufficient financial support to cover all university expenses for at least one full academic year.
4. A brief statement describing educational objectives and career plans.
5. \$50 application fee.

Applicants sending applications from another country should submit credentials at least three months before enrollment; those transferring from another institution in the United States, should submit credentials at least one month before enrollment.

**Demonstration of English Proficiency.** To provide the best opportunity for academic success and appropriate course placement, international students must submit evidence of English proficiency. Prior to enrolling in regular university courses, a satisfactory score on the TOEFL is required of all international students whose native language is not English. The acceptable TOEFL score for undergraduate placement in regular university courses is 500 paper-based or 173 computer-based, 61 Internet-based TOEFL. The TOEFL requirement is waived for applicants who have completed a minimum of 60 semester hours at an accredited college or university in the United States or who are citizens of a country whose native language is English.

International students who do not meet the minimum English proficiency requirement are not permitted to enroll in regular university classes and must participate in UCM's Intensive English Program until the minimum TOEFL requirement is satisfied or they have successfully completed level six of the Intensive English Program. Institutional TOEFL results earned at other institutions are not valid at UCM.

During the orientation session, any international student whose native language is not English will undergo further evaluation for oral and written proficiency and, depending upon evaluation results, may be required to enroll in special classes designed to improve communication skills. The departmental initiated oral and



Through Intensive English Program classes conducted throughout the year, including the summers, students learn not only English, but the customs and culture of the United States.

written evaluations are waived, however, for students who present a minimum TOEFL score of 580 paper-based, 237 computer-based, or 92-93 Internet-based, or have earned a baccalaureate degree from an accredited United States college or university.

**Orientation.** All international students admitted to UCM for the first time are required to arrive on campus on a set date (typically 10 days prior to the first day of classes) for orientation and evaluation sessions.

**Health Insurance.** All international students are required to participate in the Student Health Insurance Program or provide proof of adequate health insurance from their native country.

**NOTE:** An international student normally does not qualify for federal or state financial assistance unless, the student has been designated an eligible non-citizen or a permanent resident by the U.S. Citizenship and Immigration Services (USCIS) of the Department of Homeland Security (DHS). Documentation verifying the student's citizenship status may be required by the UCM Office of Student Financial Assistance to determine the student's eligibility for financial aid.



The International Student Organization traditionally sponsors a very colorful entry in the Homecoming parade.

## PLANNED PLACEMENT

All new students and transfer students with fewer than 24 semester hours must be placed according to university policy. Criteria used to make decisions include ACT scores (sub-scores and composite), class rank and courses previously completed. Placement decisions are made to facilitate student success. Three core components are considered: reading, writing, and mathematics. A free testing option is available if a student wishes to have a placement score reconsidered.

Students admitted without a recent ACT score (within the last five years) or with a GED score need to schedule placement examinations. Students without placement criteria will be placed into introductory math, English and reading courses. For information about planned placement, contact the Office of Assessment and Testing Services at 660-543-4919.

Placement options are listed as follows: (Note: Students may be considered on an individual basis.)

**AE 1000:** (Introduction to College Writing) ACT English score 17 or below, class rank 50% or below

**ENGL 1020:** (Composition I) ACT English score 18 or above and class rank 50% or above

**ENGL 1080:** (Advanced Composition) ACT English score 26 or above and class rank 50% or above

**AE 1010:** (Textbook Reading Techniques) ACT Composite score 18 or below

**AE 1030:** (Introduction to Algebra) ACT Math score 16 or above and class rank 49% or below

**MATH 1101:** (Intermediate Algebra) ACT Math score 17 or above and class rank 50% or above

**MATH 1111:** (College Algebra) ACT Math score 20 or above and class rank 70% or above

**MATH 1620:** (Contemporary Math) ACT Math score 20 or above and class rank 70% or above

**MATH 1131:** (Calculus for Business and Economics) ACT Math score 21 or above and class rank 75% or above, high school advanced algebra and geometry or MATH 1111

**MATH 1150:** (Pre-Calculus) ACT Math score 21 or above and class rank 75% or above, high school advanced geometry and trigonometry

**MATH 1151:** (Calculus/Analytical Geometry) ACT Math score 24 or above and class rank 80% or above, high school advanced algebra, geometry and trig, or MATH 1112 or MATH 1150

## CREDITS

**Validated Credit.** Validated credit is also an option within the oral communication area of General Education (Public Speaking or Oral Interpretation), through the Modern Language Department (French, German or Spanish) and through the Mathematics Department. A student is able to earn transcripted college credit by demonstrating specific competencies. These tests or measurements vary by department and are free to the student.

**Transfer Credit.** Transfer credit is evaluated on the same basis used for Central Missouri students. Applicants who hold an Associate of Arts degree from an accredited Missouri two-year institution or have met the Missouri 42-hour General Education Core requirements are considered to have met Central Missouri's requirements in General Education, Divisions I and II. Transfer students who have completed the Missouri AA or the 42-hour General Education Core must also complete additional institutional requirements in Divisions III and IV and any major specific General Education courses. Note that the State of Missouri requires certain education courses for teacher certification.

For those with degrees other than the AA or degrees from an institution outside the State of Missouri, the University reviews transcripts and accepts applicable credit toward Central Missouri graduation on a course-by-course basis. Courses taken at a two-year college will not be applicable toward upper-level-hour requirements.

For current course equivalencies as provided by academic departments, visit UCM's web site [www.ucmo.edu/corequiv](http://www.ucmo.edu/corequiv).

**Appeal of Transfer Credit.** A student may request special consideration of transfer course work to meet degree requirements. For General Education requirements, students may submit a written appeal to the Office of Academic Advisement of their respective colleges. For major or minor requirements, the student should visit with the respective department chair to discuss possible course equivalencies or substitutions.

If a student wants to appeal the decision of the University of Central Missouri in accepting the transfer of credit from another accredited Missouri institution of higher education, an established appeal process exists. This appeal process is articulated in the publication, *Transfer of Credit From Accredited Missouri*

*Institutions of Higher Education* and can be obtained through the Office of Admissions.

### Undergraduate Enrollment in Graduate Courses.

Graduating UCM seniors may arrange, in their final semester of undergraduate study, to take courses for graduate credit, as long as their total load does not exceed 16 hours. To do so, each student submits an application for admission to Graduate School in advance of enrollment. Upon notification of admission to Graduate School, students enroll in the usual way for either undergraduate or graduate courses.

NOTE: A financial aid applicant classified as a senior should be aware that only those classes taken for **undergraduate** credit can normally be 'counted' when determining the enrollment status (full-time, half-time, etc.) to qualify for federal and state financial aid. A student may not receive financial aid to pay for graduate credit hours unless the student is fully admitted by an academic department to a graduate program of study offered at UCM.

### Concurrent Credit from Other Institutions

Students desiring extension, correspondence, examination, and/or residence credit earned from another institution while concurrently enrolled at Central Missouri should receive prior approval from the Registrar. The University reserves the right to evaluate and accept or not accept academic credits from any institution.

### Credit from Missouri Institutions

Central Missouri follows guidelines of the Council on Public Higher Education as described in *Policies and Procedures for the Review of Academic Program Proposals: New Academic Programs, Off-Site Delivery of Existing Programs and Program Changes* (Missouri CBHE, April 1997).

## Educational Tours

No more than nine semester hours of credit earned as part of tours will be acceptable toward an undergraduate degree.

## Special Credit Assessments

The total credit earned by way of Advanced Placement Examinations (AP), College-Level Examination Program (CLEP), official certification, military service, Defense Activity for Non-Traditional Education Support (DANTES), and similar assessments will not exceed 30 semester hours for a bachelor's degree or 15 semester hours for an associate degree. Credit by examination cannot be applied to any upper-level hour requirements. **A student must be currently enrolled at the University of Central Missouri and pursuing a defined program of study in order to be considered eligible for any special credit.**

The total credit earned by special credit will not exceed 30 semester hours for a bachelor's degree or 15 semester hours for an associate degree. All special credit is subject to a \$5 per hour recording fee. Students must be enrolled at the University of Central Missouri and have completed a semester to receive a transcript listing the special credit.

Students must score at or above the level established by the University to receive special credit and may only receive credits in areas for which the test score obtained was within the past 10 years and for which course equivalents have been established.

Special credit obtained from another institution is not reviewed unless an official score report is on file with Testing Services. Students who want to use special credit obtained from other institutions must first request an official score report from the test company be sent to the university. The official score report will be reviewed by the director, Testing Services, to determine eligibility for special credit at UCM.

Official scores (one sent directly from the test company to Testing Services) are to be sent to Testing Services, Ward Edwards 1114, UCM, Warrensburg, MO 64093. The test score must have been obtained within the past 10 years.

Credit by examination exams (exams administered by UCM Testing Services):

**Advanced Placement Exams (AP).** The AP exams are available to high school students. Credit may be granted for successful performance on Advanced Placement Exams. Course equivalents for AP tests are available in a number of subject areas as determined by faculty. To order official AP test results, contact Advanced Placement Examination, PO Box 6671, Princeton, NJ 08541-6671; 888-225-5427 (609-882-4118 for TTY); [www.collegeboard.com/ap](http://www.collegeboard.com/ap).

**International Baccalaureate Program (IB).** The IB program is available to high school students. Central Missouri recognizes the International Baccalaureate Diploma for admission purposes. Credit may be granted for successful performance on International Baccalaureate tests. Course equivalents for IB tests are available in a limited number of subject areas as determined by faculty. To order official IB test results, contact International Baccalaureate, 475 Riverside Dr., 16<sup>th</sup> Floor, New York, NY 10115; 212-696-4464; [www.IBO.org](http://www.IBO.org).

**\*College Level Examination Program (CLEP).** Central Missouri is interested in knowing what knowledge a student has upon entry to the University. Credit may be granted for successful performance on the CLEP exams. Course equivalents for CLEP exams are available in a limited number of subject areas as determined by faculty. For information and/or to request an official score report contact: P. O. Box 6600, Princeton, NJ 08541-6600; 800-257-9558; [www.collegeboard.com/clep](http://www.collegeboard.com/clep).

**Chauncey Group International - DANTES.** Central Missouri is interested in knowing what knowledge a student has upon entry to the University. Therefore, only DANTES tests taken after high school graduation are reviewed for possible credit. Credit may be granted for successful performance on DANTES tests. Course equivalents for DANTES tests are available in a limited number of subject areas as determined by faculty. To order official DANTES test results, contact The Chauncey Group International, ATTN: DSST Program/Transcript Service, 664 Rosedale Rd., Princeton, NJ 08540; 887-471-9860; [www.getcollegecredit.com](http://www.getcollegecredit.com).

**\*Math-for-Credit.** Central Missouri offers two Math-for-Credit exams: MATH 1111 College Algebra and MATH 1620 Contemporary Math. These locally developed exams are similar to course finals and are available only to University of Central Missouri students.

For additional information, contact Testing Services, Ward Edwards 1114, 660-543-4919; email [testingservices@ucmo.edu](mailto:testingservices@ucmo.edu); or visit [www.ucmo.edu/testingervices](http://www.ucmo.edu/testingervices).

**Credit for Official Certifications.** In certain instances, academic departments will evaluate official certifications, licenses, and diplomas granted by fully accredited national and state boards and officially recognized professional organizations to determine whether or not undergraduate credit may be assigned by the Provost and Vice President for Academic Affairs toward the fulfillment of degree requirements in specific major or minor related areas. Appropriate departments of the University reserve the right to test competencies and performances in these areas and to determine the hours and the nature of the credit to be assigned, if any. All requirements as stated in the *Undergraduate Catalog* must be met before a degree is conferred.

**Military Service-Related Credit.** Credits earned by service personnel in specialized training programs of the United States armed services under certain circumstances may be accepted. The guidebook published by the American Council on Education is used to determine the credit value. The Division III Personal Interaction requirement of the General Education Program may be met by veterans upon presentation of evidence of 12 months or more active military training in a U.S. service. Students who have completed six months of active military service, although not considered veterans, may meet two semester hours of the physical education requirement through presentation of appropriate evidence of their service experience. U.S. Armed Forces Military Credit is reviewed by the Registrar's Office.

## HOUSING

The University of Central Missouri requires first-year students to reside in University housing. For housing purposes, upperclass status is determined by the completion of 24 or more credit hours of course work, on-campus residence at UCM for one academic year, or the student's being 21 years of age or older.

### **On-Campus Housing**

The University of Central Missouri provides a variety of on-campus housing opportunities. Except for freshmen, who must receive permission to live in locations other than residence halls, on-campus housing is optional. Our accommodations attract a substantial number of upperclass students. Early application for housing is wise.

**Arranging for Housing.** Contact the Office of University Housing, L23 Ellis Complex, or call 660-543-4515 for applications and information. Assignments are made according to agreement date. A deposit of \$100 must accompany the application. Apartments will require an additional deposit of \$100 or \$200 (depending on location) prior to occupancy. This deposit may be forfeited for late cancellation, damage to University property, outstanding account or other agreement violations.

Students with requests due to disability will need to provide Housing or Accessibility Services with appropriate professional verification supporting the request. Six to eight weeks notice is recommended.

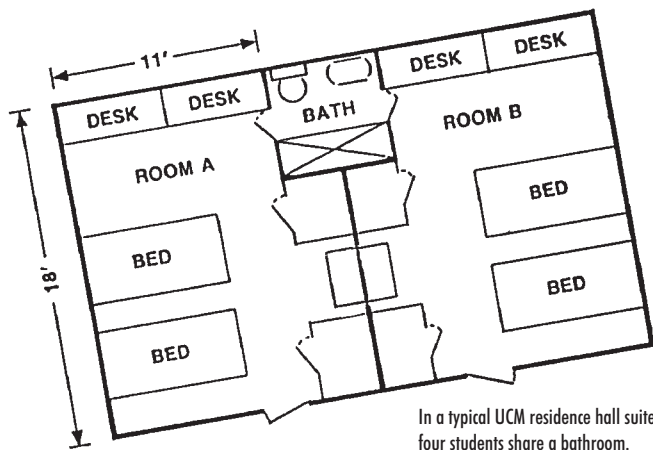
**Residence Halls.** Residence halls are located on the east and west sides of the campus. Students may choose from a variety of housing options. Most halls are air-conditioned.

First-year students are required to live on campus. First-year students are also required to have a meal plan. Freshmen (under 21 years) are assigned to First-Year floors. These environments are carefully designed to help acclimate the new student to the UCM campus. Special staffing, educational and social activities, faculty involvement, student government, and access to a variety of campus resources create an environment where student success is emphasized.

Students with 24 or more credit hours or those over 21 years old may live in upperclass housing. Residence hall accommodations offer the student convenience, opportunities for involvement and a variety of choices. Residence hall agreements are for a full academic year. Single rooms are available at an additional cost. Meal plans for upperclass students are available, but optional.

In the residence halls, students in each pair (suite) of rooms share a private bath. Each student room has a phone jack, cable television capability and internet access. All rooms are furnished with desks, beds, mattresses, chairs, draperies, a chest of drawers and mirror. However, residents may bring additional items to make their rooms more home-like. Residents have ready access to coin-operated washers and dryers, but they must furnish their own irons and fireproof ironing boards. Mail is delivered regularly to the main desk at each residence hall. Lounge areas and recreation facilities are open to all residents. Residence hall libraries and study areas provide a quiet place for reading and study.

The University tries to honor student preferences in housing assignments. Room changes will be permitted beginning on designated dates during the first part of each semester. Housing agreements for students who do not check in are canceled after 5 p.m. on the first day of classes, unless students have made arrangements to arrive late.



**Family Housing.** Apartments are available for married couples with or without children and single parents with children living with them full time. These apartments are available for 12-month accommodations.

**Meals.** Students in first-year halls must be on a meal plan. Students may choose from a variety of meal plan options. Full-meal service is available daily. The Elliott Union provides additional on-campus dining alternatives. The food service accommodates students with special dietary needs. This service requires a doctor's request.

**Fraternities and Sororities.** Members of seven sororities live in Panhellenic Hall. Similarly, the Fraternity Complex accommodates eight fraternities. Other sororities and fraternities are housed or provided Chapter Room space in South Todd Hall.

**Graduate/Upperclass Residence.** Special accommodations have been designated in residence halls and/or University apartments for students 21 years of age or older, for those who have completed at least four semesters, or for those enrolled in graduate school.

**Twelve-Month Accommodations.** Twelve-month housing accommodations are available for students seeking year-round housing.

### **Insurance and Safety**

The Department of Public Safety and the Office of University Housing work together to provide a safe campus environment. However, the University is not responsible for loss of, or damage to, personal property. Parents and/or students are urged to arrange privately for insurance coverage of personal property.

### **University Conference Center**

The University Conference Center is located on Anderson Street, east of the main campus. A variety of suites and rooms are available for guests of the University. For reservations, call the University Conference Center at 660-543-4034.

## NONDISCRIMINATION/EQUAL OPPORTUNITY STATEMENT

The University of Central Missouri actively follows a policy of nondiscrimination with regard to age, race, color, religion, sex, national origin, sexual orientation, marital status, Vietnam Era veterans, and persons with handicaps and disabilities.

This policy applies to the awarding of student financial aid, and the recruitment, admission, housing, placement, and retention of students, faculty and staff. The University complies with the regulations implementing Title VI and Title VII of the Civil Rights Act of 1964 regarding race, color, national origin, religion and sex discrimination; Title IX of the Education Amendments Act of 1972 regarding sex discrimination; the Americans with Disabilities Act and Section 504 of the Rehabilitation Act of 1973 regarding discrimination based on disabilities and handicaps; the Age Discrimination in Employment Act; and other state and federal laws and regulations.

Persons having inquiries concerning the University's compliance with the regulations implementing any of the above are directed to contact the General Counsel, Administration 208, 660-543-4730, or the Director of Human Resources, Administration 101, 660-543-4255, the University of Central Missouri, Warrensburg, MO 64093. Toll-free numbers for Relay Missouri are 800-735-2966 for TTY, and 800-735-2466 for voice callers.



UCM enjoys a student population that is 8 percent multicultural and 4 percent international. Last year students from 44 states and 59 foreign countries attended Central Missouri.

### Institutional & Financial Information

Federal law requires institutions of higher education, including the University of Central Missouri, to inform prospective students, faculty and staff of institutional and financial information. This information is available at [www.ucmo.edu/rsearch/ir/toc.htm](http://www.ucmo.edu/rsearch/ir/toc.htm).

### First-Year Residential Requirement Policy

#### I. Purpose

The purpose of the First-Year Residential Requirement Policy is to enhance each student's educational experience and personal development.

#### II. Policy

First-year students are required to live in university housing. Students whose circumstances meet one of the exemptions or have changed since signing the Housing Agreement may apply for an exemption to this requirement. A list of exemptions may be obtained from the Office of University Housing. Exemptions may be granted based upon acceptable documentation submitted to the Director of University Housing.

#### III. Procedures

Reasons other than those listed may qualify as exemptions based on the determination and at the discretion of the Director of University Housing. The Vice President for Student Affairs shall review appeals of these determinations and the decision upon any such appeal is a final action.



The price of a residence hall room includes local phone service, cable service, Internet access, and utilities. A room comes furnished with two twin beds, one dresser, two desks, two chairs, and a trash can.

# COSTS

## *Fees and Expenses*

Housing, food service, and instructional fees are assessed for payment prior to the beginning of the semester. Rates are set by action of the Board of Governors and are subject to change. Information regarding rate changes is available from the Office of Student Accounts or by visiting [www.ucmo.edu/revenue](http://www.ucmo.edu/revenue).

### **Supplemental Course Costs**

Certain specific courses and programs require supplementary fees, materials, supplies, and activities at additional expense to the student.

## *Determination of Missouri Residency for Fee Purposes*

The Missouri Department of Higher Education has issued regulations to be applied by Missouri universities to determine the resident status of students. This regulation is available at *6 Code of State Regulations 10-3.010*. The burden of proof in establishing residency rests with the student. Students who are legal minors or tax-dependents whose parents reside outside the State of Missouri are not eligible for resident fee paying status. One can be classified as a resident for fee purposes immediately upon moving to the state if the move is to accept full-time employment (or if one is the dependent of someone who came to Missouri to accept full-time employment.) In other situations continuous domiciliary presence in the state for 12 months must be proven AND sufficient proof of intent to be domiciled in Missouri permanently must be provided.

Residency is determined by each educational institution and residency for attendance at a community college or obtaining a driver's license or serving in the Missouri Guard will not necessarily mean a residency determination for fee purposes.

**Applications and additional information is available for prospective students in the Admissions Office, for undergraduates in the Registrar's Office and for graduate students in the Graduate School Office.**

## *Financial Responsibility*

Students have the primary responsibility for paying all charges incurred due to class enrollment, room and board choices, departmental charges and fines. Payment for a semester's cost is due in full approximately ten (10) days before the semester begins. Full payment dates are published in the *Student Planner/Handbook*, on the Office of Student Accounts web site and on the student billing statement. Non-payment of charges or failure to make payment arrangements by the due date will result in classes being dropped. Late payment fees are added to the student bill each month that payment is not made when due. Collection costs are assessed if collection action becomes necessary. For additional information regarding the payment of student accounts, visit [www.ucmo.edu/revenue](http://www.ucmo.edu/revenue).

## *Refund Policy*

**Reduced Load.** Refunds of **instructional fees** for student-initiated reduction in class load will not be processed until after the fourth week of classes. The following schedule for such refunds will apply for semester hours dropped:

- First week of classes: full refund.
- Second week of classes: 50%.
- Third week of classes: 25%

**No refund of instructional fees will be made for student-initiated reduction in class load after the third week.**

If a fee amount would be reduced due to load changes caused by failure of classes to materialize or class cancellation by the University, a full refund for that class will be made.

NOTE: A federal financial aid recipient who drops to less than half-time enrollment status should be aware that depending on his/her class attendance records, some or all of the assistance credited to the student's UCM account for the semester may have to be reversed.

**Withdrawal.** Students who find it necessary to **withdraw from UCM** should initiate the procedure in the Office of Student Affairs. The following refund schedule for instructional fees applies to students who are **not** financial aid recipients.

- Withdrawal prior to the announced deadline for full payment of all charges for the current semester: full refund.
- Withdrawal during second week of classes: 50%
- Withdrawal during third week of classes: 25%

**No instructional fees are refundable if the student withdraws after the third week of classes.**

NOTE: In accordance with federal regulations, a financial aid recipient who officially or unofficially withdraws from UCM will be required to repay some or all of the grant and loan assistance credited to his or her UCM account, based on the date of withdrawal and last date of class attendance for the semester. A copy of the withdrawal policy is available from the UCM Office of Student Financial Assistance, Administration 104.

**Refund Appeal.** A student who believes that a refund greater than the established schedule should be issued may submit a written request to the Office of Student Affairs for complete withdrawals and to their college Office of Academic Advisement for reduced load appeals. The reasons and unusual circumstances believed to justify a larger refund must be outlined in the written request. All requests for refunds must be submitted within two weeks of the end of the semester for which the fees were paid.

# FINANCIAL ASSISTANCE

To help an individual reach his or her educational goals, the University of Central Missouri offers a variety of federal and state grant, loan, and employment assistance, much of which is awarded on the basis of a student's calculated financial need.

The Office of Student Financial Assistance annually processes over \$45 million in assistance to nearly two-thirds of the students who attend Central Missouri. Each student's family and economic situation is recognized as unique, and every financial aid application is examined on an individual basis. The number of applications for financial aid, however, almost always exceeds the total amount of assistance available. Therefore, it is very important for each applicant to:

- apply on-time (by April 1) each year
- comply with all financial aid instructions, policies, and requests for follow-up information and documents
- contact the Office of Student Financial Assistance with any questions or concerns:

In person - Administration 104  
 Telephone - 660-543-4040  
 Fax - 660-543-8080  
 Email - [finaid@ucmo.edu](mailto:finaid@ucmo.edu)

Federal and state financial assistance may be used to help pay direct educational expenses, such as fees, books/supplies, and housing/meal plan charges, as well as variable living costs, such as off-campus housing, food, transportation, child care, and other personal costs related to attending UCM. In accordance with federal and state regulations, the responsibility for meeting these costs lies primarily with the student and his or her family. However, financial aid from one or more of the following programs can be awarded to supplement the family's financial contribution.

## *Types of Financial Aid*

**Grants** (Federal Pell Grant, Supplemental Educational Opportunity Grant, and several state programs) are types of aid/assistance that do not have to be repaid.

**Loans** (Federal Stafford Loan, Perkins Loan and several state programs) are types of aid that must be repaid, but normally not until after the student graduates, withdraws, or drops to less than half-time enrollment status.

**Employment** (Federal Work-Study) assistance enables a student to earn a portion of his or her educational resources through part-time work on-campus and off-campus. Information about available Federal Work-Study positions, as well as University funded student employee positions, are available at the UCM Office of Career Services, Elliott Union 302.

## *How to Apply*

To apply for the above types of federal and state financial aid, a student must submit a **Free Application for Federal Student Aid (FAFSA)**. A student files the FAFSA online, using **FAFSA-on-the-Web**, at [www.fafsa.ed.gov](http://www.fafsa.ed.gov). There is no charge to apply.

After submitting the FAFSA, a financial aid applicant may be required to provide supporting documents or clarifying information to the UCM Office of Student Financial Assistance. If required to do so, the applicant will be contacted by UCM, and should respond promptly.

## *Financial Need*

A student's calculated need for federal and state financial assistance is determined by a careful analysis of the results of the applicant's FAFSA data. Once this calculation has been completed, one or more types of financial aid are awarded to help meet the individual's level of need. The student is then notified of his/her award package, which appears at the university portal, [www.ucmo.edu/portal](http://www.ucmo.edu/portal). The notification process begins each spring for UCM's earliest applicants and continues throughout the year.

## *Scholarships*

Nearly \$5 million in merit-based scholarship aid is awarded annually to students who demonstrate academic excellence, leadership, special talents, or potential in a specific field of study. UCM also offers scholarships to children of Central Missouri alumni and other special groups.

To be considered for an undergraduate scholarship, a student must:

1. be admitted to UCM,
2. meet minimum qualifying criteria,
3. not be on academic probation,
4. be a full-time enrolled undergraduate student (12 or more credit hours). A scholarship recipient may enroll for less than 12 hours and be considered to receive a proportional amount of an award under the following conditions:
  - be enrolled in a UCM-approved internship or be student teaching, or
  - be a last-semester senior completing a bachelor's degree program
5. earn a minimum of 12 undergraduate hours per semester at UCM.

If a student is the recipient of more than one University of Central Missouri or State of Missouri scholarship, the combined total may not exceed the cost of education at UCM. Scholarships may also be adjusted or canceled if the recipient fraudulently misrepresents any information on a UCM application or engages in serious misconduct which warrants substantial disciplinary penalty.

For information about scholarships associated with specific majors, students should contact the academic department offering the major. For general undergraduate merit scholarship information, visit [www.ucmo.edu/scholarships](http://www.ucmo.edu/scholarships) or the UCM Office of Student Financial Assistance.

## *Other Assistance*

Financial assistance other than federal aid is also available from the University of Central Missouri. Many scholarships from a wide variety of sources are awarded each year to undergraduate and graduate students. Information and applications may be obtained from the Office of Student Financial Assistance, Administration 104. The State of Missouri also offers grant and loan programs to eligible undergraduate students. Students initiate the application process for these opportunities by submitting the FAFSA online at [www.fafsa.ed.gov](http://www.fafsa.ed.gov). Financial aid recipients should be aware, however, that receiving 'external' types of financial aid or educational benefits can result in an adjustment to the federal aid that may have already been awarded and/or disbursed.



### ***Satisfactory Academic Progress***

Federal regulations require that every student who wishes to **continue** receiving federal financial aid (after having completed at least one semester at UCM) must maintain satisfactory academic progress toward the completion of his or her degree or certification program. Satisfactory academic progress for federal financial aid purposes is defined as successfully completing at least two-thirds of the credit hours attempted during a school year. In addition, undergraduate students with 60 or more credit hours must maintain at least a 2.00 cumulative grade-point average to remain eligible for federal assistance. Students should be aware that certain state financial assistance programs require a recipient to maintain different standards of satisfactory academic progress.

### ***Short-Term Loans***

The University of Central Missouri realizes that many students are dependent upon federal financial assistance to satisfy the costs of attending UCM. However, it is important to have some money on hand when starting classes each semester to help pay incidental costs during the first few weeks of classes. If an emergency arises, a student can apply for short-term loan funds at the Office of Student Financial Assistance, Administration 104. This assistance must normally be repaid within 60 days. A service charge of \$10 is levied to borrow from the UCM short-term loan fund.

### ***Veteran Services***

The UCM Veteran Services Office assists more than 450 students annually. This office is located in Administration 104 and acts as a liaison between students requiring veteran services and the Veterans Administration offices in St. Louis and Kansas City.

Support is provided to students enrolled at Central Missouri who are in the Military Reserve/National Guard (Chapter 1606), on active duty or no longer in the military but eligible for VA educational benefits (Chapter 30), Veterans Vocational Rehabilitation students (Chapter 31), dependents of military personnel (Chapter 35), and personnel who contributed to the Veterans Educational Assistance Program (Chapter 32).

For information and assistance in completing and maintaining the proper documents to receive VA benefits, a student should contact the Veteran Services Office in person, by telephone 660-543-4983 or email [finaid@ucmo.edu](mailto:finaid@ucmo.edu).

# STANDARDS AND REGULATIONS CONCERNING UNDERGRADUATE STUDENTS

## *Philosophy of Academic Standards*

To maintain standards which foster an atmosphere of academic excellence:

Central Missouri admits individuals who have demonstrated a potential for successful academic achievement in a university community. Admission follows a policy of nondiscrimination with regard to age, race, color, religion, sex, national origin, sexual orientation, marital status, Vietnam Era veterans, and persons with handicaps and disabilities.

Central Missouri retains students who, through periodic University-administered assessment and evaluation, meet or exceed established University academic standards.

Central Missouri grants degrees to students who fulfill prescribed program requirements and meet or exceed the minimum academic standards established by the University and the State of Missouri.

Central Missouri assesses former students to determine to what extent the university experience has helped them attain an intellectual orientation by which they can develop, throughout their lifetimes, the capacity for self improvement, career achievement, and responsible living in a free society.

## *Student Responsibility*

Central Missouri, through action of the faculty, administration, and Board of Governors, establishes and maintains requirements for its various degrees. These requirements must be completed before a degree is granted. The staff of the University will assist students in understanding and meeting these requirements, but the individual student ultimately is responsible for fulfilling them. Therefore, it is important for each student to be familiar with the requirements pertaining to the degree being sought and to remain currently informed throughout the period of enrollment. The academic advisers, Registrar and faculty can be of assistance in this process.

## *Academic Load*

The normal load per semester for an undergraduate student is 15 or 16 semester hours. A full-time undergraduate student is one pursuing 12 or more semester hours of work per semester or nine semester hours in the summer session. The maximum academic load is 18 semester hours; however, upperclass students in good academic standing may enroll for as many as 19 semester hours without special permission. Freshmen and sophomores desiring to exceed 18 semester hours must have an application for overload approved. Such application should be initiated with the Director of Academic Advisement if there is not a declared major or with the appropriate department chair if a major has been declared. Students on academic probation may not enroll in more than 15 semester hours during any semester of academic probation.

If students are enrolled for course work at other institutions of higher education while concurrently enrolled at Central Missouri, the total number of semester hours taken in any enrollment period may not exceed the maximum specified for a full-time, resident student at Central Missouri.



## *Summer Course Load Policy*

Maximum course loads for summer are six hours during a three-week session and 12 hours for the entire summer semester. Undergraduate students may enroll for more than 12 hours with the approval of the department chair.

## *Academic Standards*

**Grading System.** The grading system used in evaluating a student's work is as follows:

- A – Work of marked excellence.
- B – Work of superior quality.
- C – Work of average quality.
- D – Work of inferior quality.
- F – Failure to do work of passing quality.
- NC – No credit granted for course.
- P – Work of passing quality in a Pass/Fail Course.
- U – Course not completed for justifiable reasons.
- W – Course dropped during withdrawal period.\*
- WP – Work was of passing quality at time of approved withdrawal.\*
- WF – Work was of failing quality at time of approved withdrawal.\*

\* For more information about the grading system, refer to the section Changes in Schedules, and either the Calendar in this catalog or the Student Planner/Handbook.

**Unfinished Work.** An instructor may report a semester grade of U when, for justifiable reasons, the student has not completed the work of the course. During the next semester (Fall, Spring or Summer) the U becomes an F unless the requirements of the course have been satisfactorily completed or the course is of an individualized nature, e.g., thesis, research report, or similar investigation. A student having more than one U grade is expected to reduce his/her course load accordingly in order to complete the unfinished work. It is the student's responsibility to contact his/her instructor concerning the removal of the U grade.

**Grade Requirements for Acceptance Into Programs.** In addition to the general requirements applicable to all areas, several academic programs specify special qualitative grade standards. For example, a cumulative average of 2.50 is necessary after taking specified courses in order to be admitted to the Teacher Education Program and the Nursing Program, and a cumulative average of 2.25 is necessary after taking specified courses to be admitted to B.S. in Business Administration degree programs in the Harmon College of Business Administration. Such special standards are listed under the major programs.

**The Pass/Fail Program.** The primary objective of the Pass/Fail opportunity is to encourage students to experience courses they normally might avoid because of lack of confidence or initial competence. Courses taken for Pass/Fail must satisfy one of the following three criteria and procedures:

1. An undergraduate student may choose to take any free elective for Pass/Fail credit. A free elective is a course which is not a requirement or elective for the student's major or minor and is not used to satisfy General Education requirements. A student must designate the course or courses to be taken Pass/Fail by the end of the fifth week of classes. A course designated as Pass/Fail may not be changed to a graded course after that date. Instructors will not be informed that a student is taking a course for Pass/Fail credit. Students who earn an A, B, C or D will have a P (Pass) recorded on their transcripts and the grade will not be calculated in the grade-point averages. Students who fail will have an F (Fail) recorded on their transcripts and the F will be calculated in their grade-point averages. In cases of academic dishonesty, an academic F may be recorded at the discretion of the instructor. A student may elect to count a maximum of nine such Pass/Fail semester credits toward graduation requirements.
2. A department may elect to offer an internship or practicum for Pass/Fail credit only. A student will either have a P (Pass) or an F (Fail) recorded on the transcript. A P (Pass) will not be calculated in the student's grade-point average while an F (Fail) will. Courses that are offered only for Pass/Fail credit must be so designated in this catalog.
3. Students who plan to study at an institution outside the U.S. may elect to have all or none of the courses completed abroad count as Pass/Fail credit. If they elect to take these courses for Pass/Fail credit, they must provide written notification to the Executive Director of International Programs before beginning study abroad. A student who earns an A, B, C or D will have a P (Pass) recorded on the transcript and the grade will not be calculated in the student's grade-point average. A student who fails will have an F (Fail) grade recorded on the transcript, and the F will be calculated in the grade-point average. This policy does not apply to study tours sponsored or recognized by Central Missouri.

**Audit Courses.** A student may audit a class for no grade and no credit. Acceptable performance, attitude and attendance as determined by the instructor in charge are expected. Regular fees and enrollment procedures are required. Courses taken as an audit must be so designated prior to the final date for changing class schedules as announced in the official calendar. Audited classes do not fulfill requirements for load consideration, nor do they count as part of a student's enrollment status for receiving federal or state financial aid, or VA educational benefits.

**Computation of Grade Average.** In order to compute the cumulative grade-point average, total honor points earned are divided by total hours attempted. Each semester hour is assigned a grade-point value as indicated below:

1. Each semester hour of A is assigned 4 honor points.
2. Each semester hour of B is assigned 3 honor points.
3. Each semester hour of C is assigned 2 honor points.
4. Each semester hour of D is assigned 1 honor point.
5. Each semester hour of F or WF is assigned 0 honor points.
6. Each semester hour of P, W, WP, or NC is not considered.
7. Each semester hour of U is not considered until complete.

**Repeat Enrollment in Courses.** A student receiving a grade lower than B in an undergraduate course may repeat the course at UCM. The higher of the two grades will be utilized in computing the cumulative grade-point average; however, the lower grade will remain as a matter of transcript record. This process is NOT AUTOMATIC AND WILL BE INITIATED ONLY UPON A STUDENT'S REQUEST and a subsequent review by the Registrar's Office.

*The following specific stipulations apply to the above repeat enrollment policy:*

1. Courses taken at another institution and subsequently repeated at the same institution are transferred using the same rules applicable for Central Missouri courses which have been repeated. Courses taken at another institution and repeated at Central Missouri with a passing grade use the same rules applicable for Central Missouri courses which have been repeated. Courses taken at Central Missouri and then repeated at another institution will have the grades averaged.
2. A course may be taken more than twice only if a grade of F has been earned both times unless departmental requirements stipulate otherwise.
3. If two consecutive grades of D are earned, or if two consecutive grades of F are earned, only the second will be used in computing the cumulative grade average.
4. If it becomes necessary for a course to be taken a third time, the second F will not be discounted but will be averaged into the cumulative grade average.
5. A course may not be repeated for the purpose of raising a grade average if a more advanced course in a sequence has been completed.
6. Repeating a course under the Pass/Fail option will not negate the initial grade received.
7. Credit hours for repeated courses will be counted only once in the number of course hours earned toward a degree.

**Dean's List.** To be eligible for the Dean's List, a student must be an undergraduate who earns 12 or more semester hours of residence credit with a grade-point average for the semester of 3.50 or above.

**Students in Good Standing.** Central Missouri students are in good standing if eligible to enroll for classes.

**Academic Probation.** A student whose Central Missouri or cumulative GPA or total UCM GPA drops below 2.00 will be placed on academic probation. A transfer student will be placed on academic probation at the time of admission if his/her cumulative GPA is less than 2.00. Students placed on academic probation may continue to enroll in classes. Students are encouraged to seek advice from their college Office of Academic Advisement about future enrollments. Students on academic probation may not enroll in more than 15 semester hours during any semester of academic probation.

**Removal From Probation.** A student placed on academic probation will be continued on probation until both the total UCM GPA and the cumulative GPA are 2.00 or higher, unless for academic reasons he/she is suspended or dismissed. When a student on academic probation raises both their UCM GPA and their cumulative GPA to 2.00 or above, the student is removed from probation. Transfer credit may not be used to raise a total UCM GPA.

**Academic Suspension.** A student on academic probation will be suspended from Central Missouri at the conclusion of his/her next semester/enrollment period if his/her semester/enrollment period GPA is less than 2.00. A transfer student who was admitted on probation will be suspended from Central Missouri at the conclusion of his/her first semester/ enrollment period if his/her semester/ enrollment period GPA is less than 2.00. Academic suspension is for a period of one full semester, after which, students may apply for readmission.

**Academic Dismissal.** A student who has been suspended and later readmitted and continued on probation but does not achieve a semester GPA of 2.00 or higher in a subsequent semester/ enrollment period will be dismissed. Academic dismissal is for a period of one calendar year, after which, a student may apply for readmission.

**Readmission.** The readmission of students who have been suspended or dismissed from Central Missouri is not automatic. Such students may apply for readmission as follows:

1. Students who have been suspended may apply for readmission after one semester excluding Summer Session. Students who have been dismissed may apply for readmission after one calendar year. Requests for readmission should be sent to UCM's Office of Admissions.
2. A student with extenuating circumstances who has been suspended or dismissed may apply for immediate (or early) readmission. A letter should be written to UCM's Office of Admissions. This letter should include (1) a request for readmission, (2) an explanation of any extenuating circumstances for earlier poor performance, and (3) an explanation of activities and plans which may lead to improved scholastic performance at UCM. Other substantiating evidence may also be submitted.

**Course Prerequisites.** A student is expected to have satisfied prerequisites required of any course in which he/she is enrolled. Students without prerequisites should not enroll in these classes and may be dropped from the class rolls if they do enroll. A student will not be allowed to enroll in a course that is a prerequisite to a course he/she has already successfully completed with a grade of C or better, except as an audit enrollment.

**Class Attendance.** Students are expected to attend all lectures, seminars, laboratories, and field work for each registered class and to complete all work assigned by the instructor for the course. Advance arrangements for unavoidable absences should be

made with the instructor whenever possible. Neither absence nor notification of absence relieves the student of the responsibility for meeting all course requirements.

The only arrangements at UCM whereby a student may enroll and receive credit while not actively in class attendance are those under the direct and regular supervision of a UCM faculty member assigned to a student who has enrolled for a readings, thesis, special problems or a similar arranged course.

Make-up of course requirements missed because of extenuating circumstances shall be worked out between the instructor and the student upon the student's initiative. Instructors are required to allow for such make-up when a student is absent because of participation in approved University activities, University programs (that the student is required to attend) or when absence is required by order of a qualified physician. A student must contact his/her instructor on the first day the student returns to class. The instructor may have special attendance/requirement policies for particular classes, whenever those policies are not in conflict with the student's right to make up missed requirements as described above.

When absent for three consecutive days or more, a student may ask the Office of Student Affairs to send an informational note to his/her instructors; however, excused absences may only be granted by the instructor of the class.

The Student Health Center does not provide medical excuses to students for the purpose of being excused from class. The only medical excuse provided will be for those students who have a physical disability and cannot participate in a class activity. This excuse will be for the activity only and not from attending the class.

An enrolled financial aid recipient who fails to attend classes (or stops attending) may be required to repay some or all of the assistance credited to his/her UCM account for the semester.

**Changes in Schedules.** Changes in class schedules should be made during the Drop and Add period (first five class days of the semester). Such changes will not be entered on the permanent record. Courses may not be added after the initial Drop and Add period.

During the Withdrawal period (second week through the tenth week), a student may withdraw from any full-semester class using the self-enrollment system. Students may wish to consult with an academic adviser and/or the course instructor prior to withdrawal. A grade of W is recorded as the final grade. Exception to this will be effected in the event that a failing grade is given for cause such as academic dishonesty. In this instance, a WF will be recorded. After the tenth week of the semester, withdrawal from a class is normally not allowed. In enrollment periods other than a semester, withdrawal from classes is not permitted during the last one-third of the period.

**WITHDRAWAL FROM THE UNIVERSITY.** Students who leave the University must officially withdraw through the Office of Student Affairs. In the event that a student fails to initiate this process, his/her withdrawal is not considered complete and grades of F will be recorded for failure to attend classes. Withdrawal during the last five weeks of a semester while receiving a failing grade in a course will result in the recording of a WF on the permanent record. Regulations governing credit for room and board payments are found in the housing contract. (See Refund Policy for information on the credit of fees.) A financial aid recipient who officially or unofficially withdraws from UCM will be required to repay some or all of the grant and loan assistance credited to his or her UCM account, based on the date of withdrawal and last date of attendance for the semester.

# REGULATIONS APPLYING TO UNDERGRADUATE DEGREES

## Course Numbers

The courses offered on the undergraduate level are divided into five categories.

In general, the following may be considered as guidelines:

**0000** level courses are primarily used for skills development and are not used to satisfy degree requirements.

**1000** level courses are primarily for freshmen students.

**2000** level courses are primarily for sophomore students and those students with essential prerequisites or backgrounds.

**3000** level courses are primarily for junior students and those students with essential prerequisites or backgrounds.

**4000** level courses are primarily for senior students and those students with essential prerequisites or backgrounds.

Graduate level courses cannot be applied to the undergraduate degree programs.

## Classification of Students

Freshmen are defined as those students who have completed zero through 29.5 semester hours of college credit. Sophomores are those who have completed 30 through 59.5 semester hours. Juniors must have completed 60 through 89.5 semester hours. Seniors are defined as all students who have completed more than 89.5 semester hours.

## Upper-level Credit

Candidates for bachelor's degrees must satisfactorily complete a minimum of 40 semester hours of upper-level work (3000 and 4000 level courses) excluding special credit. Twelve upper-level hours must be in the major subject. Each baccalaureate degree candidate must have earned upper-level course work at UCM in their major and their minor.

## Degree Audit Reporting System (DARS)

The Degree Audit Reporting System (DARS) produces a report form that reflects a student's degree requirements in a given catalog year, applicable transfer credit and progress toward graduation. This report also designates the number of credit hours earned, both cumulative and Central Missouri's grade-point average, and a listing of courses completed. Deviations from the major or minor requirements must be approved in writing by the department chair and submitted to the Office of the Registrar to be reflected on the DARS. A student may access this report online or request it at any time from the Office of Academic Advisement.

## Grade-point Average

In order to receive a degree, a student must earn a minimum grade-point average of 2.00 (C) in each of the following areas unless otherwise noted for the major/certification:

1. All work attempted at Central Missouri and on all work attempted.
2. All work taken to satisfy major requirements at Central Missouri and on all major work attempted at all colleges and universities attended.
3. All work taken to satisfy minor requirements at Central Missouri and on all minor work attempted at all colleges and universities attended.
4. All courses bearing the prefix of the major attempted at Central Missouri and at all colleges and universities attended.

5. All courses bearing the prefix of the minor attempted at Central Missouri and at all colleges and universities attended.

Each student must review the degree program for all minimum GPA requirements. For example, for teacher certification degree programs minimum cumulative grade-point averages of 2.50 are required. For B.S.B.A. degree programs, a minimum cumulative grade-point average of 2.25 based upon total hours attempted is required.

## Grade Appeals

Students appealing a grade have one calendar year from the time the grade was issued to appeal any grade changes. These appeals should be directed to the instructor who taught the course in question. Please refer to the current Grade Appeal Procedure in the UCM Planner-Handbook for information regarding this procedure.

## Amendment of Education Records

1. If a student believes the education records relating to the student contain information that is inaccurate, misleading, or in violation of the student's rights of privacy, he or she may ask the University to amend the record by contacting the University Registrar.
2. The University shall decide whether or not to amend the record as requested within a reasonable time after the request is received.
3. If the University decides not to amend the record as requested, the University Registrar shall inform the student of its decision and of his or her right to a hearing under The Family Educational Rights and Privacy Act.

NOTE: The Amendment of Education Records is NOT the process used for a grade appeal. Please refer to the current Academic Appeal Procedure in the UCM Planner-Handbook for information regarding this procedure.

## Graduation with Honors

To be eligible for graduation with honors a student must have earned both cumulative and Central Missouri grade averages of 3.50 and must have completed a minimum of 30 semester hours of credit at UCM. Those with a cumulative and Central Missouri grade average of 3.50 to 3.74 graduate *Cum Laude*; 3.75 to 3.84, *Magna Cum Laude*; and 3.85 and above, *Summa Cum Laude*. Should the Central Missouri and cumulative GPAs be in different categories, the lower designation of honors will be recognized.

## Residence

A candidate for any bachelor's degree must have earned at least 40 semester hours of junior/senior level coursework at an accredited senior institution of which at least 30 of those hours must be completed at Central Missouri. Fifty percent of the major and minor coursework must be completed through UCM. The last 12 semester hours required for the degree must have been earned at UCM.

For an associate degree, the student must earn at least 20 semester hours with Central Missouri, with the last 12 semester hours completed at Central Missouri.

### **State Requirement**

Section 170.011 RSMo prescribes that all candidates for a degree issued by the colleges and universities in Missouri must have completed courses of instruction in and “satisfactorily passed an examination on the provisions and principles of the Constitution of the United States and of the State of Missouri, and in American history, including the study of American institutions.”

Students may comply with the law (1) by completing courses embracing the subject matter specified by the law and receiving credit therein, preferably before admission to upper-level work, or (2) by certification of the completion of such requirements at another Missouri collegiate institution.

Students in the following categories will have fulfilled the requirements of this law.

1. All UCM majors in the social studies.
2. All students who have taken HIST 1350, HIST 1351, or POLS 1510 in Division II, Area B, of the General Education Program.

***Additional information about types of credits accepted at Central Missouri appears on pages 8-9 of this catalog.***

### **Date of Catalog for Checking Degree Requirements**

Students are always subject to current administrative, academic and general policies and regulations. The *2007 Undergraduate Catalog* becomes effective Fall 2007.

In most instances a candidate may use as a basis for degree requirements the *Undergraduate Catalog* issued for any year following the date of his/her first enrollment in the University so long as it is dated not more than eight years prior to the date the degree is conferred. A student must earn academic credit at UCM during the year of the catalog chosen or have attended consecutive semesters at another institution of higher education. UCM follows the catalog agreement described in Policies and Procedures for the Review of Academic Program Proposals: New Academic Programs, Off-Site Delivery of Existing Programs and Program Changes (Missouri CBHE, April 1997). However, the University reserves the right to add, change, delete, and interpret policies at any time and to require these be met by those seeking degree candidacy and/or conferral.

### **Choice of Degrees**

Upon application for a degree program, a student may pursue a second degree different from that of the initial degree granted. Two identical degrees are not permitted. A second degree requires a minimum of 30 additional semester hours beyond the requirements of the first degree. Each degree must meet all degree requirements including:

1. a functional major
2. a major and minor
3. multiple majors.

Majors and minors must be unique to each degree.

### **Application for Degrees**

An application for each undergraduate degree to be awarded must be made in the Registrar’s Office. Such applications must be received by the Registrar not fewer than 30 days before the date the degree is to be conferred. Reports showing satisfactory completion of all degree requirements must have been received by the Registrar

not fewer than 48 hours before the commencement exercises are scheduled to begin.

### **Final Examinations**

Final examinations are given at the end of each semester according to an announced schedule. Permission to take an examination out of scheduled hours is granted only in special cases, with the approval of the instructor of the class and the Vice President for Student Affairs. A fee of \$10 per final is charged for rescheduling of final examinations. Any student who has three final examinations scheduled on any one day may request permission to move one of the examinations to another day during the final examination period. There is no charge for this, but approvals must be secured as described above. Resolution of conflicting examination schedules, as well as arranging make-up examinations, must be made with class instructors.

### **Final Grades and Transcripts**

Final grades can be reviewed online via Central Missouri’s web site, [www.ucmo.edu](http://www.ucmo.edu), or by calling 660-543-8888. A student number and pin number is required. Transcripts are furnished by the Registrar’s Office.

### **Field Trips**

At times, field trips are planned in conjunction with course assignments. Students in classes for which such trips are planned are to be given sufficient advance notice to make necessary arrangements for absence from the campus. Field trips are not scheduled during final examination periods nor can they be required by an instructor. Work missed in other classes may be made up, although instructors are not required to provide tutoring. All arrangements are subject to the limitations of University liability coverage.

When transportation is provided for the class, faculty may arrange for wheelchair accessible transportation by contacting Accessibility Services.

### **Family Educational Rights and Privacy Act**

Central Missouri adheres to the federal Family Educational Rights and Privacy Act (FERPA). Copies of the full policy implementing the FERPA may be obtained from the Office of the Vice President for Student Affairs.

### **Assessment**

All students are required to participate in the University’s assessment program.

### **Degree Revocation Policy**

#### **I. Purpose**

The purpose of the degree revocation policy is to describe the conditions under which a degree granted by UCM may be revoked.

#### **II. Policy**

It is the policy of the University of Central Missouri that a degree may be revoked when it is demonstrated by clear and convincing evidence that:

- A degree had been erroneously conferred when all requirements had not been satisfied at the time the degree was granted.
- A degree had been erroneously conferred as a result of an act of academic dishonesty.

### III. Procedures

The President of the University is charged with developing procedures to implement this degree revocation policy. The President of the University, the Provost and the faculty will develop such procedures including the appropriate levels of procedural due process extended to the degree recipient.

#### ***Unauthorized Persons in Classrooms***

Persons who are not officially enrolled in a course may not attend a class session without the prior consent of the instructor.

Persons bringing children on campus are responsible for their supervision and any inappropriate behavior.

#### ***Vehicles on Campus***

Because parking space is limited, the University asks that students who can arrange other transportation not bring vehicles to campus. To park in student lots, students may buy parking permits at Parking Services (306 Broad Street). However, parking permits are limited by the number of parking spaces and may not be available for purchase. Handicap parking permits are available at the standard student rate when medical verification is presented to Parking Services or Accessibility Services, Elliott Union 220.

Students may get complete information on parking and operating motor vehicles on campus by picking up a copy of *the University of Central Missouri Parking and Traffic Regulations* at Parking Services, or contacting Parking Services at **parking@ucmo.edu** or toll free at 800-873-8577.

#### ***Alcohol and Other Substances***

The University has established and is committed to enforcing clear policies that promote an educational environment free from the abuse of alcohol and other substances.

The University complies with federal regulations that require alcohol and drug testing for safety sensitive positions. The University expects students, employees, visitors, and organizations to adhere to state statutes prohibiting individuals under the age of 21 from drinking or having alcohol in their possession. Drinking or possession of alcoholic beverages is prohibited in university buildings and residence halls except in those places where an explicit exception has been granted.

The university also expects students, employees and visitors to comply with laws that prohibit the possession, use, distribution and sale of alcohol and illicit drugs.

Anyone found to be in violation of such laws shall be subject to all applicable criminal penalties, as well as disciplinary action in accordance with applicable policies of the University of Central Missouri.

Students under the age of 21 are reminded it is unlawful to use fictitious identification for purchasing alcohol. Health risks associated with the use of illicit drugs and alcohol include, but are not limited to, addiction, accidents as a result of impaired judgment and ability, overdose, damage to internal organs or a developing fetus and unpredictable or violent behavior. Resources for assistance with alcohol or drug-related problems include Counseling and Psychological Services, University Health Services, Employee Assistance Program and a variety of community and regional referral services.

For more information call 660-543-4060 or 660-543-4770.

## SOCIAL OPPORTUNITIES

A college education is more than what happens in the classroom. At UCM, students are encouraged to participate in a variety of activities outside of the classroom that create a well-rounded educational experience. Getting involved on campus gives students the opportunity to develop interpersonal and leadership skills that will serve them throughout their lives.

### *Campus Activities*

From participating in Campus Activities events to membership in a fraternity or sorority, UCM has it all! There are many things for students to do on campus including attending dances, plays, films, concerts, going bowling, and being involved in clubs, intramural sports and student government. Taking part in social, cultural and athletic events provides students with many opportunities to learn about themselves, other people and the world in which they live.

### *Student Organizations*

Approximately 180 registered student organizations exist at Central Missouri. Students are able to affiliate with academic honoraries, departmental organizations, religious organizations, sports teams, and special interest groups. Research indicates a positive correlation between involvement and student academic success; one such experience is involvement in student organizations. Participation in student organizations offers a means to apply classroom learning, explore career choices, gain leadership experience and make valuable contacts.

For information, see the Office of Campus Activities, Elliott Union 217. To see a list of organizations and descriptions go to the Office of Campus Activities web page [www.ucmo.edu/saffairs/oca/](http://www.ucmo.edu/saffairs/oca/).

### *Greek Life*

Fraternities and sororities are a special type of student organization that many students choose to join while at Central Missouri. Students join fraternities and sororities through a process called recruitment which typically occurs at the beginning of each semester. Greek Life offers students the opportunity to develop leadership and organizational skills, participate in community service, and make life-long friends. Friendship, fun, scholarship, community service, and school spirit – Greek life has it all! For more information, visit the Office of Greek Life located in Elliott Union 217 or call 660-543-4007.



Whether intercollegiate or intramural sports, there's plenty for fans to cheer about at UCM. Admission to regular season sports events is free with student ID.



In recent years Mules baseball and Jennies bowling have made it into the national championship playoffs.

### *Intercollegiate Athletics and Organized Sports*

Central Missouri offers three general classes of organized activities in athletics and sports: intercollegiate athletics, intramural sports, and sports clubs.

**Intercollegiate Athletics.** Central Missouri belongs to the 10-member Mid-America Intercollegiate Athletics Association (MIAA) and the National Collegiate Athletic Association (NCAA), Div. II.

Varsity sports for women are basketball, bowling, cross-country, indoor track, outdoor track, softball, soccer, and volleyball. For men, they are baseball, basketball, cross-country, football, golf, indoor track, outdoor track, and wrestling. (See the Office of Intercollegiate Athletics, Multipurpose 203, for information.)

The Athletic Committee, composed of faculty and students from all parts of the University, advises the intercollegiate athletics program.

**Intramural Sports.** An extensive intramural program gives University students, faculty, and staff many opportunities to take part in competitive and non-competitive activities at low cost. Team and individual activities are available for men, women, and co-recreational groups. Among these are badminton, basketball, billiards, bowling, golf, racquetball, rifle and pistol shooting, soccer, softball, swimming, table tennis, tennis, touch football, track, volleyball, wrestling, and many others. (See the Office of Campus Activities, Elliott Union 217, for information.)

**Sports Clubs.** Sports clubs give students an opportunity to participate in sports which are not included in the University's intercollegiate program. Club activities may be intramural (all participants being Central Missouri students) or extra-mural (competition with teams from outside the University). The University funds club sports but assumes no liability for them. (See the Office of Campus Activities, Elliott Union 217, for information.)



**Recreation Facilities**

**Morrow Fitness Center.** The Morrow Fitness Center (MOR 106) is an educational facility developed to provide Fitness/Wellness and Physical Education majors with a laboratory for research, testing, and rehabilitation activities. The facility is operated by the Department of Health and Human Performance and is located in the Morrow Building.

The Fitness Center is utilized by faculty, staff and students. The Center houses computerized fitness equipment and Cybex weight equipment. Students, staff, and faculty are encouraged to inquire at the Health and Human Performance Office, Morrow 100 (660-543-4256) or Morrow 106 (660-543-4387), about usage.

**Multipurpose Building.** The “Multi,” located just west of the stadium, seats up to 10,000 in its arena and provides recreational facilities for students, faculty, and community. Its basketball area accommodates four courts, five volleyball courts, and a six-lane, 220-yard indoor track. It also has eight handball/racquetball courts, two weight rooms, a six-lane, 25-meter pool with a one-meter diving board, conference rooms, and an activity area.

**Pertle Springs.** Located at the end of Holden Street one mile south of campus, Pertle Springs is a 300-acre recreational, instructional, biological research area. Popular activities on the wooded grounds are boating, fishing, hiking, and picnicking. Especially popular is the 18-hole golf course with its air-conditioned golf shop and fleet of golf carts.

**The Recreation Center (Cosmo Bowl)** is located in the Elliott Union and provides 10 bowling lanes, 10 billiards tables and a variety of video games. The facility can be reserved for student organizational, departmental or general public events. Freshens® is located here providing drinks, fruit smoothies, yogurt, popcorn, and pretzels.

**Recreational Programs.** At UCM, we work hard and play hard. Our recreational programs have something to meet everyone’s needs. Intramural sports offers a wide range of individual and team activities including flag football, softball, volleyball, basketball, and soccer. We also have an indoor rifle and pistol range (located in the Humphreys Building) where students can experience the challenges of recreational shooting. Contact the Intramural Office at 660-543-4007 or visit us in Elliott Union 217.

**Other Facilities.** Other campus facilities include 11 all-weather tennis courts, a play field east of the Morrow Building, eight acres of recreational and practice fields west of the stadium, a 400-meter track in the stadium, a play field southeast of Diemer Hall and the South Recreational Complex.

Five city parks are located within walking distance of campus. Knob Noster State Park, 10 miles east of the campus, offers group and family picnic grounds, hiking trails, and a swimming pool.



Pertle Springs, a popular recreation area owned by the University, offers hiking trails, a golf course, a lake for boating, and picnic areas.

# SERVICES FOR STUDENTS

## Academic Advisement

Academic advising is critical to the success, satisfaction, retention and graduation of the University of Central Missouri students. Academic advising is an ongoing interactive process involving the student, advisers, and institution. The primary goal of academic advising is to assist students in the development and accomplishment of meaningful educational plans that are compatible with their life goals. The University of Central Missouri utilizes a “split model” form of Academic Advisement. A centralized academic advisement office serves special student populations such as open option students and conditionally admitted students. All other students are assigned to the colleges for advising by both professional and faculty academic advisers. Academic advisers help undergraduates plan career opportunities, determine degree programs, select courses and coordinate their academic progress. Students may access degree audits online at [www.ucmo.edu/online](http://www.ucmo.edu/online).

## Academic Enrichment

The Department of Academic Enrichment (AE) improves academic success by helping underprepared students prepare, prepared students advance and advanced students excel. AE services include both credit classes and non-credit labs with all services free except for regular class fees. Stop by Humphreys 127, or call 660-543-4061 for information about any of the following programs:

**AE Courses.** Students may choose courses that provide a solid foundation for learning in college. Courses include:

- AE 1000 Introduction to College Writing
- AE 1010 Textbook Reading Techniques
- AE 1012 Speed Reading
- AE 1020 College Study Skills
- AE 1030 Introductory Algebra

**Learning Center.** The AE Learning Center offers free individualized tutoring to all UCM students in math, study skills, test taking, and test preparation. The Learning Center also offers credit courses in math review, speed reading, Microsoft Excel, Word, and PowerPoint. These 1/2 credit or 1 credit courses are by arrangement which means students can schedule the work for these classes around regularly scheduled courses. Each course is designed to be completed in eight weeks.

Other assistance available through The Learning Center include

- Vocabulary and Reading Development
- Standardized Test Preparation (C-BASE, GRE, LSAT, GMAT, and TOEFL)
- Study Skills
- Study Groups

The Learning Center is located in Humphreys 110 and is open from 9 a.m. to 4 p.m. Monday through Friday. Math tutoring is also available Sunday and Wednesday evenings in Fitzgerald Hall from 8 to 10:30 p.m.

**Writing Center.** In one-on-one conferences, instructors assist students at all stages of the writing process, from brainstorming ideas to polishing drafts. In addition, computers, handbooks, style manuals and instructional handouts are provided to support any writing task, from crafting an effective thesis statement to building an eye-catching résumé. The Writing Center is open Monday through Friday in Humphreys 116, and evening hours in the residence hall satellites which are announced early in each semester.

Online writing assistance, along with instructional handouts and general information, is available at [www.ucmo.edu/writingcenter](http://www.ucmo.edu/writingcenter).

**McNair Scholars Program.** Designed primarily for juniors and seniors, McNair offers preparation for doctoral study for U.S. citizens and permanent residents who meet government eligibility requirements. Activities include information seminars, faculty mentoring, and a paid summer research internship. Because of federal guidelines, students must apply for acceptance to the McNair program through the Department of Academic Enrichment.

**Student Support Services (TRIO-SSS).** Funded by a U.S. Department of Education grant, TRIO-SSS offers tuition-free developmental education courses in writing, reading, mathematics and college success strategies. These courses offer small class sizes, individualized learning methods, one-on-one tutorials and advisement sessions. TRIO-SSS also offers extra advisement opportunities and free tutoring in a variety of high-risk courses. Because of federal guidelines, students must apply for acceptance to the TRIO-SSS program through the Department of Academic Enrichment.

**Summer Suspension Waiver Program.** Students on academic suspension, with GPAs of 1.50 or higher, may request readmission for summer classes. Faculty mentors meet weekly with students to discuss strategies for improving academic performance. Students who successfully complete the summer program and achieve at least a 2.00 summer GPA are permitted to enroll for fall classes.

**AE 1400 Freshman Seminar.** This course orients new students to Central Missouri through discussion of academic purpose, university resources, academic skills, relating to others, making choices, and creating goals. Central Missouri encourages all freshmen to enroll in this one credit hour course during their first semester.

**AE 1450 Valuing Differences.** Within the context of a one-hour personal, experiential, and interactive learning course, explore current issues and challenges related to race, gender, and culture. This course is one semester hour and runs a half semester.

## Assessment and Testing Services

The Director of Assessment is located in Administration 304, 660-543-4116, and the Interim Director of Testing Services is located in Ward Edwards 1114, 660-543-4919. The Office of Assessment and Testing Services administers, supports and coordinates Central Missouri’s Assessment and Testing Services Programs. The University’s assessment program is called “Central’s Quality Improvement Program (CQIP).” A description of the major goals and components of CQIP can be found at [www.ucmo.edu/testingervices](http://www.ucmo.edu/testingervices).

**Official Score Report Policy.** Only score reports that are sent directly from the test company to Testing Services, Ward Edwards 1114, UCM, Warrensburg, MO 64093, are considered official. Official score reports are required to be on file for students to meet admission and/or other program requirements. **The University of Central Missouri retains and uses scores obtained within the past 10 years.**

To protect confidentiality and privacy, score reports are not available by telephone, fax, email, Internet or proxy. An official photo ID bearing the candidate’s signature is required for most services.

At Central Missouri, assessment is an integral part of the continuous process of learning and development with the purpose of enhancing a student’s total university experience. Assessment uses well-defined outcomes and criteria employing multiple measures.

All students are required to participate in UCM's assessment program. This assessment may include periodic measurements of student intellectual and personal growth through examinations/assessments in General Education, intellectual skills or the major field of study and various opinion surveys.

Assessment and Testing Services is a member of the National College Testing Association (NCTA) and the Consortium of College Testing Centers; and adheres to the NCTA Professional Standards and Guidelines.

**General Education Assessment.** All University of Central Missouri students are required to take the *College*-BASE. Students using the Undergraduate Catalog 2007 are required to complete a 15-hour set of General Education courses during the first three to four semesters at UCM and obtain a minimum score on the *College*-BASE General Education Assessment as a condition for graduation. (For additional information refer to the General Education Program listed in this catalog or visit [www.ucmo.edu/testing-services](http://www.ucmo.edu/testing-services).)

**Admission to Teacher Education:** Education majors are REQUIRED by the Missouri State Board of Education to take and pass (minimum score of 235 on each of five subjects) the *College*-BASE for Teachers exam as one criterion for admission to the Teacher Education Program. Scores from the *College*-BASE for General Education cannot be used for admission into teacher education, as the scores are not comparable.

**Admission to Programs.** A number of programs have implemented minimum entry-level scores on the *College*-BASE for General Education Assessment as a condition for admission into their degree programs. A student should contact their academic and/or faculty adviser to determine the policy for admission to their degree program.

**Transfer Students.** Students who have taken the Measure of Academic Proficiency and Progress (MAPP), the Academic Profile, the Collegiate Assessment of Academic Proficiency (CAAP) test or the *College*-BASE (at UCM or another institution of higher learning), who have and fulfilled the following requirements are not required to take the *College*-BASE for General Education Assessment:

1. Student has a valid score report on file in Testing Services. A valid score report is one that has been sent from the previous institution directly to Testing Services and verified by the Director, Ward Edwards 1114, and ...
2. Has obtained a minimum score on each of the subject areas of the test taken as listed in the General Education Program within this catalog.

**Major Field Assessment.** Each academic program establishes the conditions and requirements for assessment of its majors. All students are encouraged to contact faculty within their program to determine the policy, practice and standards for assessment in their major field. Advanced test registration and test administration for many of the major field assessments prescribed by departments is administered by Testing Services. Students are encouraged to contact their faculty adviser to determine the policy for their degree program.

**Surveys.** In addition to standardized and locally developed assessments in General Education and the major field, Central Missouri utilizes a variety of opinion surveys designed to measure student perceptions of their experiences at UCM, both academic and non-academic. The information derived from assessment activities is used to facilitate student learning and development, to promote faculty and staff growth and to improve the quality of academic and non-academic programs, services and facilities.

The Office of Assessment and Testing Services administers, supports and coordinates UCM's Assessment and Testing Services

Programs. Staff can assist students in identifying appropriate tests, register students for tests and/or provide test registration information.

**Information Related to Test Registration and Score Reports.** In addition to the administration of a variety of tests and surveys, Testing Services also maintains test scores and distributes registration material for other examinations not administered by Testing Services. UCM's Testing Services is an authorized test center and administers the Test of English as a Foreign Language (TOEFL-iBT). UCM will become an authorized test center and will administer the Graduate Record Examination - General Test (GRE-General-iBT) beginning September 2007. UCM is not yet authorized to administer the Graduate Management Admission Test (GMAT-iBT). The GMAT test, used for admission into specific graduate programs, is administered only at authorized test centers. However, the office does maintain official test scores for the past 10 years and provides registration materials and information for students who are interested in taking these exams.

**Tests Administered or Registration Materials Supplied.** Testing Services maintains test scores and provides registration information and materials for all of the tests listed below. Testing Services, Ward Edwards 1114, 660-543-4919, maintains test scores and provides registration information and materials for all of the tests listed below. Those tests administered at UCM through Testing Services are marked with an asterisk (\*).

Official score reports received by Testing Services directly from the testing company are required.

- \* ACT-Compass/ESL
- \* American College Testing Program (ACT)
- \* American Drafting and Design Association Exam (ADDA)
- \* Area Concentration Achievement Test (ACAT)  
Arnett Development Corporation "Complete RN Testing Success" Exams (CRST)
- \* Assessment Technologies Institute, LCC (ATI-Nursing)
- \* Certified Manufacturing Technologist Exam (CMTE)
- \* College Basic Academic Subject Examination for General Education Assessment
- \* College Basic Academic Subject Examination for Teachers
- \* College-Level Examination Program (CLEP)
- \* Constructor Certification Exam (CCE)
- \* Counselor Preparation Comprehensive Exam (CPCE)  
Diagnostic Readiness Test (DRT-RN)
- \* General Education Development (GED)
- Graduate Management Admission Test (GMAT) *computer-based test*
- \* Graduate Record Examination – General Test (GRE-General)  
*Internet-based test* (to be administered at UCM beginning September 2007)
- \* Graduate Record Examination – Subject Tests (GRE-Subject)
- \* Institutional Test of English as a Foreign Language (ITP-TOEFL) (see TOEFL-iBT)
- \* Law School Admissions Test (LSAT)
- Major Field Achievement Test (MFAT)
- \* Major Field Achievement Tests (MFT-iBT)
- Medical College Admissions Test (MCAT)
- Miller Analogies Test (MAT)
- \* Minnesota Language Proficiency Assessments (MLPA)
- \* Missouri Police Officers State Certification Exam (MPOSCE)
- \* National Association of Industrial Technology Exam (NAIT)
- \* National Automotive Technician Education Foundation (NATEF)  
National League of Nursing Achievement Tests (NLN-Achievement)
- National Registry of Emergency Medical Technician – First Responder (NREMT-FR)

- \* PRAXIS Series (previously National Teacher Exams)
- \* Professional Photographers of America (PPA)
- \* School Leadership Licensure Assessments (SLLA and SSA) TeckChek
- \* Test of English as a Foreign Language (TOEFL)
  - Internet-based test*
  - Test of Spoken English (TSE)
  - Travel Agency Proficiency Exam (TAP)
  - Watson Glaser Critical Thinking Appraisal (WGCTA)

To obtain test dates and/or to register for some tests, visit [www.ucmo.edu/testingservices](http://www.ucmo.edu/testingservices). **An official photo ID bearing candidate's signature is required for most services.**

**Test Registration.** Advanced test registration is required for most tests. Test fees and test registration deadlines apply for many tests. To view the test calendar/information and/or register, please visit [www.ucmo.edu/calendar](http://www.ucmo.edu/calendar) or [www.ucmo.edu/testingservices](http://www.ucmo.edu/testingservices).

**Test Cancellation Policy.** To maintain reasonable test fees, an examinee is obligated to test on the date and time that is originally scheduled. If the examinee decides not to keep the appointment, the examinee is responsible for providing Testing Services with **ADVANCED NOTIFICATION** to cancel the test date. Failure on the part of the examinee to plan ahead and to provide a minimum 24-hour advanced notification of cancellation will result in a charge of \$25 for rescheduling to test. An excused absence with official documentation (doctor's note, etc.) may be considered if advanced notification is not possible. Testing Services is open Mon. - Fri., 8 a.m. – 5 p.m. Messages left after hours or on a weekend are not considered to be advanced notification.

**Candidates with Documented Disabilities.** A candidate with documented disabilities who wishes to use approved test accommodation in compliance with the Americans with Disabilities Act needs to notify Testing Services at the time of registering for a test. The candidate is also responsible for requesting documentation from the Office of Accessibility Services, Elliott Union 222, 660-543-4421, be provided to Testing Services a minimum of seven business days prior to the test date. As with all students, test fees and test registration deadlines apply for many tests.

**Admission to the University of Central Missouri.** It is recommended that students considering admission to the University of Central Missouri take the national ACT test due to its greater applicability. Official score reports are to be on file in Testing Services. To request a free official ACT score report be sent to UCM, applicants should enter 2272 on the ACT test registration form. The ACT Residual exam, however, is administered one time per year. Scores from the ACT Residual testing cannot be used for scholarships, athletic admission requirements or admission to other institutions/agencies. Contact Testing Services to obtain Central Missouri's institutional score recipient for other standardized tests.

**College Credit by Examination.** The University offers students the opportunity to gain academic credit for knowledge they may have acquired through course work or independent study. Special credit awards may or may not apply towards a degree program. Not all exams have a course equivalent at UCM. Several options may be available for earning special credit in a specific subject area. It is important to know that duplicate credit for a course in which credit has already been earned is not available.

Students must score at or above the level established by the University to receive special credit and may only receive credits in areas for which course equivalents have been established. Credit by examination cannot be applied to any upper-level hour requirements. The total credit earned by special credit will not exceed 30 semester hours for a bachelor's degree or 15 semester hours for an associate degree. All special credit is subject to a \$5-

per-hour recording fee. Students must be enrolled at the University of Central Missouri and have completed a semester to receive a transcript listing the special credit.

Special credit obtained from another institution is not reviewed unless an official score report is on file with Testing Services. Students who want to use special credit obtained from other institutions must first request an official score report from the test company be sent to the university. The official score report will be reviewed by the Director, Testing Services, to determine eligibility for special credit at UCM.

**Official Score Report Policy.** Central Missouri retains and uses scores obtained within the past 10 years. For credit to be considered, Testing Services must receive an official score report sent directly from the test company to Director, Testing Services, Ward Edwards 1114, UCM, Warrensburg, MO 64093.

**Credit by Examination.** Credit may be granted for successful performance on the following examinations (These exams are administered by UCM's Testing Services\*):

**Advanced Placement Exams (AP).** The AP exams are available to high school students. Credit may be granted for successful performance on Advanced Placement Exams. Course equivalents for AP tests are available in a number of subject areas as determined by faculty. To order official AP test results, contact Advanced Placement Examination, PO Box 6671, Princeton, NJ 08541-6671; 888-225-5427 (609-882-4118 for TTY); [www.collegeboard.com/ap](http://www.collegeboard.com/ap).

**International Baccalaureate Program (IB).** The IB program is available to high school students. Central Missouri recognizes the International Baccalaureate Diploma for admission purposes. Credit may be granted for successful performance on International Baccalaureate tests. Course equivalents for IB tests are available in a limited number of subject areas as determined by faculty. To order official IB test results, contact International Baccalaureate, 475 Riverside Dr., 16<sup>th</sup> Floor, New York, NY 10115; 212-696-4464; [www.IBO.org](http://www.IBO.org).

**\*College Level Examination Program (CLEP).** Central Missouri is interested in knowing what knowledge a student has upon entry to the University. Credit may be granted for successful performance on the CLEP exams. Course equivalents for CLEP exams are available in a limited number of subject areas as determined by faculty. For information and/or to request an official score report contact: P. O. Box 6600, Princeton, NJ 08541-6600; 800-257-9558; [www.collegeboard.com/clep](http://www.collegeboard.com/clep). Testing Services at UCM is a CLEP test center.

**Chauncey Group International - DANTES.** Central Missouri is interested in knowing what knowledge a student has upon entry to the University. Therefore, only DANTES tests taken after high school graduation are reviewed for possible credit. Credit may be granted for successful performance on DANTES tests. Course equivalents for DANTES tests are available in a limited number of subject areas as determined by faculty. To order official DANTES test results, contact The Chauncey Group International, ATTN: DSST Program/Transcript Service, 664 Rosedale Rd., Princeton, NJ 08540; 887-471-9860; [www.getcollegecredit.com](http://www.getcollegecredit.com).

**\*Math-for-Credit.** Central Missouri offers two Math-for-Credit exams: MATH 1111 College Algebra and MATH 1620 Contemporary Math. These locally developed exams are similar to course finals and are available only to University of Central Missouri students. For information contact Testing Services.

Additional information may be obtained from Testing Services, Ward Edwards 1114, 660-543-4919; [testingservices@ucmo.edu](mailto:testingservices@ucmo.edu); or by visiting [www.ucmo.edu/testingservices](http://www.ucmo.edu/testingservices).

**Campus Advocate**

The Campus Advocate serves as a support office for students with questions, concerns and/or problems. The advocate's role is to facilitate communication between students and others (faculty, administration, other students) and to assist students in knowing how to address/resolve problems within the framework of the University's organizational structure.

**Chapel**

The Alumni Memorial Chapel was built in 1956 in memory of Central Missouri students who served in World War II and the Korean War. Funds were donated by private individuals and organizations. The Alumni Chapel seats 200 in the sanctuary, has a meeting room for 20 people, and contains a complete kitchen and dining area in the undercroft. The Danforth Foundation funded the attached Danforth Chapel which contains six kneeling benches and is open to the public during the day. In the Fall of 1994 a bronze sculpture titled "Guardian," which is a memorial to all men and women who have served our country in armed services, was placed near the entrance of the Danforth Chapel. The chapel is used by Central Missouri students as a meeting place for social and religious organizations, choir practice, initiation ceremonies, group testing, parties, and weddings. Students also use it for individual or group meditation and communion.

**Counseling and Psychological Services**

Counseling and Psychological Services, located in Humphreys 131, offers CONFIDENTIAL counseling for UCM students concerned about educational, career, and personal issues. Psychologists provide individual and group counseling, psychological assessment and referral, outreach programming on psychological issues, consultation, and crisis intervention. Call 660-543-4060 for an appointment.

**Dining Service**

In addition to regular meal service in residence halls, dining service is also available in the Elliott Union. The Union features, on the first level, the Central Courte offering Burger King® Express, Pizza Hut® Express, Taco Bell® Express, Sub Connection®, and the Corner Market™, which offers daily entrees with all accompaniments, soup, salads and desserts. Located on the main level in the Recreation Center is Freshens® which features drinks, fruit smoothies, popcorn, yogurt and pretzels. Also on the main level in the Union atrium is Jazzman's® Cafe with delicious Seattle's Best® coffee, espresso, latte, tea and fresh baked desserts.

Both on- and off-campus groups and organizations may arrange for catered refreshments and full meals through the Union Catering office, Elliott Union 108.

**Distance Learning**

Distance Learning at the University of Central Missouri encompasses Internet-based, electronically-delivered education via online and interactive television (ITV). Within the Office of Extended Campus, Distance Learning manages, schedules, coordinates and assists in marketing all distance education courses and degree programs. Appropriate student services, including library resources, an online writing lab and technical support, are provided to meet the additional needs of the distance learner.

**Elliott Union**

The Elliott Union is centrally located on the main campus, serving as the "living room" for the campus community. The Union provides facilities for dining, meetings, social functions, conferences, student activities and programs, a computer lab, a

copy center, ATMs, student organization offices, study lounges, and quiet areas. The Union also houses student services offices which include: Department of Student Life, Office of Campus Activities, Office of Community Engagement, Dining Service/Catering, Office of Career Services, Office of Campus Advocate, Student Government Association, Facilities and Conference Services Office, and the Office of Accessibility Services. The Union also features an Information Desk that provides campus-wide information to students, staff, faculty, and guests.

**Faculty and Staff Resource Advisers**

Each academic department which offers major or minor programs has identified faculty and staff members as Resource Advisers. Advisers confer with students interested in those fields of study and help those who plan to major or minor in them with their individual programs. Inquire at the Office of Academic Advisement of your college or the major department for names and offices of Resource Advisers.

**International Student and Scholar Services**

Located within the International Center, Ward Edwards 1200, International Student and Scholar Services assists all international students and visiting international faculty through orientation, advocacy and programming activities. Other areas of service include immigration and student status certification activities, sponsorship of the International Student Organization, and promoting the role of international education.

**KMOS-TV/KTBG-FM**

KMOS-TV is a non-commercial public broadcasting station operating on Channel 6 with 100,000 watts of power. Studios are located on campus in the Martin Building. The station can be received by over one million residents in central Missouri. A satellite receiving dish on campus permits direct reception of TV programs from the main PBS transmitting station in Alexandria, VA, and from other producers around the country. The station airs a full range of programs including instructional courses, PBS programs, and locally produced shows.

KTBG-FM 90.9 The Bridge, the radio voice of Central Missouri, is a 100,000 watt stereo operation. The station broadcasts to a potential listening audience of one million people. Studios and offices are located in the Martin Building. KTBG-FM broadcasts a full range of National Public Radio programs and Adult Alternative music. The station also produces and airs a number of local programs. KTBG-FM can also be heard at the Lake of the Ozarks on 104.9 FM.

Both KMOS-TV and KTBG-FM are managed by professional core staffs with most of the actual operations carried on by volunteers and paid students.

**Library Services**

Central Missouri's Library Services supports the instructional, research, and public service programs of the University. James C. Kirkpatrick Library has a centralized reference area, which includes periodicals, government documents, and special collections. The government documents area houses the depository collections for federal and Missouri documents. Library holdings include approximately 521,324 books and bound volumes, 809,606 pieces of microform, 735,936 government documents, and 2,552 periodical subscriptions.

The library faculty and staff provide reference and bibliographic services, teach library skills and research techniques, lecture to classes, and conduct library orientation tours. *Quest*, a computerized catalog, provides online access to

library collections. The library is a participant in the Missouri Bibliographic Information User System (MOBIUS) giving students access to the library holdings of more than 57 Missouri academic libraries. External library databases and collections are available via the Internet and interlibrary loan services. Library Services is committed to providing quality services using a variety of information resources and technologies including assistive technology for accommodating those library users with disabilities. For more information about Library Services, please visit the web page <http://library.ucmo.edu>.

**Harmon Computer Commons (HCC)** provides networked IBM and Mac workstations on a first-come first-served basis, access to software, the Internet, *Quest* (the library online catalog), email, and class assignments. Faculty may schedule any of the four computer classrooms for hands-on instruction. Research aids, tutorials, and supplementary material are available in the reference area of HCC. Typewriters are available, and staff is available for assistance. Contact HCC in Library 1250, call 660-543-4196 or email [HCC@libserv.ucmo.edu](mailto:HCC@libserv.ucmo.edu). Visit HCC's web page <http://library.ucmo.edu/hcc>.

**Classroom Media Resources (CMR)** (Library 1340, 660-543-4142) supports the University community by circulating audiovisual equipment and the media collection. Reservations may be made up to two semesters in advance. Student requests for classroom presentation audiovisual equipment requires check-out by the instructor. Lamps for departmentally-owned audiovisual equipment may be purchased through CMR. Interlibrary film and video rental services are also available. Classroom instruction has priority, but support to non-academic areas and community groups is also provided.

### ***Non-Traditional Student Services***

Non-Traditional Student Services is a resource office for Central Missouri's students who are age 24 and over, have a gap of five or more years since high school, are married, single, have children, or are a veteran. This office provides information, support, advocacy, and referrals to campus and community support services. The office has information on non-traditional scholarships, commuter ride-sharing network, housing, child care, and tutoring or other skill enhancers. Non-Traditional Student Services is located in Elliott Union 217. Call 660-543-4007 for more information.

### ***Office of Accessibility Services***

The Office of Accessibility Services provides students and visitors with disabilities with the services necessary to achieve equal opportunity while at UCM. OAS works with faculty, housing, facilities, and other campus programs to provide opportunities for persons with disabilities. Some of the disabilities that are included are learning disabilities, attention deficit disorder, orthopedic and mobility issues, mental health, vision, hearing and health issues such as migraines, seizures, HIV, IBS and diabetes.

Students seeking accommodations will need to provide recent professional documentation of the disability to OAS. The documentation will need to be on a professional letterhead and indicate the nature of the impairment, that it is permanent or long term, and how it affects the student. More information is available on the OAS web site. Accommodations depend upon the disability and the documentation and might include testing services, text in alternative format, sign language interpreters, or others.

For additional information, contact OAS at Elliott Union 222, 660-543-4421, fax 660-543-4724, [www.ucmo.edu/access](http://www.ucmo.edu/access), or email [oas22000@ucmo.edu](mailto:oas22000@ucmo.edu).

### ***Office of Career Services***

The Office of Career Services helps students identify careers and stay in touch with the job market before and after they graduate. Its services include:

- Employment Referrals
- Career Fairs
- Teacher Placement Day
- On-Campus Interviews
- Career Counseling
- Information on Employment Opportunities
- Career Library
- Career Workshops
- Résumé Writing Assistance
- Interviewing (via videotaped mock interviews)
- Job Search Skills
- Credential Services
- Part-Time Student Employment
- Experiential Education Opportunities
- Comprehensive Web Page Including Job Listings

These services are optional, but students are encouraged to use them for selecting careers and for help in finding positions. Students should register when they begin looking for any type of employment opportunity or hands-on experience. After they graduate, they should notify the office of their employment status and any changes in address or phone number.

More than 600 employers will visit Central Missouri's campus to interview students for full-time, internship and summer positions. Both employers and students may call or write the Director of Career Services regarding their employment needs.

Please note that no course, program, certificate, and/or degree available at Central Missouri carries with it a promise, real or implied, of immediate or eventual employment within the specific areas covered or in any other specific or general areas. Although UCM offers its services to those seeking jobs, employment is the responsibility of the student.

### ***Office of Community Engagement***

Central Missouri's Office of Community Engagement encourages understanding and appreciation of all aspects of human diversity within the Central Missouri community and engages surrounding communities to collaboratively address social justice and community issues, as it relates to human diversity. Located in Elliott Union 224, phone 660-543-4156, the office encourages understanding and appreciation of all members of Central Missouri's community. The office's goal is to foster an open and inclusive community on Central Missouri's campus. The Office of Community Engagement achieves its mission through:

- Oversight of the University Campus Diversity Plan.
- Oversight of the Kansas City Task Force and the Kansas City Task Force Advisory Board.
- Assistance on University accreditation related to human diversity.
- Facilitation of campus and community educational programming and activities related to human diversity.
- Maintenance of campus diversity resource library.
- Incorporation of human diversity understanding into university operations and policies.
- Fostering of the Central Missouri Community Creed.
- Assistance to campus student multicultural programming.
- Assistance to all University programs on incorporation of diversity awareness programs and initiatives.
- Facilitation of goals related to human diversity as stated in the University Mission Statement.
- Interaction with diversity related offices and organizations

on campus and in surrounding communities to build partnerships.

### ***Office of Extended Campus and Distance Learning***

With the cooperation of Central Missouri academic departments, the Office of Extended Campus and Distance Learning administers courses and degree programs off campus, online and through interactive television. The office also coordinates the University's Summer Session, workshops, non-credit courses, contract training, high school dual credit courses, continuing education units (CEUs), vocational education courses and entrepreneurial courses.

### ***Office of International Programs***

The Office of International Programs is also known as the International Center and is located in Ward Edwards 1200. Housed together are the International Programs and Study Abroad services, International Admissions, International Student and Scholar Services and the Intensive English Program.

Students interested in attending school or traveling in another country are encouraged to visit the International Center and inquire about Central Missouri's study abroad programs. Placement opportunities exist in approximately 100 schools in over 40 countries.

### ***Office of Student Financial Assistance***

The Office of Student Financial Assistance administers a wide variety of federal, state, and UCM scholarship, grant, loan, and employment programs, all of which provide funds to help eligible students satisfy the educational and living expenses of attending UCM. Knowledgeable staff members are available to assist students and their families with all aspects of applying for financial assistance and VA educational benefits. The office is located at Administration 104 and may be contacted by telephone at 660-543-4040, fax 660-543-8080, or email at [finaid@ucmo.edu](mailto:finaid@ucmo.edu).

### ***UCM Summit Center***

The University of Central Missouri's Office of Extended Campus and Distance Learning operates a center in Lee's Summit, MO, in an effort to serve students in the greater metropolitan area. The UCM Summit Center is located in the Summit Technology Campus at the junction of Missouri highways 50 and 470. The 40,000-square-foot facility features multi-use classrooms and seminar rooms equipped with state-of-the-art technology, interactive television classrooms, computer labs and conference rooms. Offerings include courses toward the completion of 18 degree programs and non-credit courses, workshops and seminars.

### ***Union Station: Crossroads to Technology***

Union Station sells educationally priced computer hardware and software and is located in Elliott Union 119. Current faculty, staff and students are eligible to purchase hardware and software. Check our web site at <http://ustore.ucmo.edu>.

### ***University Health Center***

**Clinical Services.** The University Health Center, located at 600 S. College St, just south of the Elliott Union, offers a full range of primary health care services to students and their spouses, as well as selected services for faculty and staff. The Health Center is staffed by physicians, nurse practitioners, nurses, and other qualified professional and support staff, and operates primarily on an appointment system, although urgent illnesses and injuries are given priority. Fall and spring semester hours are Monday through

Friday, 8 a.m. to 5 p.m. Summer hours and semester break hours are posted. Check out our web site at [www.ucmo.edu/uhs](http://www.ucmo.edu/uhs) or call 660-543-4770 to schedule an appointment.

**Emergencies.** In the event of an emergency, call 911 from any campus phone, or visit Western Missouri Medical Center at 403 Burkarth Rd, in Warrensburg.

**Health Insurance.** All students attending Central Missouri should have adequate health insurance coverage. All international students are required to show proof of insurance, or must enroll in the student health insurance plan. Domestic students may also enroll in the student health insurance plan for themselves and their dependents.

The student insurance plan provides benefits to insured students and their insured dependents on or away from campus, 24 hours a day. The insurance year runs from August to August, and may be paid for the entire year, or on a per semester basis. For more information about the student insurance plan, call 660-543-4771, or stop by the University Health Center to pick up a brochure.

**Health Promotion and Wellness Services.** The Health Promotion office offers information and programs for students to help them make healthy choices while on campus, and to help them establish healthy habits to last a lifetime. Programs and information areas include alcohol risk reduction, healthy relationships, sexual health, stress management and more. For information on programs, or to get involved as a volunteer, call 660-543-8338, or stop by the office in the University Health Center at 600 S. College St.

### ***University Store***

The University Store is the primary source for undergraduate and graduate textbooks. The University Store also sells a variety of tradebooks and magazines, supply items for the classroom and Central Missouri apparel and gifts. A textbook reservation service is available for fall semester classes. A special order desk accepts orders for a variety of merchandise. "A partner in education," the University Store is located on the lower level of the Elliott Union. Check our web site at <http://ustore.ucmo.edu>.

### ***Welch-Schmidt Center for Communication Disorders***

UCM has a comprehensive speech-language and hearing clinic in the Welch-Schmidt Center for Communication Disorders (Martin 34). Undergraduate and graduate student clinicians, supervised by faculty of the Department of Communication Disorders, provide assessment and treatment to students, faculty and members of the community with articulation, voice, swallowing, stuttering, language and/or hearing disorders.

The center has treatment rooms with two-way mirrors, video and audio monitoring; an early childhood preschool for children with speech and language disorders who are between the ages of 2½ and 5 years; a voice and swallowing laboratory including rigid and flexible endoscopy for vocal fold visualization, air-flow/pressure measurements and acoustic evaluation; four audiologic suites where hearing evaluations, impedance audiometry, otoacoustic emissions, video otoscopy, auditory brainstem response and electronystagmography are performed. The hearing aid laboratory is equipped with the latest technology for the fitting and dispensing of hearing instruments. Students have available a variety of current assessment and treatment materials and a student clinician workroom complete with Macintosh and PC workstations.

Students, faculty, staff and their immediate families may use the services of the center at reduced fees. The center welcomes self referrals and referrals from university faculty and staff, University Health Services and community health and educational agencies.



The University's Max B. Swisher Skyhaven Airport is home to a fleet of training aircraft for the aviation program.

## OTHER SERVICES AND FACILITIES

### *Airport*

UCM owns and operates the Max B. Swisher Skyhaven Airport located three miles west of Warrensburg on Highway 50. It includes 402 acres of land; a 4,200-foot lighted runway, with a full-length parallel taxiway; a 2,800-foot lighted runway; and buildings for administration, maintenance, and other uses. The airport is a teaching laboratory for the University and a community airport serving the Warrensburg area.

### *Alumni Association*

The Alumni Association of the University of Central Missouri provides opportunities for alumni to stay connected with their alma mater after graduation by hosting alumni gatherings throughout Missouri and around the country. Reunions are held for classes and organizations to reunite alumni and bring them to campus. Events are planned in conjunction with athletic events for alumni and fans alike. The Alumni Association seeks to recognize the accomplishments of alumni through awards such as the Distinguished Alumni Award, Distinguished International Alumni Award, and the Outstanding Recent Alumni Award. Scholarships are also available to the children of alumni who are attending the University of Central Missouri.

Membership in the Alumni Association is complimentary to graduates of the University of Central Missouri. Members receive *Central Today*, the alumni publication, four times per year as well as invitations to events in their area. Other benefits include assistance with reunion planning and locating fellow alumni, access to university facilities, bookstore discounts, and career assistance.

More information on the Alumni Association can be found in the Smiser Alumni Center located in the Elliott Union or by calling 660-543-8000.

### *The Center for Teaching and Learning*

The Center for Teaching and Learning advances Central Missouri's academic mission by encouraging and supporting the advancement of instruction, the scholarship of teaching and learning, and service learning. Professional, technological and developmental assistance for faculty and staff is provided by means of a coordinated training program, modern laboratory facilities and expert technical advice and support. The center seeks to integrate sound teaching practice with current instructional technology to foster faculty growth and to contribute to Central Missouri's statewide mission in professional technology.

### *Central Regional Professional Development Center*

The CRPDC is the primary operating agency of the Central Professional Development Consortium. The center's mission is to provide information and resources in proven instructional and administrative practices which promote quality instruction in the classroom, overall school improvement and school-linked services for children and youth and their families. The center offers professional development opportunities, including inservices and workshops, to practicing teachers and administrators designed to address needs in all areas, particularly in science, math, technology and reading/writing. The center's toll free number is 800-762-4146. The Executive Director may be emailed at [vinson@ucmo.edu](mailto:vinson@ucmo.edu).

### *Child Care Centers*

The University supports two child care centers on campus. The facilities are located at the Foster/Knox Building and the Central Village Apartment Complex. Both of these centers are licensed with the Missouri Department of Health and Senior Services. Central Village holds a certificate of accreditation from Missouri Accreditation and Foster/Knox is working toward their certification.

The child care facilities are available to all students, staff, and faculty. Children six weeks to ten years may enroll. Enrollment is accomplished through a waiting list. The child care centers have adopted Creative Curriculum to assist in planning appropriate learning experiences for every child in our program. All children in our care are provided meals.

Both centers offer full-day care, Monday-Friday and offer attendance options of Monday/Wednesday/Friday or Tuesday/Thursday. Central Village offers evening care for children of students attending night classes Monday through Thursday evenings. Foster/Knox Center is the only center open during the Summer Sessions and offers a Summer Camp program for school-age children. For more information or to take a tour, call Foster/Knox at 660-543-4605 or Central Village at 660-543-4793.

### *Gerontology Institute*

The Gerontology Institute provides research, service, and training resources to agencies and individuals working in the field of aging. It convenes scholars, practitioners, and policymakers for workshops and seminars. It promotes research in the field of aging and disseminates recent scholarly findings. In addition, it provides public service to those serving in the field of gerontology.



**Information Services**

With the Chief Information Officer and most offices located in the Humphreys Building, the Department of Information Services provides information processing, computer support, network and telecommunications services for the entire University.

**The Computer Support Services** unit operates, on a nearly around-the-clock basis, the large-scale central IBM mainframe academic and administrative computer systems which house many databases critical to the University's operations. Access to these systems is provided through microcomputers and web interfaces.

**The Management Information Systems** unit designs, develops, acquires and supports application software systems, including financial, student services, developmental and human resource management for the many administrative offices of the University.

**The User Services** unit provides 24/7 campus-wide computing access through more than 4,500 workstations (with more than 3,500 connected to a high speed network), computer support through a central HELP Desk facility and support staff, general and customized training for faculty, staff and students along with World Wide Web user support and academic consulting. User Services also provides support for network servers and storage resources, as well as for many academic and administrative computing functions.

**The Telecommunications** unit administers and maintains the University fiber-optic and copper wire cabling system which provides voice, data and video support to over 50 buildings, as well as managing the campus telephone PBX and voice mail systems.

**Missouri Safety Center**

Promoting safety in Missouri and the nation, the Missouri Safety Center seeks to prevent injury and death through technology transfer, instruction, research and public service. The center utilizes a staff of safety professionals dedicated to injury prevention. These safety professionals deliver programming to a diverse clientele which includes personnel from law enforcement, pupil transportation, industry, government and the general public. State-of-the-art information and use of advanced technology is at the core of the center's various curricula and programs.

The Missouri Safety Center's Instructional Park is located just south of the main campus. This unique facility houses the professional training programs, off-street driving range, skid pad, and off-road and all-terrain vehicle range. The Center maintains a fleet of more than 100 vehicles for road, special training and range use. Also housed within this facility are an advanced computer software training laboratory, and one of the nation's foremost breath alcohol instrument training and repair laboratories.

**Prussing Agriculture Research Farm**

The 260-acre Prussing Agriculture Research Farm, a teaching unit of the Department of Agriculture utilizing the latest in agriculture technology, provides laboratory experience for students in agriculture classes and work opportunities for students interested in hands-on experience. The newest additions to the farm are a two-classroom Agriculture and Conservation building and a trapshooting range with skeet overlay funded by a grant from the Missouri Department of Conservation. Additional teaching/research facilities are a mature orchard, greenhouse complex with dwarf orchard, and research plots at the Max B. Swisher Skyhaven Airport. Agriculture research, funded by the University, private industry, and the Natural Resources Conservation Service is carried on by faculty and students at these facilities.

**Public Safety**

The Department of Public Safety includes the University Police, Key Control, Environmental Health and Safety and Parking Services. It is located at 306 Broad Street and is open 24 hours daily, 365 days per year. Call 660-543-4123.

For emergencies on campus, dialing 9-1-1 from the university phone system will reach the Department of Public Safety. Dialing 9-1-1 from a cell phone will connect the caller to the Johnson County Central Dispatch center. Additional information can be found at [www.ucmo.edu/ps](http://www.ucmo.edu/ps).

**Publications**

The following publications are produced and distributed by the University of Central Missouri:

*UCM Today*, a quarterly tabloid for alumni and friends of the University published by University Relations and the Office of Alumni Relations and Development. *University of Central Missouri News*, a monthly newsletter for faculty and staff published by University Relations. The *Muleskinner*, a weekly campus newspaper published by a Department of Communication student staff.

**Research**

The Office of Sponsored Programs establishes, administers and coordinates programs that guide Central Missouri in its research, scholarly activity and creative endeavors. The office maintains information about funding opportunities from government and private sources. This information includes newsletters, announcements, computer databases and electronic access to federal and private agencies. The office also maintains a research resource library that contains agency regulations and application forms, reference books and manuals on research administration, how-to books on grant writing and directories of foundation support. For assistance with any of your research needs contact the Office of Sponsored Programs or email [Research@ucmo.edu](mailto:Research@ucmo.edu).

**Research Involving Human Subjects.** In order to comply with federal regulations and to protect the health and safety of human subjects involved in research, all research protocols involving the use of human subjects must be in compliance with *Academic Procedures and Policies #9: Procedures for Human Subjects Review*. All projects involving human subjects in research must be approved in advance by The Human Subjects Review Committee. Forms are available at [www.ucmo.edu/osp](http://www.ucmo.edu/osp).



Students groom the horses at the Prussing Agriculture Research Farm.

**Research Involving Animals.** Federal law requires that all research projects involving the use of selected mammals and birds be conducted to ensure humane treatment of the animals. Accordingly, all such projects, regardless of the funding source, must be approved in advance by the Institutional Animal Use and Care Committee. Forms are available at [www.ucmo.edu/osp](http://www.ucmo.edu/osp).

### ***Small Business Development Center***

The Small Business Development Center offers consulting, counseling, training, and research services for business and industry. Students from various colleges work with Center staff and faculty members to collect and evaluate data and offer counsel on a variety of business and technical problems in today's marketplace.

### ***Student Volunteer Programs***

Student Volunteer Programs provide students with opportunities to become involved in the Warrensburg community. The office provides referrals to local agencies and schools for special projects and ongoing commitments. Each year a group of students spends Spring Break working with Habitat for Humanity building a home. This office also offers off-campus community service federal work study job positions. Students must qualify for work study through the Office of Student Financial Assistance. For information on how to be a part of this enriching experience, stop by the Office of Campus Activities, Elliott Union 217, or call 660-543-4007.

### ***Workshop on Wheels Child Care Resource and Referral***

The Workshop on Wheels Child Care Resource and Referral is an in-service training project for child care providers, early childhood professionals, and parents affiliated with the Department of Educational Leadership and Human Development - Child and Family Development Program. Its primary purpose is to provide programs and services throughout central Missouri which will improve and enhance the quality of child care offered to young children while they are away from their homes. Child care referrals and consumer education materials focusing on choosing quality child care, ADA guidelines, immunization schedules, and other relevant early childhood information are also available to families who are searching for child care options for their children. The Workshop on Wheels Child Care Resource and Referral is funded by grants from the Missouri Department of Elementary and Secondary Education; the Missouri Department of Health; Department of Social Services; and the Children's Trust Fund. For more information, visit [www.ucmo.edu/workshop](http://www.ucmo.edu/workshop).

## SECTION II

# Bachelor's Degrees

Central Missouri offers the following baccalaureates:

- Bachelor of Arts
- Bachelor of Fine Arts
- Bachelor of Music
- Bachelor of Music Education
- Bachelor of Science
- Bachelor of Science in Business Administration
- Bachelor of Science in Education
- Bachelor of Science in Social Work

The following policies apply to the undergraduate degrees offered by the University:

## General Requirements for a Baccalaureate

1. A baccalaureate shall total a minimum of 124 semester hours.
2. Completion of a degree with a major/minor combination requires that a minimum of 20 semester hours of the major and a minimum of 10 hours of the minor must be taken through Central Missouri. Completion of a functional major requires that 30 hours of the functional major must be completed through Central Missouri. If a student completes more than one major, no minor is required. The last 12 semester hours earned toward a baccalaureate degree must be from Central Missouri.
3. A baccalaureate shall include a minimum of 40 semester hours of upper-level credit, 12 of which must be part of a major or of a functional major. Upper-level course work must be earned at Central Missouri in the minor.
4. A baccalaureate shall include the General Education Program as prescribed by the University. See "General Education" in this section.

## Specific Requirements for the Baccalaureate — BACHELOR OF ARTS

1. All General Requirements shall be met.
2. A major for this degree normally shall be 30-35 semester hours.
3. A minor for this degree normally shall be 20-25 semester hours.
4. A modern language requirement shall be 9 semester hours and may be met as follows:

The modern language requirement is fulfilled by successfully completing 9 semester hours of one modern language, or completing 6 hours of one modern language and 3 hours of modern literature in translation (ENGL 2220), or completing 3 hours of an upper-level modern language course.

Students with previous study of a modern language in high school who enroll in a second semester modern language class or higher may be eligible for validated credit. See Department of Modern Languages Statement of Policy. For further information contact the Chair of the Department of Modern Languages.

## Specific Requirements for the Baccalaureate — BACHELOR OF FINE ARTS

This is a professional performance degree available through the Departments of Art and Theatre.

1. All General Requirements shall be met.
2. A functional major for this degree normally shall be 60-80 semester hours.

## Specific Requirements for the Baccalaureate — BACHELOR OF MUSIC

This is a professional performance degree available through the Department of Music.

1. All General Requirements shall be met.
2. A functional major for this degree normally shall be 80-82 semester hours.

## Specific Requirements for the Baccalaureate — BACHELOR OF MUSIC EDUCATION

This is a professional education degree available through the Department of Music. Students planning to obtain teacher certification should see "Teacher Education Policies and Procedures."

1. All General Requirements shall be met.
2. A functional major normally shall total 60-66 semester hours.
3. Professional education courses for this degree shall be 25-35 semester hours.
4. A candidate for this degree must have a minimum cumulative grade-point average of 2.50 based upon total hours attempted.
5. All students receiving this degree must obtain minimum scores on the area specialty test in music of the National Teacher Examination to be eligible for teacher certification (HB463). See "Teacher Education Policies and Procedures."

## Specific Requirements for the Baccalaureate — BACHELOR OF SCIENCE

1. All General Requirements shall be met.
2. A major for this degree normally shall be 40-45 semester hours.
3. A minor for this degree normally shall be 20-25 semester hours.
4. A functional major for this degree normally shall be 60-70 semester hours.
5. Candidates for this degree who are seeking teacher certification must satisfy teacher education certification standards. See BSE degree requirements below.

## Specific Requirements for the Baccalaureate — BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION

1. All General Requirements shall be met.
2. A functional major in this degree normally shall be 60-70 semester hours.
3. Candidates for this degree must achieve a minimum cumulative grade-point average of 2.25.

### Specific Requirements for the Baccalaureate — BACHELOR OF SCIENCE IN EDUCATION

Students planning to obtain teacher certification should see "Teacher Education Policies and Procedures."

1. All general requirements shall be met.
2. A major for this degree shall be in a certifiable area and normally shall be 30-36 semester hours except in those instances where certification requirements exceed this amount.
3. A minor for this degree normally shall be 18-24 semester hours.
4. The semester hours required for a functional major for this degree normally shall be 50-60 semester hours.
5. Professional education courses for this degree shall be 25-35 semester hours.
6. A candidate for this degree must have a minimum cumulative grade-point average of 2.50 based upon total hours attempted.
7. All students receiving this degree must obtain a minimum score on the appropriate exit test, generally the major area specialty test of the National Teacher Examination, to be eligible for teacher certification (HB463). Not obtaining the prescribed minimum score does not preclude receiving the degree. Students with double majors in education normally must plan to take tests in both areas, over a two-semester time period.

### Specific Requirements for the Baccalaureate — BACHELOR OF SOCIAL WORK

This is a professional degree available through the Department of Sociology and Social Work.

1. The functional major for this degree normally shall be 65 semester hours.
2. No minor is required.
3. Candidates for this degree must maintain a minimum grade of C for all required social work courses.
4. Candidates for this degree must successfully complete a fifty (50) hour Field Observation and Participation experience and a five hundred (500) hour Field Practicum experience.

### MAJORS AND MINORS for Bachelor's Degrees

Central Missouri requires that candidates for bachelor's degrees provide evidence of depth of study through the completion of majors and minors. This requirement must be met for each degree earned by one of three options:

- (1) completion of a major and a minor,

(2) completion of a functional major, or

(3) completion of a double major.\*

The double major and the major-minor combination allow for preparation in two fields. The functional major is a comprehensive program which integrates, with the primary field, fields which are closely related. Each degree earned must have a major/minor unique to that degree and not recognized as a major or minor in another degree.

\*NOTE: with the exception of two or more functional majors, any course required in both the major(s) and/or the minor(s) constitutes an overlap and necessitates a comparable number of departmentally approved coursework hours to compensate for the overlap(s).

### RESIDENCE

A candidate for any bachelor's degree must have earned at least 40 semester hours of junior/senior level coursework at an accredited senior institution of which at least 30 of those hours must be completed at Central Missouri. Fifty-percent of the major and minor coursework must be completed through UCM. The last 12 semester hours required for the degree must have been earned from UCM.

For an associate degree, the student must earn at least 20 semester hours with Central Missouri, with the last 12 semester hours completed at UCM.

### ASSOCIATE DEGREES

Central Missouri offers an Associate in Science degree.

#### General Requirements for Associate Degree

1. An associate degree consists of a minimum of 60 semester hours. For an associate degree, the student must earn at least 20 semester hours in residence at Central Missouri. The final 12 semester hours must be earned at UCM.
2. An associate degree candidate must have a minimum cumulative GPA of 2.0 (C), based upon total hours attempted. In the case of a transfer student, a cumulative GPA of 2.0 must be earned at Central Missouri as well as an overall cumulative average of 2.0.
3. All associate degree candidates are required to satisfy Missouri State requirements with regard to the Federal and State Constitutions. This requirement is filled by taking HIST 1350 or HIST 1351.
4. In those cases involving two-year college transfer students, career-level courses may be counted toward the major requirement as determined by departmental evaluation.



## GENERAL EDUCATION PROGRAM

The goals of the General Education Program are to provide students the opportunity to enhance the skills of the intellect; expand their knowledge, understanding, and appreciation of the arts, natural sciences, technology, social sciences, literature and the humanities; and contribute to the improvement of human interactions. These goals can best be accomplished through exposure to a common core of knowledge, as well as through the opportunity to select courses to accommodate individual interests. A common thread throughout the program components is our effort to provide students with the required competencies called for by the Missouri Coordinating Board for Higher Education (CBHE). The CBHE competencies are divided into two parts: Skill Areas (Communicating, Higher-Order Thinking, Managing Information, Valuing) and Knowledge Areas (Social and Behavioral Sciences, Humanities and Fine Arts, Mathematics, Life and Physical Sciences).

The **Intellectual Skills** component of the General Education Program should enable the student to think independently, to write effectively, to speak fluently, to read with comprehension, and to listen attentively. Intellectual Skills also include the abilities to use mathematical reasoning and thinking as well as computation, and to conceptualize goals and ways to attain those goals. Concurrent with the development of these skills should come improved ability to think logically, to analyze and compare, to question and evaluate.

The **Integrative Studies** component of the program is expressly designed to help students examine and develop imaginative, yet disciplined, solutions to complex problems. They will do so by synthesizing the skills, knowledge, and methods developed in other components of the General Education Program. Selected information and skills developed in earlier classes should be so integrated that students discover connections among diverse human endeavors.

To contribute to the academic success of students, UCM has a procedure for planned placement of students in Reading Skills, Modern Languages and in the Intellectual Skills. Students demonstrating exceptional preparation in the Intellectual Skills areas of Written Communication, Oral Communication and Mathematical Reasoning may be eligible to receive credit for the required General Education course(s) by meeting the established guidelines for exemption and credit. Requests for exemptions from required Intellectual Skills courses should be directed to the Office of Academic Advisement in the respective colleges.

### POLICIES CONCERNING THE GENERAL EDUCATION PROGRAM

The Faculty Senate General Education Committee is charged with the development and interpretation of policies concerning the General Education Program. Policies must conform to the Statement of Philosophy and General Goals of the General Education Program.

1. Students will take courses in four divisions: I. Intellectual Skills; II. Core; III. Personal Interaction; and IV. Integrative Studies. In general, General Education courses in Divisions I-III are introductory in nature and open to all students.
2. Courses in Division I. Intellectual Skills should be taken during the student's first year of study. Students with more than 30 semester hours of college credit who have not completed their Intellectual Skills requirements will be expected to make continuing progress toward completion of any remaining courses in this division.

3. Students must meet state law requirements, Section 170.011 RSMo Supp (1988), that mandate specific instruction in State and federal constitutions and American history and institutions by the successful completion of one of the following courses: HIST 1350, HIST 1351, or POLS 1510.
4. In any division of the General Education Program where a requirement may be met in a variety of ways, colleges and departments shall allow students maximum freedom of choice whenever possible. However, colleges and departments may specify the General Education course(s) meeting that requirement for any or all of their degree programs.
5. Transfer students who complete their 42-credit-hour General Education at other colleges and universities in Missouri are considered to have satisfied Central Missouri's 42-credit-hour General Education requirement embodied in Divisions I and II. Transfer students, however, still must complete Central Missouri's Additional Institutional Requirements listed in Divisions III and IV of the General Education Program.
6. Courses taken to fulfill General Education requirements may not be taken on the Pass/Fail basis, but students who have fulfilled all General Education requirements in a specific area may elect to take additional General Education courses in the same area on the Pass/Fail basis.

### REVISED GENERAL EDUCATION ASSESSMENT POLICY

As part of the University's quality improvement efforts, Central Missouri has established two requirements related to the General Education Assessment Policy as a condition for graduation. The following information is intended to help Central Missouri students and their parents understand the university's requirements to ensure that no student's progress towards a degree is delayed in any way.

**Students using the Undergraduate Catalog 2007.** As a condition for graduation a student must:

- Earn a grade in a specific 15-hour set (of 48 hours) of General Education courses in English, Mathematics, Science, and Social Studies.
- and
- Take and pass a test that measures knowledge and skills in English, Mathematics, Science, and Social Studies.
  - A passing score is 235 (on a scaled range of 40 to 560) on each of the subject area tests.

It is the student's responsibility to pass all subject areas of the test by the semester in which a total of 90 credit hours have been earned.

**Transfer Students.** A transfer student who has taken one or more of the 15-hour set of required General Education courses at another institution(s) is responsible for having a transcript from the other institution(s) on file and evaluated in a timely manner. Failure to satisfy this responsibility will result in the student needing to enroll in General Education courses to fulfill the 15-hour set of required General Education courses.

Effective Fall 2004

## General Education Assessment

These courses must be taken by the end of the semester in which the total number of hours accumulated equals or exceeds 60 hours. The College-BASE for General Education Assessment (except Teacher Education students) is to be taken the semester following the completion of the 15-hour subset of required General Education courses.

### DIVISION I, AREA A, Written Communication – ENGLISH

Select 6 credit hours from:

- ENGL 1020, Composition I (3 credit hours);
- ENGL 1030, Composition II (3 credit hours);
- ENGL 1080, Advanced Composition – refer to catalog (6 credit hours)

### DIVISION I, Area C, Mathematical Reasoning – MATH

Unless major requires *specific* General Education course(s), select 3 credit hours from:

- MATH 1111, College Algebra (3 credit hours);
- MATH 1150, Pre-Calculus Mathematics (3 credit hours);
- MATH 1620, Contemporary Math (3 credit hours)

### Division II, Area A, Part I – Life & Physical Sciences

#### – SCIENCE

Unless major requires *specific* General Education course(s), select 3 or 4 credit hours from:

- BIOL 1003, Intro to Sciences: Ecology (lab not included) (3 credit hours); OR BIOL 1004, Intro Sciences: Ecology (lab included) (4 credit hours);
- BIOL 1005, Environmental Science (lab not included) (3 credit hours);
- CHEM 1103, Intro to Sciences: Chemistry (lab not included) (3 credit hours); OR CHEM 1104, Intro to Sciences: Chemistry (lab included) (4 credit hours);
- EASC 1004, Intro to Sciences: Geology (lab included) (4 credit hours);
- PHYS 1103, Intro to Sciences: Physics (lab not included) (3 credit hours); OR PHYS 1104, Intro to Sciences: Physics (lab included) (4 credit hours)

### Division II, Area B, Social & Behavioral Sciences

#### – SOCIAL STUDIES

Select 3 credit hours from:

- HIST 1350, History of the U.S. to 1877 (3 credit hours);
- HIST 1351, History of the U.S. 1877 to Present (3 credit hours);
- POLS 1510, American Government (3 credit hours)

A student, except education majors, who has taken the Measure of Academic Proficiency and Progress exam (MAPP), the Academic Profile or the CAAP test (at UCM or another institution of higher learning), and fulfills the following requirements is NOT required to take the College-BASE General Education Assessment:

1. Student must have a valid score report on file in Testing Services. A valid score report is one that has been obtained within the past 10 years and has been sent from the previous institution directly to Testing Services and verified by the Director, WARD EDWARDS Building, Room 1114 and ...
2. Have obtained a minimum score on each of the subject areas of the test taken as shown below:

#### MEASURE OF ACADEMIC PROFICIENCY PROGRAM (MAPP) / ACADEMIC PROFILE

Subject	Minimum Score
Humanities	113
Writing	114
Math	112
Natural Sciences	115
Social Sciences	112

#### COLLEGIATE ASSESSMENT OF ACADEMIC PROFICIENCY (CAAP)

Subject	Minimum Score
Writing Skills	58
Math	54
Science Reasoning	57
Social Sciences	

The College-BASE for General Education for Social Sciences must be taken.

**Post-baccalaureate and Graduate Students** The revised general education assessment policy does not apply to post-baccalaureate or graduate students unless the program requires the assessment policy be fulfilled as a criterion for admission to the program.

#### Undergraduate Students at Central Missouri using undergraduate catalog for Fall 2004, 2005 or 2006

As a condition for graduation a student must:

Earn a grade in a specific 15-hour set (of 48 hours) of General Education courses in English, Mathematics, Science and Social Studies.

and

Take and pass a test that measures knowledge and skills in English, Mathematics, Science, and Social Studies.

- A passing score is 235 (on a scaled range of 40 to 560) on each of the four subject area tests. **OR**

- Obtain a minimum score of 235 on three of the four subjects assessed (English, Mathematics, Science and Social Studies) AND earn a grade of “C” or better in courses(s) related to the General Education subject area in which a score of 235 was not achieved.

It is the student’s responsibility to pass all subject areas of the test by the semester in which a total of 90 credit hours have been earned.

**Undergraduate Students at Central Missouri Prior to Fall 2004** Undergraduate students at Central Missouri prior to the undergraduate catalog fall 2004 are waived from the General Education Assessment Policy requirement unless the major program requires the College-BASE for General Education or the College-BASE for Teachers as a criterion for admission to the program.

**Teacher Education Students** Teacher Education majors are REQUIRED by the Missouri State Board of Education to take and pass (minimum score of 235 on each of five subjects) the *College-BASE* for Teachers exam as one criterion for admission to the Teacher Education Program. Teacher Education students are required to complete the 15-hour set of General Education courses prior to testing. Registration for the *College-BASE* for Teachers Exam must be completed in Testing Services. Registration deadlines and fees apply.

- **Teacher Education students are NOT eligible to take the *College-BASE* for General Education Assessment.** Contact Testing Services, academic adviser or faculty adviser for additional information.



UCM nursing students at North Kansas City Hospital.

**Admission to Programs.** A student should meet with an Academic Advisor to determine if the *College-BASE* for General Education Assessment or the *College-BASE* for Teachers is a criterion for admission to a program.

**Nursing Students.** Students seeking admission to the Nursing program are required to score a minimum of 235 in each of the subject areas of the *College-BASE* for General Education Assessment. For additional admission requirements contact the Department of Nursing, University Health Center, Room 106. When eligible to test, it is important to schedule a testing date in a timely manner to allow time for score reports to be returned. Nursing application deadlines: For admission Spring Semester – July 1. For admission Fall semester – January 1.

Please see [www.ucmo.edu/testing-services/](http://www.ucmo.edu/testing-services/) for a complete discussion of the revised General Education Assessment Policy. For additional information, please contact the Assistant Director, Office of Assessment and Testing Services, Ward Edwards 1114 [bertalott@ucmo.edu](mailto:bertalott@ucmo.edu) (660-543-4919).

# University of Central Missouri

## General Education: SKILL AREAS

### State-Level Goals SKILL AREAS

#### Communicating

To develop students' effective use of the English language and quantitative and other symbolic systems essential to their success in school and in the world. Students should be able to read and listen critically and to write and speak with thoughtfulness, clarity, coherence, and persuasiveness.

#### Institutional Competencies

1. Apply the criteria of effective communication to assess the communication of self and others.
2. Conceive of writing as a recursive process that involves many strategies, including generating material, evaluating sources when used, drafting, revising, and editing.
3. Make formal written and oral presentations with consistent effectiveness.
4. Adapt language and communication strategies to a variety of situations.
5. Employ various organizational structures in a variety of communications.
6. Adapt communication to a variety of audiences.
7. Communicate effectively in groups by listening, reflecting, and responding appropriately and in context.
8. Identify the meaning of quantitative data, such as numbers, graphs, and charts, in a communication.
9. Employ quantitative data in communicating.

#### Higher-Order Thinking

To develop students' ability to distinguish among opinions, facts, and inferences; to identify underlying or implicit assumptions; to make informed judgments; and to solve problems by applying evaluative standards.

1. Recognize that complexity, ambiguity, and uncertainty are persistent human conditions.
2. Identify, develop, implement and evaluate alternative problem-solving strategies for a particular context.
3. Employ both induction and deduction and manipulate quantitative and qualitative evidence to study relationships.
4. Evaluate the strength of another's and one's own thinking in various contexts and disciplinary frameworks by recognizing unstated assumptions, ideological biases, stereotypes, inconsistencies, reasoning fallacies, irrelevancies, governing paradigms, and other factors.
5. Assess the reliability, validity, and adequacy of evidence, for example, by employing standards of measurement, sampling, and alternative hypotheses in evaluating analyses and interpretations of studies.
6. Defend conclusions using relevant evidence and reasoned argument.
7. Assess one's own problem-solving process.



**General Education: SKILL AREAS**, *continued***State-Level Goals****SKILL AREAS****Institutional Competencies**

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**Managing Information**

To develop students' abilities to locate, organize, store, retrieve, evaluate, synthesize, and annotate information from print, electronic, and other sources in preparation for solving problems and making informed decisions.

1. Access and/or generate information from a variety of sources, including the most contemporary technological information services.
2. Evaluate information for its currency, usefulness, truthfulness, and accuracy.
3. Use appropriate technology to organize, store, and retrieve information effectively.
4. Reorganize information for an intended purpose, such as research projects.
5. Present information clearly and concisely, using traditional and contemporary technologies, while avoiding plagiarism.

**Valuing**

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To develop students' abilities to understand the moral and ethical values of a diverse society and to understand that many courses of action are guided by value judgments about the way things ought to be. Students should be able to make informed decisions through identifying personal values and the values of others and through understanding how such values develop. They should be able to analyze the ethical implications of choices made on the basis of these values.

1. Compare and contrast historical and cultural ethical perspectives and belief systems.
2. Utilize cultural, behavioral, historical, and scientific knowledge to clarify and articulate a personal value system.
3. Assess the alternatives and the consequences of various value judgments and their implications for individuals and groups.
4. Recognize conflicts within and between value systems and recognize and analyze ethical issues as they arise in a variety of contexts.
5. Consider multiple perspectives, recognize biases, deal with ambiguity, and take a reasonable position.

# University of Central Missouri

## General Education: KNOWLEDGE AREAS

### State-Level Goals KNOWLEDGE AREAS

### Institutional Competencies

#### Social & Behavioral Sciences

To develop students' understanding of themselves and the world around them through study of content and the processes used by historians and social and behavioral scientists to discover, describe, explain, and predict human behavior and social systems. Students must understand the diversities and complexities of the cultural and social world, past and present, and come to an informed sense of self and others. (Students must fulfill the state statute requirements for the United States and Missouri constitutions.)

1. Explain social institutions, structures, and processes across a range of historical periods and cultures.
2. Develop and communicate hypothetical explanations for individual human behavior within the large-scale historical and/or social context.
3. Draw on history and/or the social sciences to evaluate contemporary problems.
4. Describe and analytically compare social, cultural, and historical settings and processes other than one's own.
5. Articulate the interconnectedness of people and places around the globe.
6. Describe and explain the constitutions of the United States and Missouri.

#### Humanities & Fine Arts

To develop students' understanding of the ways in which humans have addressed their condition through imaginative work in the humanities and fine arts; to deepen their understanding of how that imaginative process is informed and limited by social, cultural, linguistic, and historical circumstances; and to appreciate the world of the creative imagination as a form of knowledge.

1. Describe the scope and variety of works in the humanities and/or fine arts.
2. Explain the historical, linguistic, stylistic, cultural, and/or social contexts of the humanities and/or fine arts.
3. Identify the aesthetic values used to make critical judgments in various artistic fields.
4. Form, communicate, and defend a response based upon aesthetic values to works in the humanities and/or fine arts.
5. Identify the creative processes of artists in the visual, literary, and/or performing arts.

#### Mathematics

To develop students' understanding of fundamental mathematical concepts and their applications. Students should develop a level of quantitative literacy that would enable them to make decisions and solve problems and which could serve as a basis for continued learning. (The mathematics requirement for General Education should have the same prerequisite(s) and level of rigor as College Algebra.)

1. Recognize and/or describe the cultural, historical, and/or scientific contributions of mathematics to society.
2. Recognize and use connections within mathematics and between mathematics and other disciplines.
3. Create and interpret graphs and tables.
4. Use generalizations based upon pattern recognition.
5. Apply various mathematical models, techniques, and reasoning to solve problems.

## **General Education:** **KNOWLEDGE AREAS,** *continued*

### **State-Level Goals** **KNOWLEDGE AREAS**

### **Institutional Competencies**

#### **Life & Physical Sciences**

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To develop students' understanding of the principles and laboratory procedures of life and physical sciences and to cultivate their abilities to apply the empirical methods of scientific inquiry. Students should understand how scientific discovery changes theoretical views of the world, informs our imaginations, and shapes human history. Students should also understand that science is shaped by historical and social contexts.

1. Explain how to use the scientific method and how to develop and test hypotheses in order to draw defensible conclusions.
2. Evaluate scientific evidence and argument.
3. Describe the basic principles of the physical universe.
4. Describe concepts of the nature, organization, and evolution of living systems.
5. Explain how human choices affect the earth and living systems.

#### **Cultural Interaction**

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A fundamental goal is the recognition that cultures, and attitudes, develop through time; every culture has a heritage. Therefore, multicultural studies involve the past as well as the present, record the inevitable changes in all human societies, and note the successes, failures, and impacts of cultures through time. As an immediate goal, multicultural studies will teach a basic belief in human equality through diversity. Students should learn and display in-depth knowledge of the languages, beliefs, customs, and tolls of other cultures, including non-American and non-Western. If possible, they directly experience other cultures through on-campus activities with international students and/or study abroad. This knowledge and experience helps students develop curiosity and tolerance, rather than mistrust, for other ways of life. They constantly compare aspects of their lives with others. They accept the presence and validity of cultural differences. As an ultimate goal, multicultural education should refine attitudes away from prejudice. These changes in attitude are individual, and hence, measurable goals. They serve as student assessments before and after course work and experience.

1. Develop knowledge, curiosity, and appreciation of cultures and their dynamic heritages.
2. Understand the influence of culture on interactions at the local, national, and global levels.
3. Develop knowledge of languages, beliefs, customs, and/or political and economic systems of other cultures.
4. Explore differences and similarities between/among cultures.
5. Experience other cultures through campus and/or community activities and/or study abroad.

## General Education: KNOWLEDGE AREAS, *continued*

### State-Level Goals KNOWLEDGE AREAS

#### Personal Interaction

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Students need to learn how humans change in intellectual, personality and socialization skills and what causes those changes. They need to learn strategies that will enable them to prevent undesirable changes in their cognitive, emotional and physiological well being. Further, they need to know the causes of personal and social conflicts and understand strategies to resolve those conflicts.

#### Institutional Competencies

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1. Recognize the diversity of human interaction and what promotes and what impedes productive personal interactions.
2. Recognize consequences of appropriate and inappropriate behaviors in themselves and others.
3. Learn strategies that will enable them to prevent undesirable changes in their cognitive, emotional and/or physiological well being.
4. Know the causes of personal and/or social conflicts.
5. Identify and analyze appropriate strategies to resolve personal and/or social conflicts.
6. Understand how humans change in physiological, intellectual and/or socialization skills and what causes those changes.

#### Integrative Studies

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Students are to demonstrate, in sustained as well as brief oral and written presentations, a capacity to react to a problem by marshalling facts and approaches of an interdisciplinary nature.

1. Blend concepts from disparate learning areas.
2. Explain and/or demonstrate how methods of one discipline apply to the content of another.
3. Explain how insights from one area of inquiry have informed another.
4. Respond to a problem by marshalling facts, values, resources, and approaches in an interdisciplinary manner.

## GENERAL EDUCATION PROGRAM SPECIFICS

Some General Education selections listed on these pages may be limited by major/minor choice. Check the major/minor listing in the catalog for specific General Education requirements within the major/minor.

NOTE: The following three requirements must be completed to fulfill University requirements for graduation. These can be met by making careful selections in the General Education sections listed below.

1. Each student must take a course in fine arts (ART 1800, MUS 1210 or THEA 2400) in Div. II Area C, Part 2.\*
2. Each student must take a history course in Div. II Area B or D (HIST 1350, HIST 1351, HIST 2402 or HIST 2410).
3. Each student must take a course (HIST 1350, HIST 1351, or POLS 1510) to fulfill state law requirements, Section 170.011 RSMO Supp (1988).

### Division I Intellectual Skills . . . . . 12

#### Area A: Written Communication - 6 credit hours

Students exceptionally prepared in written communication, as defined by Planned Placement guidelines, will take ENGL-1080 in place of ENGL 1020 and ENGL 1030. Completion of ENGL 1080 with a grade of C or above will result in 6 hours – ENGL 1080 (3) and ENGL 1020 (3).

ENGL 1020	Composition I . . . . .	3
ENGL 1030	Composition II . . . . .	3
ENGL 1080	Advanced Composition . . . . .	6

#### Area B: Oral Communication - 3 credit hours

Choose one course from the following:		
COMM 1000	Public Speaking . . . . .	3
THEA 1100	Oral Interpretation . . . . .	3

#### Area C: Mathematical Reasoning - 3 credit hours

Choose one course from the following:		
MATH 1111	College Algebra . . . . .	3
MATH 1150	Pre-Calculus Mathematics . . . . .	4
MATH 1620	Contemporary Mathematics . . . . .	3

### Division II Core . . . . . 30

Each student must take a course in fine arts (prefix ART, MUS, or THEA) in Div. II Area C. Each student must take a history course (prefix of HIST) in Div. II Area B or D.

#### Area A: Part I - Life and Physical Sciences - 7 credit hours

Choose any two courses with different prefixes from the following, one of which must have a laboratory component:

BIOL 1003	Introduction to the Sciences: Ecology (Lab not included) . . . . .	3
BIOL 1004	Introduction to the Sciences: Ecology (Lab included) . . . . .	4
BIOL 1005	Introduction to Environmental Science (Lab not included) . . . . .	3
CHEM 1103	Introduction to the Sciences: Chemistry (Lab not included) . . . . .	3
CHEM 1104	Introduction to the Sciences: Chemistry (Lab included) . . . . .	4
EASC 1004	Introduction to the Sciences: Geology (Lab included) . . . . .	4
PHYS 1103	Introduction to the Sciences: Physics (Lab not included) . . . . .	3
PHYS 1104	Introduction to the Sciences: Physics (Lab included) . . . . .	4

#### Area A: Part II - Technology - 2-3 credit hours

Choose one technology course from the following:		
BTE 1210	Essentials of Managing Info. . . . .	2
LIS 1600	Information Resources . . . . .	2
MMGT 1012	Global Production Technology . . . . .	2
T&OE 2000	Technology and Change . . . . .	3

#### Area B: Social and Behavioral Sciences - 9 credit hours

Each student must take a course (HIST 1350, HIST 1351, or POLS 1510) to fulfill state law requirements, §170.011 RSMO Supp (1988). Choose three courses with different prefixes from the following:

ANTH 1810	Human Prehistory . . . . .	3
ECON 1010	Principles of Economics . . . . .	3
GEOG 2212	World Geography . . . . .	3
HIST 1350	History of the US to 1877 . . . . .	3
HIST 1351	History of the US from 1877 . . . . .	3
POLS 1500	Introduction to Political Science . . . . .	3
POLS 1510	American Government . . . . .	3
PSY 1100	General Psychology . . . . .	3
SOC 1800	General Sociology . . . . .	3

#### Area C: Humanities and Fine Arts - 9 credit hours

Choose one literature course from the following:		
ENGL 2200	American Literature to 1865 . . . . .	3
ENGL 2205	American Lit. 1865 to Present . . . . .	3
ENGL 2210	British Literature to 1798 . . . . .	3
ENGL 2215	British Lit. from 1798 to Present . . . . .	3
ENGL 2220	World Masterpieces . . . . .	3

Choose two courses from the following, one course of which must be Art, Music or Theatre.

- ART 1800 Ideas and the Visual Arts . . . . . 3
- COMM 3000 Film Appreciation. . . . . 3
- MUS 1210 Experiencing Music . . . . . 3
- PHIL 1000 Introduction to Philosophy. . . . . 3
- REL 1510 Exploring Religion. . . . . 3
- THEA 2400 Theatre in Western Civilization . . . . . 3
- Any Modern (Foreign) Language:  
FREN, GER, SPAN, CHIN. . . . . 3

**Area D: Cultural Interaction - 3 credit hours**

- Choose one course from the following:
- AGRI 2130 Global Agriculture . . . . . 3
  - ANTH 1820 Cultural Anthropology . . . . . 3
  - EDCI 2110 World Diversity and America. . . . . 3
  - GEOG 3201 The Cultural Landscape. . . . . 3
  - HIST 2402 History of the Modern World. . . . . 3
  - HIST 2410 Introduction to Africana Studies . . . . . 3
  - MUS 1225 Music of World’s Cultures . . . . . 3
  - POLS 3522 Modern East Asia . . . . . 3
  - WS 2000 Race, Class, and Gender. . . . . 3

**Additional Institutional Requirements**

**Division III Personal Interaction . . . . . 3**

- Choose three hours from the following:
- CFD 1010 Individual and Family Relationships . . . 3
  - COMM3010 Interpersonal Communication . . . . . 3
  - HED 1100 Personal Health . . . . . 3
  - PE 1206 Lifetime Fitness . . . . . 3
  - PHIL 2300 Ethics . . . . . 3
  - PSY 1320 Psychology of Personal Adjustment. . . 3
  - SAFE 2010 Safety: A Personal and Societal Focus . . 3

**Division IV Integrative Studies . . . . . 3**

Each student must take a course in Integrative Studies which may be specified in major program or choose from Div. IV Area A. To enroll in a course for Div. IV Area A or B, a student will have successfully completed a minimum of 60 semester hours, all required Intellectual Skills courses, and at least 24 semester hours of General Education Core courses, including a course from each core area. Any additional prerequisites are listed per course.

**Area A: General Integrative Studies Courses**

- IGEN 3116 Creative Problem Solving . . . . . 3
- IGEN 3224 Critical Thinking . . . . . 3
- IGEN 3232 Media Literacy. . . . . 3
- IGEN 3468 Community, School & Family  
Connections . . . . . 3
- IGEN 3472 Sports in American Life . . . . . 3
- IGEN 3896 Assessing Global Change for the  
Information Age . . . . . 3
- IGEN 4224 Communication, Science & Technology 3
- IGEN 4231 Myth, Memory & American Realities . . 3
- IGEN 4236 Science & Religion: From Conflict to  
Dialogue. . . . . 3
- IGEN 4244 Comparative Cross-Cultural Cinema . . . 3

**Area B: Capstone Integrative Studies Courses Offered by Student’s Major Department**

- ICAP 4101 Agricultural Capstone Experience . . . . . 3
- ICAP 4109 Construction Operations. . . . . 3
- ICAP 4110 Industrial Problem Solving . . . . . 3
- ICAP 4111 Socio-Economic Factors Impacting  
Health . . . . . 3
- ICAP 4112 Automotive Systems for Contemporary  
Society . . . . . 3
- ICAP 4113 Air Operations Management . . . . . 3
- ICAP 4115 Safety and Health Management . . . . . 3
- ICAP 4221 Artists in Contemporary Society . . . . . 3
- ICAP 4222 The Biology Perspective . . . . . 3
- ICAP 4225 Computer Science Capstone Experience 3
- ICAP 4233 The Scientific, Historical & Sociological  
Impact of Mathematics. . . . . 3
- ICAP 4245 Actuarial Science Capstone Experience 3
- ICAP 4357 Organizational Policy and Strategy . . . . 3
- ICAP 4468 Student Teaching Secondary II. . . . . 4
- ICAP 4478 Integrative Social Work Practicum  
Seminar . . . . . 3

# THE HONORS COLLEGE PROGRAM

The Honors College offers an academic program specifically designed to enhance the educational experience of highly able and/or exceptionally motivated undergraduate students. The Honors College Program is flexibly structured to enable students to realize their full potential by providing them with opportunities for learning and development which may not be available otherwise. The College provides a stimulating academic environment within which gifted students can nurture their talents.

The Honors College will consider applications for admission to The Honors College from high school seniors, high school graduates, transfer students and Central Missouri students who have strong academic records.

For application material and information regarding admission requirements and benefits, interested students should contact the Dean of The Honors College, Library 1450, 660-543-4633.

Some of the present features of The Honors College include:

- Early enrollment
- Research grants
- Course overload privilege
- Transcript recognition.

## Division I Intellectual Skills ..... 12

### **Area A: Written Communication - 6 credit hours**

ENGL 1080 Advanced Composition .....3

Students in The Honors College take ENGL 1080 in place of ENGL 1020 and ENGL 1030. Completion of ENGL 1080 with a grade of C or above will result in 6 hours of credit – ENGL 1030 (3) and ENGL 1020 (3).

### **Area B: Oral Communication - 3 credit hours**

Choose one course from the following:

COMM 1000 Public Speaking .....3  
THEA 1100 Oral Interpretation .....3

### **Area C: Mathematical Reasoning - 3 credit hours**

Choose one course from the following:

MATH 1111 College Algebra.....3  
MATH 1150 Pre-Calculus Mathematics.....4  
MATH 1620 Contemporary Mathematics .....3

## Division II Core ..... 30

### **Area A: Part I - Life and Physical Sciences - 7 credit hours**

Students in The Honors College choose two courses with different prefixes one of which must have a laboratory component. Students may choose the courses listed in the regular General Education Program or may substitute higher level courses in the appropriate prefix categories to fulfill this requirement with approval of the Dean of The Honors College.

### **Area A: Part II - Technology - 2-3 credit hours**

Choose one technology course from the following:

BTE 1210 Essentials of Managing Information 2  
LIS 1600 Information Resources .....2  
MMGT 1012 Global Production Technology .....2  
T&OE 2000 Technology and Change .....3

### **Area B: Social and Behavioral Sciences - 9 credit hours**

HIST 1350 History of the U.S. to 1877.....3

OR

HIST 1351 History of the U.S. from 1877 .....3

Students in The Honors College may choose two additional courses with different prefixes (other than HIST) from the courses listed in the regular General Education Program or may substitute higher level courses in the appropriate prefix categories to fulfill this requirement with approval of the Dean of The Honors College.

### **Area C: Humanities and Fine Arts – 9 credit hours**

#### **Literature – 3 credit hours**

Students in The Honors College may choose one of the courses listed in the regular General Education Program or may substitute a higher level course to fulfill this requirement with the approval of the Dean of The Honors College.

#### **Modern (Foreign) Language – 6 credit hours**

Students in The Honors College are required to take two modern language courses of a single foreign language.

### **Area D: Cultural Interaction - 3 credit hours**

Students in The Honors College may choose one of the courses listed in the regular General Education Program or may substitute a higher level course in the appropriate prefix category to fulfill this requirement with approval of the Dean of The Honors College.

**Additional Institutional Requirements**

**Division III Personal Interaction . . . . . 2**

**HONR 3000 Honors Colloquium . . . . . 2**

A multi-dimensional course, the content of which may vary with each offering; required of and open only to members of The Honors College. May be repeated for a maximum of six semester hours. Prerequisite: Junior standing or approval by the Dean of The Honors College.

**Division IV Integrative Studies . . . . . 4**

**HONR 4000 Honors Project\* . . . . . 4**

A research study or creative project entailing independent work, which is required of and only open to members of The Honors College. Prerequisite: senior standing or approval by the Dean of The Honors College.

\* Not available for graduate credit

**Policies Governing The Honors College Program**

1. Each participant in The Honors College will be required to conform to the policy guidelines of The Honors College and the General Education Program. Suitable course electives consist of those courses permitted on the major/minor programs or in the General Education Program requirements. Any exceptions or departures will require the approval of the Dean of The Honors College.
2. Elementary education functional majors and elementary special education functional majors must include ENGL 1080, HIST 1350 or HIST 1351, Modern Languages, HONR 3000 and HONR 4000 in The Honors College Program. All other requirements of The Honors College Program are fulfilled by the requirements of those majors in conformity with the policies of the General Education Program.

*For more information contact:*

**The Honors College**  
 James C. Kirkpatrick Library 1450  
 University of Central Missouri  
 Warrensburg, MO 64093  
 660-543-4633



## OTHER OPTIONS

### *Pre-Professional Education*

The Biology/Earth Science and Chemistry/Physics Departments take an active role in preparing UCM students majoring in Biology† and Chemistry/Physics\* for admission to professional schools in the following areas:

- Medicine\*†
- Dentistry†\*
- Veterinary†\*
- Physical Therapy†\*
- Optometry†\*
- Pharmacy†\*
- Chiropractic Medicine†\*
- Physician's Assistant†\*
- Engineering\*
- Molecular Biology/Molecular Technology†

All new first-year Biology majors take Biology 1000. All new Chemistry majors take Chemistry 1131. Students wishing to pursue pre-professional programs are assigned to an appropriate faculty adviser whose job is to mentor the advisees:

- (i) by helping them plan and prepare a program of study,
- (ii) by assisting them to prepare for appropriate admissions tests administered by national agencies, e.g., MCAT, DAT, GRE, etc. The faculty adviser shares pertinent information and resources of such tests i.e. topics covered in the tests etc. with the advisee. Many professional schools use the results of such tests as important criteria for admission,
- (iii) by emphasizing the importance of General Education in analytical & critical thinking, which is also evaluated in the written portions of some post-baccalaureate admission tests, e.g., MCAT,
- (iv) by communicating the competitive nature of admission to the professional schools and the necessity of an "achiever's attitude" in the classroom,
- (v) by providing student "handbooks" which summarize the entire admissions process to a professional school, e.g., "The Pre-Med Handbook,"
- (vi) by sponsoring student clubs in pre-professional fields (e.g., The Para-Medico Club, The Pre-Vet Club, The Tri-Beta Honor Society, etc.), and coordinating meetings between student organizations and professional school admissions officers,
- (vii) by encouraging hands-on student participation in profession-related work outside the classroom (e.g., volunteering, or working in a health care facility for Pre-Meds or Pre-Dents),
- (viii) by polishing the communication skills of our student applicants for professional school interviews.

In addition, the departments offer courses and research opportunities in many contemporary branches of the sciences, e.g., molecular biology, physiology, microbiology, cell biology, and biochemistry. These courses and research experiences provide students with the necessary investigative and critical thinking skills to prepare them for advanced degree programs, or as entry-level scientists in the pharmaceutical and biotechnology industries.

### *Pre-Law*

While the American Bar Association does not recommend any particular undergraduate major to prepare for law school, a student should major in an area that is both personally satisfying and that provides the basic skills necessary to be successful in law school.

Students interested in preparing for law school should consult a pre-law adviser. The Office of Undergraduate Studies (JCKL 1450) would be happy to provide students with information and to direct them to faculty members who serve as pre-law advisers in various academic departments. These advisers would be happy to assist students in choosing courses and/or professors that will assist in developing the following skills and values:

- Analytical and Problem-Solving Skills
- Critical Reading Abilities
- Writing Skills
- Oral Communication and Listening Skills
- Research Skills
- Organizational Abilities and Management Skills
- Valuing Service to Others and Promoting Justice

### *Individualized Programs*

A student pursuing a baccalaureate degree may request an undergraduate major or minor concentration not listed in the Catalog, but consisting of courses offered herein. Such a major or minor may be across various disciplines; however, all General Education and other degree requirements must be met. Fifty percent of the individualized major or minor must be completed through Central Missouri after approval. The student must select a faculty member to serve as an adviser. Together they will develop a proposed plan of study which must receive the written approval of the student, faculty adviser, appropriate department chair(s), dean(s) and the Assistant Provost for Undergraduate Studies. The student must include a signed statement indicating he/she accepts full responsibility for the proposal. Upon final approval of the individualized major or minor, the student is notified and a copy of the proposal is filed with the Registrar. For more information, students should inquire at the Office of Undergraduate Studies (JCKL 1450).

## INTERNATIONAL STUDY

The University of Central Missouri believes strongly in the development of an international perspective among its students and faculty. One of the most exciting educational experiences available is the opportunity for students to spend a semester or year abroad. The following programs are some of the many available through the Office of International Programs in Ward Edwards 1200. For more information visit [www.ucmo.edu/international](http://www.ucmo.edu/international) or call 660-543-4195.

### **Alcala, Spain. [www.iuien-uah.com](http://www.iuien-uah.com)**

The University of Alcala offers classes ranging from humanities, computer sciences, law, medicine, and environmental studies. The University offers a Spanish language program with personalized courses for foreign students.

### **Angers, France. [www.univ-angers.fr](http://www.univ-angers.fr)**

UCM's link with Angers is designed to provide a direct exchange for French language students.

### **Australearn. [www.australearn.org](http://www.australearn.org)**

This organization provides an opportunity for UCM students to choose from 18 Australian universities. Courses are available in most majors and are on the southern hemisphere schedule.

### **Bremen, Germany. [www.uni-bremen.de](http://www.uni-bremen.de)**

Immerse yourself in German culture while enhancing your language skills at Bremen University. Central Missouri's newest exchange partner allows students to further their foreign language skills by participating in a German language program. Bremen University also offers courses in cultural studies, economics, human and health sciences, mathematics/computer sciences, and social sciences.

### **Buckinghamshire, England. [www.bcuc.ac.uk](http://www.bcuc.ac.uk)**

BCUC offers courses in a large number of degree programs and disciplines. Academic divisions include applied social sciences and humanities, business, design, health studies, leisure and tourism and technology.

### **Budapest, Hungary. [www.bke.hu](http://www.bke.hu)**

UCM students attend courses through the International Studies Center of Budapest University of Economic Sciences. The principal areas of study involve business and economics, but a variety of courses in social sciences and languages are also available.

### **Copenhagen, Denmark. [www.disp.dk](http://www.disp.dk)**

The Denmark International Studies (DIS) program at the University of Copenhagen has long been considered one of the outstanding study abroad programs available to American students. The major academic areas include business, liberal arts, architecture, and marine biology, with courses taught in English by Danish professors.

### **Debrecen, Hungary. [www.klte.hu/eng.htm](http://www.klte.hu/eng.htm)**

Hungary is one of the fastest growing and changing countries in the world. The University of Debrecen offers a variety of science and humanity classes in English to Central Missouri students. This is a lifetime experience and you should not let this unique opportunity pass.

### **Eindhoven, The Netherlands. [www.tue.nl](http://www.tue.nl)**

One of Europe's outstanding universities, Eindhoven University of Technology offers courses in English appropriate for students studying safety science, industrial hygiene, and industrial management.

### **Helsinki, Finland. [www.hut.fi/English](http://www.hut.fi/English)**

UCM's Department of Communication Disorders and the Department of Phonetics at the University of Helsinki exchange faculty and students on a regular basis.

### **Legon, Ghana. [www.umsi.edu/services/govdocs/wofact98/96.htm](http://www.umsi.edu/services/govdocs/wofact98/96.htm)**

Four universities within Missouri cooperate with the University of Ghana in providing our students with unique learning opportunities in western Africa. Each student group is accompanied by a Missouri professor, and the program offers a wide diversity of academic courses and field trip possibilities. Students must attend during the Fall semester.

### **Lódź, Poland. [www.uni.lodz.pl](http://www.uni.lodz.pl)**

Discover Poland! The University of Lódź is one of the most dynamic universities in Poland and offers a variety of classes in sciences and the humanities. This study site provides a unique flair of Eastern Europe.

### **London, England. [www.smsu.edu/studyaway/studyawa/programs/london/londns01.htm](http://www.smsu.edu/studyaway/studyawa/programs/london/londns01.htm)**

The Missouri-London program is a consortium of nine Missouri universities that cooperatively send faculty and students to a central facility in London. A variety of courses are available in the humanities, business, and social science, and additional options are available through the Imperial College of Science, Technology and Medicine.

### **Maastricht, The Netherlands. [www.ucmo.edu/mcts](http://www.ucmo.edu/mcts)**

Developed and coordinated by UCM's International Office, the Maastricht Center for Transatlantic Studies combines faculty and students from a variety of universities in Europe, the United States, and Mexico. The program's curriculum, developed and taught by an international faculty, exposes students to a variety of perspectives not found in any other academic setting.

### **Various Sites, Mexico. [www.itesm.mx](http://www.itesm.mx)**

With 27 campuses located throughout Mexico, the Tecnológico de Monterrey provides a variety of academic opportunities for Central Missouri students. Most exchange sites provide for language study plus courses in Mexican culture, business and tourism. Most courses are taught in Spanish.

### **New Zealand. [www.unitec.ac.nz](http://www.unitec.ac.nz)**

UNITEC offers a wide variety of courses, including various programs within architecture and design, arts and sciences, business, health and environmental sciences and applied technology.

**Oslo, Norway. [www.hio.no](http://www.hio.no)**

The Oslo University College offers a variety of different courses in English for UCM students with special expertise in pedagogy, multicultural work, business, and the study of professions. Many other areas of study are also offered. This study site is located in the capital of Norway and offers the perfect place for people interested in discovering Scandinavia.

**Örebro, Sweden. [www.oru.se/english/index.html](http://www.oru.se/english/index.html)**

Central Missouri students join other students from Europe and the United States in a variety of academic programs at the University of Örebro. Areas of study include business, communication, education, and social work.

**Osaka, Japan. [www.kansai-gaidai.ac.jp](http://www.kansai-gaidai.ac.jp)**

The focus of this exchange program with Kansai Gaidai University is on Asian studies, which includes business, political science, history, and art. Students study in English while simultaneously studying written and spoken Japanese.

**Pontypridd, Wales. [www.glam.ac.uk](http://www.glam.ac.uk)**

Located just outside Cardiff, the University of Glamorgan provides exchange opportunities in the areas of communication, criminology, history, art, tourism, and business. UCM students also have the opportunity to experience life in the Welsh culture. Exchanges with the University of Glamorgan are only possible for a full year.

**Preston, England. [www.uclan.ac.uk](http://www.uclan.ac.uk)**

The University of Central Lancashire has several unique learning opportunities for Central Missouri students, including health studies, sport science, fire science, and a variety of business and social science programs. Located in northwest England, Preston provides easy access to Liverpool, Wales, the Lake District, and Manchester.

**Sunshine Coast, Australia. [www.usc.edu.au](http://www.usc.edu.au)**

A variety of majors exist in the sciences, businesses, and humanities in approximately 32 undergraduate programs.

**Växjö, Sweden. [www.vxu.se](http://www.vxu.se)**

A variety of courses are taught in English by Swedish professors, and typically include field trips within and outside Sweden. Options include courses in international studies, education, international business, computer science, and psychology.

***Internships***

UCM participates in established internship programs in Maastricht, The Netherlands, and in London, England. Additional opportunities are available for students interested in other options.

***International Student Exchange Program (ISEP) [www.isep.org](http://www.isep.org)***

This organization allows its members to participate in balanced one-to-one exchanges of students between institutions in the U.S. and those in 35 other countries. UCM students can access universities around the world, and the program is particularly effective for students seeking non-traditional sites or those interested in improving their foreign language skills.

## LIST OF AVAILABLE PROGRAMS

- ACCOUNTING Functional Major, B.S.B.A. Degree  
 ACTUARIAL SCIENCE AND MATHEMATICS  
     Functional Major, B.S. Degree  
 AGRICULTURE-BUSINESS Functional Major, B.S. Degree  
 AGRICULTURAL TECHNOLOGY Functional Major,  
     B.S. Degree  
 ART Functional Major, B.S.Ed. Degree  
 ATHLETIC TRAINING Functional Major, B.S. Degree  
 AUTOMOTIVE TECHNOLOGY MANAGEMENT  
     Functional Major, B.S. Degree  
 AVIATION TECHNOLOGY, Associate in Science Degree  
 AVIATION TECHNOLOGY Functional Major, B.S. Degree  
 BIOLOGY Functional Major, B.S.Ed. Degree  
 BIOLOGY Functional Major, B.S. Degree  
 BIOLOGY Major, B.A. Degree  
 BIOLOGY Major, B.S. Degree  
 BROADCAST MEDIA Major, B.S. Degree  
 BUSINESS EDUCATION Functional Major, B.S.Ed. Degree  
 BUSINESS EDUCATION Major, B.S.Ed. Degree  
 CHEMISTRY Functional Major, B.S.Ed. Degree  
 CHEMISTRY Functional Major, B.S. Degree  
 CHEMISTRY Major, B.A. Degree  
 CHILD AND FAMILY DEVELOPMENT Functional Major,  
     B.S. Degree  
 COMMERCIAL ART Functional Major, B.F.A. Degree  
 COMMUNICATION Major, B.A. Degree  
 COMPUTER-AIDED DRAFTING AND DESIGN  
     TECHNOLOGY Functional Major, B.S. Degree  
 COMPUTER INFORMATION SYSTEMS Functional Major,  
     B.S.B.A. Degree  
 COMPUTER SCIENCE Functional Major, B.S. Degree  
 CONSTRUCTION MANAGEMENT Functional Major,  
     B.S. Degree  
 COOPERATIVE ENGINEERING 3-2 Functional Major,  
     B.A. Degree  
 CORPORATE COMMUNICATION Major, B.S. Degree  
 CRIMINAL JUSTICE Major, B.S. Degree  
 CRISIS & DISASTER MANAGEMENT Major, B.S. Degree  
 DIETETICS Functional Major, B.S. Degree  
 EARTH SCIENCE Functional Major, B.S.Ed. Degree  
 EARTH SCIENCE Major, B.A. Degree  
 ECONOMICS Major, B.A. Degree  
 ECONOMICS Major, B.S. Degree  
 ELECTRONICS ENGINEERING TECHNOLOGY  
     Functional Major, B.S. Degree  
 ELECTRONICS TECHNOLOGY Functional Major, B.S. Degree  
 ELEMENTARY EDUCATION Functional Major, B.S.Ed. Degree  
 ENGINEERING TECHNOLOGY Functional Major, B.S. Degree  
 ENGLISH Functional Major, B.S.Ed. Degree  
 ENGLISH Major, B.A. Degree  
 ENGLISH Major, B.S.Ed. Degree  
 FASHION: TEXTILES AND CLOTHING IN BUSINESS  
     Functional Major, B.S. Degree  
 FINANCE Functional Major, B.S.B.A. Degree  
 FRENCH Major, B.A. Degree  
 FRENCH Major, B.S.Ed. Degree  
 FRENCH Major, B.S. Degree  
 GENERAL RECREATION Major, B.S. Degree  
 GEOGRAPHY Major, B.A. Degree  
 GEOGRAPHY Major, B.S. Degree  
 GEOLOGY Functional Major, B.S. Degree  
 GRAPHIC ARTS TECHNOLOGY MANAGEMENT  
     Functional Major, B.S. Degree  
 HISTORY Major, B.A. Degree  
 HISTORY Major, B.S. Degree  
 HOTEL AND RESTAURANT ADMINISTRATION  
     Functional Major, B.S. Degree  
 INDUSTRIAL TECHNOLOGY Functional Major, B.S. Degree  
 INDUSTRIAL TECHNOLOGY Major, B.S. Degree  
 INDUSTRIAL TECHNOLOGY-MANUFACTURING  
     MANAGEMENT Functional Major, B.S. Degree  
 INTERIOR DESIGN Functional Major, B.F.A. Degree  
 JOURNALISM Major, B.S. Degree  
 MANAGEMENT Functional Major, B.S.B.A. Degree  
 MARKETING Functional Major, B.S.B.A. Degree  
 MATHEMATICS Functional Major, B.S.Ed. Degree  
 MATHEMATICS Major, B.A. Degree  
 MATHEMATICS Major, B.S.Ed. Degree  
 MATHEMATICS Major, B.S. Degree  
 MEDICAL TECHNOLOGY Functional Major, B.S. Degree  
 MIDDLE SCHOOL-JUNIOR HIGH SCHOOL Major,  
     B.S.Ed. Degree  
 MUSIC EDUCATION Functional Major, B.M.E. Degree  
 MUSIC Functional Major, B.M. Degree  
 MUSIC Major, B.A. Degree  
 NURSING Functional Major, B.S. Degree  
 OCCUPATIONAL EDUCATION Functional Major, B.S. Degree  
 OCCUPATIONAL SAFETY AND HEALTH Functional Major,  
     B.S. Degree  
 PHOTOGRAPHY Major, B.S. Degree  
 PHYSICAL EDUCATION Functional Major, B.S. Degree  
 PHYSICS Functional Major, B.A. Degree  
 PHYSICS Functional Major, B.S. in Ed. Degree  
 PHYSICS Functional Major, B.S. Degree  
 POLITICAL SCIENCE Major, B.A. Degree  
 POLITICAL SCIENCE Major, B.S. Degree  
 PSYCHOLOGY Major, B.A. Degree  
 PSYCHOLOGY Major, B.S. Degree  
 PUBLIC RELATIONS Major, B.S. Degree  
 SAFETY MANAGEMENT Major, B.S. Degree  
 SECONDARY EDUCATION B.M.E. Degrees  
 SECONDARY EDUCATION B.S.Ed. Degrees  
 SOCIAL STUDIES Functional Major, B.S.Ed. Degree  
 SOCIAL WORK Functional Major, B.S.W. Degree  
 SOCIOLOGY Major, B.A. Degree  
 SOCIOLOGY Major, B.S. Degree  
 SPANISH Major, B.A. Degree  
 SPANISH Major, B.S.Ed. Degree  
 SPANISH Major, B.S. Degree  
 SPECIAL EDUCATION Functional Major, B.S.Ed. Degree  
 SPEECH COMMUNICATION AND THEATRE Major,  
     B.S.Ed. Degree  
 SPEECH COMMUNICATION Major, B.A. Degree  
 SPEECH COMMUNICATION Major, B.S. Degree  
 SPEECH-LANGUAGE PATHOLOGY Functional Major,  
     B.S. Degree

STUDIO ART Functional Major, B.F.A. Degree  
 TECHNOLOGY EDUCATION Major, B.S.Ed. Degree  
 THEATRE Functional Major, B.F.A. Degree  
 THEATRE Major, B.A. Degree  
 TOURISM Major, B.S. Degree  
 VOCATIONAL AGRICULTURE EDUCATION Functional Major,  
 B.S.Ed. Degree  
 VOCATIONAL FAMILY AND CONSUMER SCIENCES  
 Functional Major, B.S.Ed. Degree

## PREFIXES FOR COURSES

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<b>ACCT</b> - Accounting	<b>EET</b> - Electronics Engineering Technology	<b>ML</b> - Modern Languages
<b>AE</b> - Academic Enrichment	<b>ENGL</b> - English	<b>MMGT</b> - Manufacturing Management
<b>AERO</b> - Aerospace	<b>ET</b> - Electronics Technology	<b>MS</b> - Military Leadership
<b>AGRI</b> - Agriculture	<b>FACS</b> - Family and Consumer Sciences	<b>MUS</b> - Music
<b>ANTH</b> - Anthropology	<b>FAME</b> - Fashion and Apparel Merchandising	<b>NET</b> - Network
<b>ART</b> - Art	<b>FIN</b> - Finance	<b>NLSL</b> - Nursing Leadership in Service Learning
<b>A&amp;S</b> - Arts and Sciences	<b>FOOD</b> - Food	<b>NUR</b> - Nursing
<b>AT</b> - Athletic Training	<b>FREN</b> - French	<b>PE</b> - Physical Education
<b>AVIA</b> - Aviation	<b>GEOG</b> - Geography	<b>PHIL</b> - Philosophy
<b>BIOL</b> - Biology	<b>GER</b> - German	<b>PHOT</b> - Photography
<b>BLAW</b> - Legal Studies	<b>GRAP</b> - Graphics	<b>PHYS</b> - Physics
<b>BTE</b> - Business Teacher Education	<b>HED</b> - Health Education	<b>POLS</b> - Political Science
<b>CD</b> - Communication Disorders	<b>HIST</b> - History	<b>PR&amp;T</b> - Power & Transportation
<b>CFD</b> - Child and Family Development	<b>HM</b> - Hospitality Management	<b>PSY</b> - Psychology
<b>CHEM</b> - Chemistry	<b>HONR</b> - Honors	<b>REC</b> - Recreation
<b>CHIN</b> - Chinese	<b>HRM</b> - Human Resource Management	<b>REL</b> - Religious Studies
<b>CIS</b> - Computer Information Systems	<b>ICAP</b> - Capstone Integrative Studies	<b>SAFE</b> - Safety Science
<b>CJ</b> - Criminal Justice	<b>IGEN</b> - General Integrative Studies	<b>SOC</b> - Sociology
<b>CMGT</b> - Construction Management	<b>INDM</b> - Industrial Management	<b>SOSC</b> - Social Science
<b>COMM</b> - Communication	<b>INDT</b> - Industrial Technology	<b>SOWK</b> - Social Work
<b>COUN</b> - Counselor Education	<b>INST</b> - Instructional Technology	<b>SPAN</b> - Spanish
<b>CS</b> - Computer Science	<b>ISP</b> - International Studies	<b>THEA</b> - Theatre
<b>CTE</b> - Career and Technology Education	<b>LIS</b> - Library Science and Information Services	<b>T&amp;OE</b> - Technology and Occupational Education
<b>D&amp;N</b> - Dietetics and Nutrition	<b>MATH</b> - Mathematics	<b>TOUR</b> - Tourism
<b>DRED</b> - Driver Education	<b>MGT</b> - Management	<b>WS</b> - Women's Studies
<b>EASC</b> - Earth Science	<b>MKT</b> - Marketing	
<b>ECON</b> - Economics		
<b>EDCI</b> - Curriculum and Instruction		
<b>EDSP</b> - Special Education		

# College of Arts, Humanities, and Social Sciences

## Arts and Sciences

**A&S 1244 Special Topics (1-3)** Individual or group work in the arts and sciences.

### Integrative Studies General

**IGEN 4244 Comparative Cross-Cultural Cinema\* (3)**  
Comparison of films with various sub-themes relating to cross-cultural topics such as internationalism, racism and gender. \*Not available for graduate credit.

## Religious Studies

In the area of Religious Studies, the second digit in the course number stands for the following: 1-Literature of Religions, 2-History of Religions, 3-Ethics and Moral Issues, 4-Interdisciplinary Studies Including Theologies, 5-Religion and Society, 9-Research and Readings.

### Center for Religious Studies Statement of Policy

Students are encouraged to seek advisement concerning courses taken toward a minor in Religious Studies from the Director of the Center for Religious Studies in Wood 124 or at selvidge@ucmo.edu.

## RELIGIOUS STUDIES

### Minor for a Bachelor's Degree

UCM does not confer teacher certification for this minor (839)

The graduate with a minor in Religious Studies will use the knowledge, experience, and skills obtained when this program is completed to:

- Recognize differences between the academic study of religions and the personal or corporate practice of religions.
- Reflect upon personal values and value systems in a global environment by using symbolic approaches to describe problems, identify alternative solutions, and make reasoned choices among those solutions.
- Compare and contrast definitions of religion and the opinions of scholars within the fields of Religious Studies.
- Demonstrate awareness and recollection of a wide variety of religious beliefs and practices within a global, pluralistic, non-racist, and non-sexist perspective.
- Recognize conflicts within and between value systems that may have their roots within religious traditions.
- Comprehend a variety of methodologies used in the study of religions which will help to develop skills in problem solving, analyzing, and interpreting data.
- Interpret primary religious texts and experiences by summarizing, evaluating, and articulating a point of view.
- Consider multiple perspectives, recognize biases, and cope with ambiguous points of view while listening carefully and thoughtfully to the ideas of others.
- Develop a vocabulary rooted in the study of religions that will facilitate understanding of literatures, themes, and influences upon our society and the world.
- Converse in an intelligent manner about a variety of cultures, beliefs, rituals, religious literatures, world systems, and ethical issues with people from around the globe.

Sem. Hours

<b>MINOR REQUIREMENTS</b> . . . . .	<b>21</b>
REL 2210 Religions in America or	
REL 3210 Comparative World Religions . . . . .	3
REL 2310 World Views & Values or	
REL 2510 Gender & Religions . . . . .	3
REL 4410 Modern Religious Thought or	
REL 4520 Legal Issues & Religion . . . . .	3
REL 3900 Special Projects in Religion . . . . .	3
Elective from the following . . . . .	3
REL 1130 The Bible as Literature . . . . .	3

REL 1510 Exploring Religion . . . . .	3
Electives from the following or other approved electives . . . . .	6
ART 1815 Art History Survey I . . . . .	3
ART 1825 Art History Survey II . . . . .	3
*ENGL 4450 The Age of Milton . . . . .	3
*ENGL 4620 Early American Literature . . . . .	3
PHIL 3710 Philosophy of Religion . . . . .	3
HIST 4412 Era of Renaissance & Reformation . . . . .	3
THEA 4400 Lit. & History of Theatre I . . . . .	3
THEA 4420 Lit. & History of Theatre II . . . . .	3
SOC 4885 Religion and Society . . . . .	3

**GENERAL EDUCATION REQUIREMENTS** (pages 34-43) In the minor, if elected, REL 1510 fulfills 3 s.h. of Div. II C

\*Course has prerequisite(s) not listed in the program.

### Literature of Religions

**REL 1130 The Bible as Literature (3)** A literary and historical critical analysis of the Old Testament/Hebrew Bible, the Apocrypha, and the New Testament.

**REL 2110 Images of Jesus of Nazareth (3)** An investigation of first and second century literature including the gospels of Matthew, Mark, Luke, John and apocryphal writings.

### History of Religions

**REL 2210 Religions in America (3)** Historical development of American religious pluralism.

**REL 3210 Comparative World Religions (3)** Similar and contrasting aspects of the world's major religions.

### Ethics and Moral Issues

**REL 2310 World Views and Values (3)** Studies in selected contemporary religio-ethical problems. Topics will include bio-medical, computer, ecological, and gender issues, corporate responsibility, war and peace, racism, and death and dying.

### Interdisciplinary Studies Including Theologies

**REL 2410 Exploring Religions of Africa, the Caribbean and African-Americans in the U.S.A. (3)** Explores the diversity and religious traditions in Africa, the Caribbean and among African-Americans in the U.S., emphasizing beliefs, rituals and ethical constraints.

**REL 4410 Modern Religious Thought (3)** Selected contemporary religious writers. Topics may include liberation theology, civil religion, feminist criticism, and black theology. Prerequisite: one course in religious studies.

### Religion and Society

**REL 1510 Exploring Religion (3)** Definitions, experiences, expressions, beliefs, socio-cultural contexts, and concept of self within religious traditions and practices.

**REL 2510 Gender and Religions (3)** Studies in how major world religions view the social responsibilities, activities, and relationships of males and females.

**REL 4520 Legal Issues and Religion (3)** A survey of historic and recent legal issues dealing with the relationship between religion (church) and the state. Topics will include: Bible reading and curriculum in the schools, conscientious objectors, taxation and the church, prayer and the Pledge of Allegiance. Prerequisite: REL 1510 or PHIL 3710 or equivalent.

### Research and Readings

**REL 3900 Special Projects in Religion (1-3)** Individual or group study of problems in special areas of interest, such as research projects and travel seminars. *May be repeated for a maximum of 6 semester hours.*

## Art

In the Department of Art, the second digit in the course number stands for the following: 0-Art Problems, 1-Drawing, 2-Figure Drawing and Life Drawing, 3-Design, 4-Sculpture and Ceramics, 5-Painting, 6-Commercial Art, 7-Printmaking, 8-Art History, 9-Art Education.

**NOTE:** The University of Central Missouri is an accredited institutional member of the National Association of Schools of Art and Design, 11250 Roger Bacon Dr., Suite 21, Reston, VA, 20190-5248; phone 703-437-0700.

### Department of Art Statement of Policy

Students in studio courses in art are required to furnish their own materials except certain studio equipment and some highly specialized materials provided by the Department. All work when completed is under the control of the Department until the end of the academic year. The student is expected to have a representative portfolio of his/her work available for presentation at any time prior to graduation.

Each candidate for a degree may be required to leave with the Department of Art one or more pieces of original work. These are added to the collection of the work of graduates and will form a permanent University collection.

During the sophomore year or during the first semester after transferring from another institution, all candidates for degrees will present a portfolio of work to be reviewed by the faculty for the purpose of acceptance into the Bachelor of Fine Arts program.

During the senior year, all candidates for degrees will present an exhibition of representative work to be reviewed by the faculty as partial graduation approval. Specific information about reviews and exhibitions may be obtained in the Department of Art office.

### ART

#### Functional Major, Bachelor of Science in Education Degree

Certification to teach art in grades K-12 (41-375)

The graduate with a Bachelor of Science in Education degree in Art will use the knowledge and skills obtained in these programs to:

- Demonstrate critical and creative thinking by incorporating theories and practices in art and design production adequate for innovative expression in the visual arts.
- Communicate and support informed and artistically sensitive interpretations and judgments about his/her own work as well as visual forms made by others by using perceptual, critical and aesthetic concepts that underlie the disciplines of art and design.
- Recognize and describe major periods, styles and artists in art history, as well as the historical forces that influence aesthetics, creativity and critical theory.
- Facilitate a culturally rich and visually sensitive society by recognizing and utilizing the unique and important artistic contributions made by women and men from diverse racial, geographical and cultural groups.
- Use technology in creative, critical and teaching processes as well as a resource for producing art and gathering information about art, art history, aesthetics and art criticism.
- Exhibits evidence of an understanding of the professional standards and practices for seeking employment and achieving long-term success in their degree program career field.
- Students attaining the Bachelor of Science in Education (BSE) for Art will also meet the Missouri Standards for Teacher Education Programs, including the Subject Specific Competencies for Beginning Art Teachers.

Sem. Hours

#### FUNCTIONAL MAJOR REQUIREMENTS . . . . . 57

ART 1110	Drawing I	3
ART 1120	Drawing II	3
ART 3209	Figure Construction	3
ART 1315	Design I	3
ART 1325	Design II	3
ART 3314	Fibers	3
ART 2412	Ceramics I	3
ART 2420	Sculpture I	3

ART 2511	Painting I	3
ART 2710	Introduction to Printmaking	3
ART 1800	Ideas & the Visual Arts	3
ART 1825	Art History Survey II	3
ART 3915	Methods of Teaching Art I: Elementary	3
ART 3920	Methods of Teaching Art II: Secondary	3
ART 1815	Art History Survey I, 3 or	
ART 1835	Survey of Non-Western Art History, 3	3
ART 4850	20th Century Art & Architecture, 3 or	
ART 4860	Contemporary Art & Design, 3	3
ICAP 4221	Artists in Contemporary Society	3

Upper-level concentration in studio art in one of the following areas: drawing, painting, watercolor, sculpture, fibers, printmaking, ceramics . . . . . 6

#### MINOR NOT REQUIRED

#### GENERAL EDUCATION REQUIREMENTS (pages 34-43)

In the functional major, ART 1800 fulfills 3 s.h. of Div. II C; ICAP 4221 fulfills 3 s.h. of Div. IV B.) . . . . . 42

Secondary Education students must have one course in a physical or earth science and one in a biological science in Div. II A.

HIST 1350	Div. II B or	
HIST 1351	Div. II B (required)	3
POLS 1510	Div. II B (required)	3
PSY 4230	Psy. of Adolescence	3

Secondary Education students will be allowed to substitute PSY 4230 to fulfill 3 s.h. of Div. III.

#### PROFESSIONAL EDUCATION REQUIREMENTS (page 115) . . . . . 28

#### MINIMUM TOTAL . . . . . 127

### ART

#### Minor, Bachelor of Science in Education Degree

Certification to teach art in grades K-9. Secondary majors should see the Director of Clinical Services and Certification. (369)

Sem. Hours

#### MINOR REQUIREMENTS . . . . . 27

ART 1110	Drawing I	3
ART 1315	Design I	3
ART 3314	Fibers	3
ART 2412	Ceramics I	3
ART 2420	Sculpture I	3
ART 2710	Introduction to Printmaking	3
ART 3915	Methods of Teaching Art I: Elementary	3
ART 2511	Painting I, 3 or	
ART 3510	Watercolor, 3	3
ART 1815	Art History Survey I, 3 or	
ART 1825	Art History Survey II, 3	3

### ART

#### Minor for a Bachelor's Degree

Except for a Bachelor of Science in Education Degree (484)

Sem. Hours

#### MINOR REQUIREMENTS . . . . . 24

ART 1110	Drawing I	3
ART 1120	Drawing II	3
ART 3209	Figure Construction	3
ART 1315	Design I	3
ART 1325	Design II	3
ART 1815	Art History Survey I	3
ART 1825	Art History Survey II	3
Elective in Art		3

**COMMERCIAL ART**

**Functional Major, Bachelor of Fine Arts Degree**  
(47-372)

The graduate with a Bachelor of Fine Arts degree in Art will use the knowledge and skills obtained in these programs to:

- Demonstrate critical and creative thinking by incorporating theories and practices in art and design production adequate for innovative expression in the visual arts.
- Communicate and support informed and artistically sensitive interpretations and judgments about his/her own work as well as visual forms made by others by using perceptual, critical and aesthetic concepts that underlie the disciplines of art and design.
- Recognize and describe major periods, styles and artists in art history, as well as the historical forces that influence aesthetics, creativity and critical theory.
- Facilitate a culturally rich and visually sensitive society by recognizing and utilizing the unique and important artistic contributions made by women and men from diverse racial, geographical and cultural groups.
- Use technology in creative, critical and teaching processes as well as a resource for producing art and gathering information about art, art history, aesthetics and art criticism.
- Exhibits evidence of an understanding of the professional standards and practices for seeking employment and achieving long-term success in their degree program career field.

Sem. Hours

**FUNCTIONAL MAJOR REQUIREMENTS . . . . . 87**

ART 4020	Studio Seminar (Portfolio)	3
ART 1110	Drawing I	3
ART 1120	Drawing II	3
ART 1315	Design I	3
ART 1325	Design II	3
ART 2335	Design III	3
ART 2511	Painting I	3
ART 3510	Watercolor	3
ART 2610	Introduction to Commercial Art	3
ART 2710	Introduction to Printmaking	3
ART 1800	Ideas & the Visual Arts	3
ART 1825	Art History Survey II	3
ICAP 4221	Artists in Contemporary Society	3
ART 2412	Ceramics I, 3 or	
ART 2420	Sculpture I, 3	3
ART 1815	Art History Survey I, 3 or	
ART 1835	Survey of Non-Western Art History, 3	3
ART 4850	20th Century Art & Architecture, 3 or	
ART 4860	Contemporary Art & Design, 3	3
Elective in art . . . . . 3		
Departmentally approved electives from one of the following areas . . . . . 36		
Area 1 Graphic Design		
Area 2 Illustration		
List available from the Chair of the Art Department.		

**MINOR NOT REQUIRED**

**GENERAL EDUCATION REQUIREMENTS** (pages 34-43)

In the functional major, ART 1800 fulfills 3 s.h. of Div. II C;

ICAP 4221 fulfills 3 s.h. of Div. IV B . . . . . 42

**MINIMUM TOTAL . . . . . 129**

**INTERIOR DESIGN**

**Functional Major, Bachelor of Fine Arts Degree**  
(47-374)

The graduate with a Bachelor of Fine Arts degree in Art will use the knowledge and skills obtained in these programs to:

- Demonstrate critical and creative thinking by incorporating theories and practices in art and design production adequate for innovative expression in the visual arts.
- Communicate and support informed and artistically sensitive interpretations and judgments about his/her own work as well as visual forms made by others by using perceptual, critical and aesthetic concepts that underlie the disciplines of art and design.

- Recognize and describe major periods, styles and artists in art history, as well as the historical forces that influence aesthetics, creativity and critical theory.
- Facilitate a culturally rich and visually sensitive society by recognizing and utilizing the unique and important artistic contributions made by women and men from diverse racial, geographical and cultural groups.
- Use technology in creative, critical and teaching processes as well as a resource for producing art and gathering information about art, art history, aesthetics and art criticism.
- Exhibits evidence of an understanding of the professional standards and practices for seeking employment and achieving long-term success in their degree program career field.

Sem. Hours

**FUNCTIONAL MAJOR REQUIREMENTS . . . . . 87**

ART 4020	Studio Seminar	3
ART 1110	Drawing I	3
ART 1120	Drawing II	3
ART 1315	Design I	3
ART 1325	Design II	3
ART 2310	Introduction to Interior Design	3
ART 2320	Residential Interior Design	3
ART 2335	Design III	3
ART 3305	Interior Design Presentation Tech.	3
ART 3310	Traditional Interiors	3
ART 3320	Prof. Practice for Interior Designers	3
ART 3330	Restaurant & Store Planning	3
ART 3340	Interior Detailing & Furniture Design	3
ART 4340	Corporate & Institutional Design	3
ART 1800	Ideas & the Visual Arts	3
ART 1825	Art History Survey II	3
ART 3800	History of Furniture & Interiors	3
FAME 2442	Textiles	3
FAME 4410	Architectural Interiors	3
GRAP 1110	Fundamentals of Drafting	3
GRAP 2170	Intro. to Computer-Aided Drafting	2
GRAP 3160	Residential Arch. Drawing	3
ICAP 4221	Artists in Contemporary Society	3
ART 2412	Ceramics I, 3 or	
ART 2420	Sculpture I, 3	3
ART 2511	Painting I, 3 or	
ART 3510	Watercolor, 3	3
ART 1815	Art History Survey I, 3 or	
ART 1835	Survey of Non-Western Art History, 3	3
ART 4850	20th Century Art & Architecture, 3 or	
ART 4860	Contemporary Art & Design, 3	3
Electives from the following . . . . . 6		
ART 2610	Intro. to Commercial Art	3
ART 2710	Introduction to Printmaking	3
ART 3314	Fibers	3
ART 4310	Design Internship	3
GRAP 4162	Commercial Arch. Drawing	3
GRAP 4170	CADD for Eng. Tech.	3
THEA 1600	Stagecraft	3

**MINOR NOT REQUIRED**

**GENERAL EDUCATION REQUIREMENTS** (pages 34-43)

In the functional major, ART 1800 fulfills 3 s.h. of Div. II C;

ICAP 4221 fulfills 3 s.h. of Div. IV B) . . . . . 42

**MINIMUM TOTAL . . . . . 129**

**STUDIO ART**

**Functional Major, Bachelor of Fine Arts Degree**  
(47-378)

The graduate with a Bachelor of Fine Arts degree in Art will use the knowledge and skills obtained in these programs to:

- Demonstrate critical and creative thinking by incorporating theories and practices in art and design production adequate for innovative expression in the visual arts.
- Communicate and support informed and artistically sensitive interpretations and judgments about his/her own work as well



as visual forms made by others by using perceptual, critical and aesthetic concepts that underlie the disciplines of art and design.

- Recognize and describe major periods, styles and artists in art history, as well as the historical forces that influence aesthetics, creativity and critical theory.
- Facilitate a culturally rich and visually sensitive society by recognizing and utilizing the unique and important artistic contributions made by women and men from diverse racial, geographical and cultural groups.
- Use technology in creative, critical and teaching processes as well as a resource for producing art and gathering information about art, art history, aesthetics and art criticism.
- Exhibits evidence of an understanding of the professional standards and practices for seeking employment and achieving long-term success in their degree program career field.

Sem. Hours

**FUNCTIONAL MAJOR REQUIREMENTS . . . . . 86**

ART 1110	Drawing I . . . . .	3
ART 1120	Drawing II . . . . .	3
ART 3110	Drawing III . . . . .	3
ART 3209	Figure Construction . . . . .	3
ART 1315	Design I . . . . .	3
ART 1325	Design II . . . . .	3
ART 2335	Design III . . . . .	3
ART 2412	Ceramics I . . . . .	3
ART 2420	Sculpture I . . . . .	3
ART 2511	Painting I . . . . .	3
ART 2710	Introduction to Printmaking . . . . .	3
ART 1800	Ideas & the Visual Arts . . . . .	3
ART 1825	Art History Survey II . . . . .	3
ICAP 4221	Artists in Contemporary Society . . . . .	3
ART 1815	Art History Survey I, 3 or	
ART 1835	Survey of Non-Western Art History, 3 . . . . .	3
ART 4850	20th Century Art & Architecture, 3 or	
ART 4860	Contemporary Art & Design, 3 . . . . .	3
Electives in art . . . . .		17
Elect one of the following areas of specialization . . . . .		21
Area 1 Sculpture		
ART 4020	Studio Seminar . . . . .	3
ART 3420	Sculpture II . . . . .	9
ART 4420	Sculpture III . . . . .	9
Area 2 Painting		
ART 3510	Watercolor . . . . .	3
ART 3511	Painting II . . . . .	9
ART 4511	Painting III . . . . .	9
Area 3 Ceramics		
ART 4020	Studio Seminar . . . . .	3
ART 3412	Ceramics II . . . . .	9
ART 4412	Ceramics III . . . . .	9
Area 4 Printmaking		
ART 3710	Intaglio . . . . .	3
ART 3720	Lithography . . . . .	3
ART 3730	Serigraphy . . . . .	3
ART 3740	Relief Printmaking . . . . .	3
Electives in Printmaking . . . . .		9

**MINOR NOT REQUIRED**

<b>GENERAL EDUCATION REQUIREMENTS (pages 34-43)</b>	
In the functional major, ART 1800 fulfills 3 s.h. of Div. II D;	
ICAP 4221 fulfills 3 s.h. of Div. IV B) . . . . .	42
<b>MINIMUM TOTAL . . . . .</b>	<b>128</b>

**Art Problems**

- ART 4010 Special Projects in Art (1-3)** *May be repeated for a maximum of 6 semester hours.*
- ART 4020 Studio Seminar (3)** By arrangement, with consent of the instructor involved, and through individual directed study. *May be repeated for a maximum of 6 semester hours.* Prerequisite: senior year with consent.

**Drawing**

- ART 1110 Drawing I (3)** Basic principles of perspective and composition through problems in landscape and still life.
- ART 1120 Drawing II (3)** Compositional drawing in various media including ink wash and pen and ink. Prerequisite: ART 1110.
- ART 3110 Drawing III (3)** The application of fundamentals of drawing to creative problems in figure, still life, and landscape composition. *May be repeated for a maximum of 9 semester hours.* Prerequisites: ART 1120 and ART 3209.

**Figure Drawing and Life Drawing**

- ART 3209 Figure Construction (3)** The skeletal and muscular construction of the human figure as it relates to the action and proportions of the figure. Drawing from life. Prerequisite: ART 1110. An additional fee is associated with this course.
- ART 3210 Life Drawing (3)** Drawing from a live model with the emphasis on techniques. *May be repeated for a maximum of 6 semester hours.* Prerequisite: ART 3209. An additional fee is associated with this course.

**Interior Design**

- ART 1315 Design I (3)** Introduces the use of the visual elements within the context of the principles of design.
- ART 1325 Design II (3)** The study of color, its application within the design process and its use as an integral component in design. Prerequisite: ART 1315.
- ART 2310 Introduction to Interior Design (3)** A practical guide to the fundamentals of interior design and an overview of the interior design profession. Prerequisites: ART 1110 and ART 1315.
- ART 2320 Residential Interior Design (3)** The design process as it is applied to interior design problems. An emphasis on the elements of residential design. Prerequisites: ART 1120, ART 1325 and ART 2310 for art majors; GRAP 1110 or consent of instructor for nonmajors.
- ART 2335 Design III (3)** Exploration of design on a three-dimensional level utilizing design principles in the development of structural forms and the manipulation of physical space. Prerequisite: ART 1325.
- ART 3305 Interior Design Presentation Techniques (3)** The techniques necessary for the presentation of interior design solutions. Both traditional media and computer-aided technology will be implemented. Prerequisites: ART 1325 and ART 2310.
- ART 3310 Traditional Interiors (3)** A study of traditional interior design problems. An emphasis in architectural interior elements, interior surfaces, finishes, and application. Prerequisites: ART 2320 and GRAP 3160 for art majors; GRAP 1110 or consent of instructor for nonmajors.
- ART 3314 Fibers (3)** Basic course in the fundamentals and techniques of creating on and off loom structures and fabrics. *May be repeated for a maximum of 9 semester hours.* An additional fee is associated with this course.
- ART 3320 Professional Practice for Interior Designers (3)** The study of interior design business practices. The history of the profession and considerations required when organizing and managing a business. Prerequisite: ART 2310.
- ART 3330 Restaurant and Store Planning (3)** Intermediate work in interior design, studio problems, lighting, and full presentation techniques with emphasis on store and restaurant planning. An additional fee is associated with this course. Prerequisite: ART 3310 for art majors; GRAP 1110 or consent of instructor for nonmajors.
- ART 3340 Interior Detailing and Furniture Design (3)** The detailing of interior environments and furniture design to include casework and furnishings through a coordinated study of structure, style, and materials. Prerequisite: ART 2320.
- ART 4310 Design Internship (2-3)** An elective course for interior design and commercial art majors operated in conjunction with various business firms, wherein students are afforded the opportunity of working alongside professional designers in the field. *May be repeated for a maximum of 6 semester hours.* Prerequisite: a major on the undergraduate level of either interior design or commercial art and with approval of departmental committee.

**ART 4324 Papermaking (3)** Introduces the student to western techniques in hand papermaking: sheet forming and two- and three-dimensional paper structures. *May be repeated for a maximum of 9 semester hours.* Prerequisite: 20 semester hours of art.

**ART 4340 Corporate and Institutional Design (3)** Increasing emphasis on space arrangement for commercial and institutional use; introduction to specifications of materials and specification writing; emphasis in office design. *May be repeated for a maximum of 6 semester hours.* An additional fee is associated with this course. Prerequisite: ART 3330 for art majors; GRAP 3160 or consent of instructor for nonmajors.

### Sculpture and Ceramics

**ART 2412 Ceramics I (3)** Basic skills on the three pottery making methods: e.g., slab, coil, and pottery wheel with emphasis on aesthetic qualities. Wheel throwing will be accented. Basic experiences in kiln stacking and firing. An additional fee is associated with this course.

**ART 2420 Sculpture I (3)** Fundamentals in sculpture including additive, subtractive, and construction techniques. An additional fee is associated with this course.

**ART 3412 Ceramics II (3)** Extended studio research in pottery design and forming. Technical methods in the preparation of clay bodies, glazes, and kiln firing and maintenance. *May be repeated for a maximum of 9 semester hours.* Prerequisite: ART 2412. An additional fee is associated with this course.

**ART 3420 Sculpture II (3)** Individual problems in techniques of sculpture utilizing a variety of media. *May be repeated for a maximum of 9 semester hours.* Prerequisite: ART 2420. An additional fee is associated with this course.

**ART 4412 Ceramics III (3)** Production of advanced ceramics projects with emphasis on the search for individual styles and choices of forming methods. Advanced study of glaze chemistry, clay body formulation, and kiln construction. *May be repeated for a maximum of 9 semester hours.* Prerequisite: ART 3412 or consent of instructor. An additional fee is associated with this course.

**ART 4420 Sculpture III (3)** Advanced individual problems in techniques of sculpture utilizing a variety of media. *May be repeated for a maximum of 9 semester hours.* Prerequisite: ART 3420. An additional fee is associated with this course.

### Painting

**ART 2511 Painting I (3)** The creative art process with emphasis on the basic visual concepts and styles, ranging from the care and use of painting tools to the execution of paintings, and including some painting history. Prerequisites: ART 1110 and ART 1315.

**ART 3510 Watercolor (3)** Application of principles of composition in the medium of transparent watercolor. *May be repeated for a maximum of 9 semester hours.* Prerequisites: ART 1110 and ART 1315.

**ART 3511 Painting II (3)** Study and practice in basic painting techniques. *May be repeated for a maximum of 9 semester hours.*

**ART 3513 Painting II: Plein Air (3)** Working in the landscape utilizing direct observation to study and practice basic painting skills. Prerequisite: ART 2511

**ART 3515 Painting II: Figure (3)** Working from the figure utilizing direct observation to study and practice basic painting skills. Prerequisite: ART 2511

**ART 4511 Painting III (3)** Application of principles of composition in the medium of oil or acrylic paint. *May be repeated for a maximum of 9 semester hours.*

**ART 4513 Painting III: Plein Air (3)** Working in the landscape utilizing direct observation to develop advanced painting skills. Prerequisite: ART 3511 or ART 3513 or ART 3515.

**ART 4515 Painting III: Figure (3)** Working from the figure utilizing direct observation to develop advanced painting skills. Prerequisite: ART 3511 or ART 3513 or ART 3515.

### Commercial Art

**ART 2610 Introduction to Commercial Art (3)** Basic orientation to the field of commercial art. Presentation skills, use of tools and materials. Creative problem solving in the areas of advertising, publication, graphic design, and illustration. Prerequisites: ART 1110 and ART 1315. Graphic arts majors-GRAP 2030 and GRAP 2031. An

additional fee is associated with this course.

**ART 3610 Typography (3)** Principles of design and usage of letter forms and alphabet styles provide the basis for experiments in spacing, arrangement, and integration of typographic and other graphic elements on the printed page. Prerequisites: ART 1110 and ART 1315. Graphic arts majors-GRAP 2030 and GRAP 2031. An additional fee is associated with this course.

**ART 3620 Logo/Trademark Design (3)** The design of symbolic and lettergraphic identifiers, practical application of symbols, signs, and visual metaphors from simple logotypes to sophisticated corporate identity programs. Only offered Spring semester. Prerequisites: ART 2610 and ART 3610. An additional fee is associated with this course.

**ART 3625 Illustration Techniques (3)** The application of wet and dry media with various surfaces to achieve a range of visual effects with an emphasis on exploration and experimentation. Nineteenth and twentieth century illustrators' works are studied as a means of understanding visual possibilities and styles. Prerequisite: ART 2610. An additional fee is associated with this course.

**ART 3630 Design for Advertising (3)** Advertising concepts, layout, client presentation for print application. Developing, visualizing, and communicating effective advertising for magazines, newspapers, and outdoor posters. Only offered Fall semester. Prerequisites: ART 2610 and ART 3610. An additional fee is associated with this course.

**ART 3635 Illustration Concepts (3)** The interpretation of written and verbal information resulting in appropriate and successful visual solutions. Concept and visual vocabulary are stressed as a means of satisfying client needs. Students will begin to identify and build a personal illustrative style. Prerequisite: ART 3625. An additional fee is associated with this course.

**ART 3640 Package Design (3)** Packaging and point-of-sale graphics from concept to client presentation. Only offered Spring semester. Prerequisite: ART 3620. An additional fee is associated with this course.

**ART 3660 Publication Design (3)** Publications as design problems. The design of folders, brochures and soft-bound print pieces through the manipulation of type, photos, art, paper and grid systems. Only offered Fall semester. Prerequisites: ART 3620. An additional fee is associated with this course.

**ART 4610 Interactive Design (3)** An introduction to the field of digital visual communication. Integration of new technologies, concepts and methods will be explored. Prerequisites: ART 3660 and consent of instructor or department adviser. An additional fee is associated with this course.

**ART 4620 Motion Design\* (3)** Introduction to the field of motion graphics including: time-based works, animation, sound, and digital multimedia. Exploration of technologies, methods and concepts in motion design. Prerequisites: ART 3620 and ART 3630 or instructor consent. \*Not available for graduate credit.

**ART 4625 Advanced Illustration I\* (3)** The application of illustration techniques and concepts to advertising and editorial assignments in a simulated professional setting. Projects will stress the research and generation of visual references, working with art directors and editors, meeting tight deadlines. Prerequisite: ART 3635. An additional fee is associated with this course. \*Not available for graduate credit.

**ART 4635 Advanced Illustration II\* (3)** A continuation of ART 4625 with an emphasis on the business aspects of free-lance illustration. Prerequisite: ART 4625. An additional fee is associated with this course. \*Not available for graduate credit.

### Printmaking

**ART 2710 Introduction to Printmaking (3)** This course is designed to acquaint the student with the basics of various printmaking processes. Prerequisites: ART 1110 and ART 1315. An additional fee is associated with this course.

**ART 3710 Intaglio (3)** Intaglio printmaking methods and production. *May be repeated for a maximum of 12 semester hours.* Prerequisite: ART 2710. An additional fee is associated with this course.

**ART 3720 Lithography (3)** Printmaking techniques in traditional stone lithography. *May be repeated for a maximum of 12 semester hours.* Prerequisite: ART 2710. An additional fee is associated with this course.

**ART 3730 Serigraphy (3)** Application of traditional and photographic silk screen processes of reproduction to commercial and fine arts

problems. *May be repeated for a maximum of 12 semester hours.*  
 Prerequisite: ART 2710. An additional fee is associated with this course.  
**ART 3740 Relief Printmaking (3)** The development of the print through the raised surface process. The student will engage in the technique through both traditional and contemporary materials. Single color and multicolor printing will be explored. *May be repeated for a maximum of 12 semester hours.* Prerequisite: ART 2710. An additional fee is associated with this course.

### Art History

**ART 1800 Ideas and the Visual Arts (3)** Explores the idea and practice of the visual arts in modern society. A study of style, form, content, and aesthetic judgment emphasizing the visual arts as a means of communicating ideas.  
**ART 1815 Art History Survey I (3)** Prehistoric to the fourteenth century.  
**ART 1825 Art History Survey II (3)** Art history from 1400 to the present.  
**ART 1835 Survey of Non-Western Art History (3)** The survey of the aesthetic and stylistic development of the traditional arts and architecture of non-western culture.  
**ART 3800 History of Furniture and Interiors (3)** The survey of the furniture and interiors from ancient to modern times. Emphasis is given to the styles from the Renaissance to the nineteenth century.  
**ART 4820 Italian Renaissance Art and Architecture (3)** A history of the visual arts in Italy from 1400 to 1700.  
**ART 4850 Twentieth Century Art and Architecture (3)** A history of the visual arts of the world in the twentieth century.  
**ART 4860 Contemporary Art & Design (3)** The exploration of contemporary art and design in a context of art historical style by utilizing specialized information networks which chart and chronicle its development.

### Art Education

**ART 3910 Art for Elementary Schools (2)** Elements of art structure and the principles of composition and their application in creative visual art experiences, especially adapted for children ages 4 through 12. An additional fee is associated with this course.  
**ART 3915 Methods of Teaching Art I: Elementary (3)** The art teacher's role in teaching art history, art criticism and aesthetics, along with the production of artwork for children ages 4 through 12, will be explored. Prerequisites: ART 1110 and ART 1315. An additional fee is associated with this course.  
**ART 3920 Methods of Teaching Art II: Secondary (3)** The art teacher's role and methods of teaching art production, art history, art criticism and aesthetics for students grades 6-12, will be explored. Prerequisite: ART 3915; should be taken concurrently with EDCI 3500 and EDCI 3550. An additional fee is associated with this course.  
**ART 4920 Methods of Teaching Art III: Student Teaching Seminar\* (2)** Application of previous art methods and education course knowledge to preparing for student teaching placements, fulfilling program exit requirements, and developing skills for seeking employment. Prerequisites: admission to Teacher Education Program; double majors must take a methods course for each major; should be taken concurrently with ART 4930 during the Professional Semester. \*Not available for graduate credit.  
**ART 4930 K-12 Field Experience in Art\* (1)** Participation in the elementary and secondary art locations where student teaching will take place, ensuring an effective transition from University campus setting to student teaching. Prerequisites: admission to the Teacher Education Program; should be taken concurrently with Art 4920 during the Professional Semester (the student teaching semester). \*Not available for graduate credit.

### Integrative Studies Capstone

**ICAP 4221 Artists in Contemporary Society\* (3)** Artists examine diverse theories of art and ethics as it impacts their careers in a global society. Prerequisite: Consent to enroll, based on the following conditions: all general studies completed; art major; scheduled for graduation the semester enrolled (or the following semester if an art education major). \*Not available for graduate credit.

## Communication

### Mission Statement

The Department of Communication embraces the traditions, study, and practice of symbolic interaction through a variety of communication genres, such as broadcast media, corporate communication, journalism, mass communication, public relations, rhetoric, and speech communication.

### Admission

Students entering the University of Central Missouri to pursue a degree in communication (Communication, B.A.; Broadcast Media, B.S.; Journalism, B.S.; Public Relations, B.S.; Corporate Communication, B.S.; Speech Communication B.S.; Speech Communication and Theatre B.S) should indicate their intentions to become a communication major at the time of first enrollment. Departmental advisers can be obtained at the department office, Martin 136.

Admission to all communication degree programs is conditional upon the completion of the following prerequisites:

1. Completion of the following General Education requirements with no grade lower than C: COMM 1000; ENGL 1020 and ENGL 1030, or ENGL 1080.
2. Proficiency in keyboarding is required for all writing courses. Application into the communication programs should be made after departmental pre-admission requirements have been completed. Applications made after completion of 75 semester hours of academic credit will normally entail the taking of more than the minimum of 49 additional semester hours. Application forms are available in Martin 136.

### Course Work

1. A student may not graduate with a degree in a communication major in which the grade of record for any required communication course work is an F. Excluding COMM 1200, COMM 2400, COMM 2415, COMM 1520, COMM 2620, COMM 4500, a maximum of six semester hours in which the grade of record for any communication course is a D may be counted toward a degree with a communication major.
2. Course substitutions for the catalog requirements may be made only upon approval by the appropriate departmental adviser and department chair.
3. Some production or writing courses require participation in activities outside the class meeting hours. Students should be prepared to participate in these activities that sometimes include assignments in conjunction with the campus media.
4. Some lecture courses require attendance at departmental colloquia and/or other University presentations. Students should be prepared to participate in these assignments as a part of their degree programs.
5. Students must earn a C grade or above in each of the following core courses: COMM 1100, COMM 2100 and COMM 3100.

**BROADCAST MEDIA**

**Major, Bachelor of Science Degree**

Please see the Department of Communication for updates regarding this program.  
(43-342)

**Broadcast Media Statement of Policy Admission**

Application into the Broadcast Media major should be made after departmental program pre-admission requirements have been completed.

Admission to the Broadcast Media program is conditional upon the completion of the following prerequisites:

1. Completion of the following General Education requirements with no grade lower than C: COMM 1000, ENGL 1020 and ENGL 1030, or ENGL 1080.
2. Completion of the following Broadcast Media gateway courses: COMM 1200, COMM 2400, COMM 2415. Students must maintain a 2.50 grade point average with no course credit lower than a C in these courses.

**Course Work**

1. A first semester student majoring in Broadcasting Media should meet with a departmental adviser before registering for additional classes.
2. A student may not graduate with a degree in Broadcast Media in which the grade of record for any required communication course work is an F.
3. Excluding COMM 1200, COMM 2400, COMM 2415, a maximum of six semester hours in which the grade of record for any communication coursework is a D may be counted toward a Broadcast Media major.
4. Course substitutions for the catalog requirements may be made only upon approval by the appropriate departmental adviser and department chair.
5. Some production or writing courses require participation in activities outside the class meeting hours. Students should be prepared to participate in these activities, which sometimes include assignments in conjunction with the campus media.
6. Some lecture courses require attendance at departmental colloquia and/or other University presentations. Students should be prepared to participate in these assignments as a part of their degree programs.
7. In order to graduate with a degree in Broadcast Media, a student must attain a 2.25 (or above) grade-point average for all credit hours (completed at UCM or elsewhere) and attain a 2.50 (or above) grade-point average for all course work in the major.

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.

Sem. Hours

**MAJOR REQUIREMENTS 42-54**

COMM 1100	Intro. to Communication	1
COMM 2100	Introduction to Communication Theory	3
COMM 3100	Communication Research Methods	3
COMM 1200	Intro. to Mass Communication	3
COMM 4250	Mass Communication Law	3
COMM 2400	Foundations of Broadcasting	3
COMM 2410	Multimedia I	3
COMM 2411	Audio Production I	3
COMM 2412	Video Production I	5
COMM 2415	Broadcast Copywriting	3
COMM 4490	Senior Capstone Seminar	2
COMM 3200	Practicum, 1-3 or	
COMM 4295	Internship, 1-3	1-3

**Production**

Electives from the following	3-9	
COMM 3410	Audio Production II	3
COMM 3411	Video Production II	3
COMM 3413	Multimedia II	3
COMM 3412	Single Camera Drama Prod.	3
COMM 4410	Video Production III	3
COMM 4470	Corp. & Org. Media Production	3

**Industry Practice and Analysis**

Electives from the following	3-5	
COMM 4240	Media Management	2
COMM 4245	Media Economics & Sales	3
COMM 3430	Broadcast Prog. & Operations	3
COMM 4415	Screenplay Writing	3
COMM 4475	New Media Technologies	2
COMM 3640	Mass Media Advertising	3

**Theory and Criticism**

Electives from the following	3-5	
COMM 4200	Spec. Topics in Mass Media	1-6
COMM 4260	Comparative Media Systems	2
COMM 4280	Criticism of Mass Media	2
COMM 4285	Women & Minorities in Media	3
COMM 4290	Special Proj. in Mass Comm.	1-3
COMM 3400	History of American Film	3

**MINOR REQUIREMENTS (see Statement of Policy) 18-25**

**GENERAL EDUCATION REQUIREMENTS (pages 34-43) 48**

COMM 1000	Div. I B (required)	3
COMM 3000	Div. II C (required)	3
GEOG 3201	Div. II D (required)	3
COMM 3010	Div. III (required)	3
IGEN 4224	Div. IV A or	
IGEN 3232	Div. IV A or	
IGEN 3224	Div. IV A (required)	3

**UPPER-LEVEL ELECTIVES 1-13**

**MINIMUM TOTAL 124**

**BROADCAST MEDIA**

**Minor for a Bachelor's Degree**

Please see the Department of Communication for updates regarding this program

UCM does not confer teacher certification for this minor  
(343)

Sem. Hours

**MINOR REQUIREMENTS 21**

COMM 1200	Intro. to Mass Communication	3
COMM 2400	Foundations of Broadcasting	3
COMM 2415	Broadcast Copywriting	3
COMM 4250	Mass Communication Law	3
Electives from the following	3	
COMM 2410	Multimedia I	3
COMM 2411	Audio Production I	3
COMM 2412	Video Production I	5
Electives from the following	6	
COMM3200	Mass Media Practicum	1
COMM 3410	Audio Production II	3
COMM 3411	Video Production II	3
COMM 3412	Single Camera Drama Prod.	3
COMM 3413	Multimedia II	3
COMM 3430	Broadcast Prog. & Operations	3
COMM 4240	Media Management	2
COMM 4280	Criticism of Mass Media	2
COMM 4410	Video Production III	3
COMM 4415	Screenplay Writing	3
COMM 4470	Corporate & Org. Media Prod.	3

**COMMUNICATION**

**Major, Bachelor of Arts Degree**

Please see the Department of Communication for updates regarding this program.

For admission and classwork requirements, see Statement of Policy. (42-348)

**Bachelor of Arts Communication Statement of Policy**

**Admission**

Students entering the University of Central Missouri to pursue a Bachelor of Arts degree in Communication should make application after the completion of the core courses.

**Program Goals**

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

- Demonstrate a general knowledge and appreciation of mass and/or speech communication theories.
- Demonstrate ability to critique and/or apply various research methods and/or approaches.
- Demonstrate preparedness for 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.

Sem. Hours

**MAJOR REQUIREMENTS . . . . . 37-46**

COMM 1100	Introduction to Communication. . . . .	1
COMM 2100	Introduction to Communication Theory . . .	3
COMM 3100	Communication Research Methods . . . . .	3
COMM 1200	Introduction to Mass Communication . . . .	3
COMM 2325	Improving Listening Skills . . . . .	3
COMM 3327	Improving Interviewing Skills . . . . .	3
COMM 4335	Gender Communication . . . . .	3
COMM 4390	Contemporary Communication . . . . .	2
COMM 3200	Mass Media Practicum, 1 or	
COMM 3390	Forensics . . . . .	1

Departmentally approved upper-level electives in communication . . . . . 3-6

**Criticism\***

Electives from the following . . . . .	2-3	
COMM 4260	Comparative Media Systems . . . . .	2
COMM 4280	Criticism of Mass Media . . . . .	2
COMM 3320	Audience Adaptation . . . . .	3
COMM 3355	Speech Writing and Criticism . . . . .	3

**Production\***

Electives from the following . . . . .	3-6	
COMM 3350	Prin. of Presentational Speaking . . . . .	3
COMM 2415	Broadcast Copywriting . . . . .	3
COMM 4415	Screen Play Writing . . . . .	3
COMM 1520	Elements of News Reporting . . . . .	3
COMM 2410	Multimedia I, 3 or	
COMM 2411	Audio Production I, 3 or	
COMM 2412	Video Production I, 5 . . . . .	3-5

**Survey\***

Electives from the following . . . . .	3	
COMM 2320	Found. of Rhetorical Theory . . . . .	3
COMM 2400	Foundations of Broadcasting . . . . .	3
COMM 3400	History of American Film . . . . .	3
COMM 4500	Heritage of Am. Journalism . . . . .	3
COMM 2620	Public Relations . . . . .	3

**Relational\***

Electives from the following . . . . .	2-3	
COMM 3325	Nonverbal Communication. . . . .	2
COMM 3340	Intercultural Communication . . . . .	3
COMM 4330	Theories of Interpersonal Comm. . . . .	3

**Classical\***

Electives from the following . . . . .	2-3	
COMM 2340	Argument and Debate . . . . .	3
COMM 4320	Persuasion . . . . .	2

COMM 4340	Classical Rhetorical Theory . . . . .	3
COMM 4345	Modern Rhetorical Theory . . . . .	3

**MINOR REQUIREMENTS (see Statement of Policy) . . . . . 18-25**

**GENERAL EDUCATION REQUIREMENTS** (pages 34-43) The Modern Language Requirement fulfills 3 s.h. of Div. II C . . . . . 45

COMM 1000	Div. I B (required) . . . . .	3
COMM 3000	Div. II D (required) . . . . .	3
ANTH 1820	Div. II E or	
GEOG 3201	Div. II E or	
WS 2000	Div. II E (required) . . . . .	3
COMM 3010	Div. III (required) . . . . .	3
IGEN 4224	Div. IV A or	
IGEN 3232	Div. IV A or	
IGEN 3224	Div. IV A (required) . . . . .	3

**MODERN LANGUAGE REQUIREMENT . . . . . 6**

Refer to Bachelor's Degree Requirements section for fulfillment options.

**UPPER-LEVEL ELECTIVES . . . . . 8-18**

**MINIMUM TOTAL . . . . . 124**

**COMMUNICATION**

**Minor for a Bachelor's Degree**

Students majoring in any Communication degree are not eligible to take this minor

Please see the Department of Communication for updates regarding this program

UCM does not confer teacher certification for this minor (349)

Sem. Hours

**MINOR REQUIREMENTS . . . . . 21**

COMM 1100	Introduction to Communication. . . . .	1
COMM 2100	Introduction to Communication Theory . . .	3
COMM 3100	Comm. Research Methods . . . . .	3
Departmentally approved electives in COMM . . . . .		14

**CORPORATE COMMUNICATION**

**Major, Bachelor of Science Degree**

Please see the Department of Communication for updates regarding this program. (43-356)

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

- Demonstrate a general knowledge and application of communication theory within an organizational context.
- Demonstrate ability to critique and apply various research methods and/or approaches within an organizational context.
- Demonstrate preparedness for professional life and/or further academic study.

**Statement of Policy**

Admission to the degree program is contingent upon the completion of the following prerequisites:

1. A cumulative grade-point average of 2.50.
2. Application to the program should be made as soon as all ten hours of the core courses have been completed.
3. Permission to proceed with the internship requirement is contingent upon the student presenting grades of "C" or better in the pre-internship requirements (COMM 2330, COMM 2380, COMM 3327, and COMM 4780).
4. Transfer students without Communication 3010 equivalency must take COMM 3010 Interpersonal Communication.

Sem. Hours

**MAJOR REQUIREMENTS . . . . . 39**

**Core Courses**

COMM 1100	Introduction to Communication . . . . .	1
COMM 2100	Intro. to Communication Theory . . . . .	3
COMM 3100	Communication Research Methods . . . . .	3
Electives in Professional Courses . . . . .		26-29
COMM 2325	Improving Listening Abilities . . . . .	3

COMM 2330	Small Group Communication	. . . . .	3
COMM 2380	Intro to Organizational Comm.	. . . . .	3
COMM 2620	Public Relations	. . . . .	3
COMM 3327	Improving Interviewing Skills	. . . . .	3
COMM 3350	Principles of Presentational Speaking	. . . . .	3
COMM 3730	Comm. Conflict Management	. . . . .	3
COMM 4475	New Media Technologies	. . . . .	2
COMM 4780	Adv. Theories of Org. Comm.	. . . . .	3
COMM 4783	Communication Training	. . . . .	3

**Internship**

COMM 4785	Internship in Speech Comm.	. . . . .	3-6
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If a 3 hour internship is selected, one additional 3 semester hour upper-level course must be selected from the Professional Courses category.

**MINOR REQUIREMENTS . . . . . 20-25**

**GENERAL EDUCATION REQUIREMENTS (pages 34-43) . . . . . 48**

COMM 1000	Div IB (required)	. . . . .	3
ANTH 1820	Div. II D or		
GEOG 3201	Div. II D or		
WS 2000	Div. II D (required)	. . . . .	3
COMM 3010	Div. III (required)	. . . . .	3
IGEN 4224	Div. IV A or		
IGEN 3232	Div. IV A or		
IGEN 3224	Div. IV A (required)	. . . . .	3

**UPPER-LEVEL ELECTIVES . . . . . 11**

**FREE ELECTIVES . . . . . 0-5**

**MINIMUM TOTAL . . . . . 124**

**CORPORATE COMMUNICATION**

**Minor for a Bachelor's Degree**

UCM does not confer teacher certification for this minor (556)

Sem. Hours

**MINOR REQUIREMENTS . . . . . 26-27**

COMM 1000	Public Speaking	. . . . .	3
COMM 2330	Small Group Communication	. . . . .	3
COMM 2380	Intro. to Organizational Comm.	. . . . .	3
COMM 3350	Principles of Presentational Speaking	. . . . .	3
COMM 3730	Communication Conflict Management	. . . . .	3
COMM 4781	Assessment of Organizational Communication	. . . . .	3
COMM 4783	Communication Training	. . . . .	3
*MGT 3325	Business Communications	. . . . .	3

Elective from the following . . . . . 2-3

COMM 2325	Improving Listening Abilities	. . . . .	3
COMM 3325	Nonverbal Communication	. . . . .	2
COMM 3327	Improving Interviewing Skills	. . . . .	3

\*If MGT 3325 is required as part of a student's major, then the student must select one additional course from the Electives.

**JOURNALISM**

**Major, Bachelor of Science Degree**

Please see the Department of Communication for updates regarding this program.

For admission and classwork requirements, see Statement of Policy. (43-345)

**Journalism Statement of Policy**

**Admission**

Application into the Journalism major should be made after departmental program pre-admission requirements have been completed. Departmental advisers can be obtained through the office professional in Martin 136.

Admission to the program is conditional upon the following prerequisites:

1. Completion of the following general education requirements with a grade no lower than a C: COMM 1000, ENGL 1020, ENGL 1030 or ENGL 1080, and COMM 3010.
2. Departmental approval of admission will be made after completion of the six semester hours of course work which are called the gateway courses (see item 3).
3. All journalism majors must obtain a C or better in COMM 1520 and

COMM 2520 and maintain a 2.25 GPA in all of their coursework in their major.

Program Goals. The graduate with a Bachelor of Science degree in Journalism will use the knowledge and skills obtained in the program to:

- Understand newsgathering and reporting
- Appreciate photojournalism
- Understand media law and ethics.
- Edit writing for news value, style, grammar and writing quality.
- Appreciate electronic journalism.
- Understand mass media and society.
- Be able to conceptualize page design.

Sem. Hours

**MAJOR REQUIREMENTS . . . . . 37-42**

COMM 1100	Introduction to Communication	. . . . .	1
COMM 1520	Elements of News Reporting	. . . . .	3
COMM 2100	Intro. to Communication Theory	. . . . .	3
COMM 2520	Copy Editing & Layout	. . . . .	3
COMM 3100	Communication Research Methods	. . . . .	3
COMM 3200	Mass Media Practicum	. . . . .	1
COMM 3525	Feature Writing	. . . . .	3
COMM 4210	Mass Media Practicum II	. . . . .	1
COMM 4250	Mass Communication Law	. . . . .	3
COMM 4295	Internship	. . . . .	1-3
COMM 4500	Heritage of American Journalism	. . . . .	3
COMM 4535	Advanced News Reporting	. . . . .	3

Electives from the following: . . . . . 9-12

COMM 3530	Photo Journalism	. . . . .	3
COMM 4200	Special Topics in Mass Media	. . . . .	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 may do so with the aid of a departmental adviser who may substitute some approved courses to meet those needs.

**MINOR REQUIREMENTS (see University Statement of Policy) 18-25**

**GENERAL EDUCATION REQUIREMENTS (pages 34-43) . . . . . 48**

COMM 1000	Div. I B (required)	. . . . .	3
COMM 3010	Div. III (required)	. . . . .	3
IGEN 3232	Div. IV A or		
IGEN 3224	Div. IV A or		
IGEN 4224	Div. IV A (required for Area 3)	. . . . .	3

**FREE ELECTIVES . . . . . 6-18**

**MINIMUM TOTAL . . . . . 124**

**JOURNALISM**

**Minor, Bachelor of Science in Education Degree**

Please see the Department of Communication for updates regarding this program

Certification to teach journalism in grades 9-12 (346)

The graduate with a Bachelor of Science in Education degree with a Journalism minor will use the knowledge and skills obtained in the program to:

- Understand newsgathering and reporting.
- Appreciate photojournalism.
- Demonstrate management and business skills for publication advisers.
- Appreciate electronic journalism.
- Understand mass media and society.
- Be able to conceptualize page design.

Sem. Hours

**MINOR REQUIREMENTS . . . . . 32**

COMM 1100	Intro to Communication	. . . . .	1
COMM 1520	Elements of News Reporting	. . . . .	3
COMM 2520	Copy Editing and Layout	. . . . .	3
COMM 3280	Sports Writing	. . . . .	3
COMM 3505	Introduction to High School		

	Video Production . . . . .	1
COMM 3525	Feature Writing . . . . .	3
COMM 3535	Broadcast Journalism . . . . .	3
COMM 4250	Mass Communication Law . . . . .	3
COMM 4500	Heritage of American Journalism . . . . .	3
COMM 4522	Desktop Design for Teachers . . . . .	3
COMM 4555	Advanced Editing . . . . .	3
COMM 4571	Methods of Teaching Journalism . . . . .	3

**JOURNALISM**

**Minor for a Bachelor's Degree**

Please see the Department of Communication for updates regarding this program  
 Except for a Bachelor of Science in Education Degree (2008)

		Sem. Hours
<b>MINOR REQUIREMENTS</b> . . . . .		<b>22-25</b>
COMM 1100	Intro to Communication . . . . .	1
COMM 1520	Elements of News Reporting . . . . .	3
COMM 2520	Copyediting & Layout . . . . .	3
COMM 3525	Feature Writing, 3 . . . . .	3
COMM 4250	Mass Communication Law . . . . .	3
COMM 4500	Heritage of American Journalism . . . . .	3
COMM 4535	Advanced News Reporting . . . . .	3
	Electives from the following . . . . .	3-6
COMM 3200	Mass Media Practicum . . . . .	1-2
COMM 3280	Sports Writing . . . . .	3
COMM 4280	Criticism of Mass Media . . . . .	2
COMM 3530	Photo Journalism . . . . .	3
COMM 3535	Broadcast Journalism . . . . .	3
COMM 4520	Editorial & Interp. Writing . . . . .	3
COMM 4555	Advanced Editing . . . . .	3

**PUBLIC RELATIONS**

**Major, Bachelor of Science Degree**

Please see the Department of Communication for updates regarding this program.  
 For admission and classwork requirements, see Statement of Policy. (43-351)

**Admission**

Application in the Public Relations major should be made after departmental pre-admission requirements have been completed.  
 Admission to the Public Relations degree program is conditional upon the completion of the following prerequisites:  
 1. All public relations majors must obtain a 2.25 GPA (with no grade lower than a C) in COMM 2620, COMM 2625 and COMM 3620.  
 2. Public Relations B.S. majors must obtain a 2.25 (or above) grade point average for all credit hours (completed at UCM or elsewhere) and attain a 2.5 grade point average for all course work in the major.

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

- Demonstrate public relations driven knowledge and application of strategic communication concepts.
- Demonstrate ability to effectively evaluate and utilize research for public relations purposes.
- Demonstrate critical thinking, problem-solving, and decision making abilities in the professional arena.
- Demonstrate preparedness for professional life and/or further academic study.

		Sem. Hours
<b>MAJOR REQUIREMENTS</b> . . . . .		<b>42</b>
COMM 1100	Introduction to Communication. . . . .	1
COMM 2100	Introduction to Communication Theory . . . . .	3
COMM 3100	Communication Research Methods . . . . .	3
COMM 2620	Public Relations . . . . .	3
COMM 2625	Writing & Editing for Public Relations . . . . .	3
COMM 3620	Strategic Planning for Public Relations . . . . .	3

COMM 3625	Design & Layout for Publications . . . . .	1
COMM 4250	Mass Communication Law . . . . .	3
COMM 4295	Internship . . . . .	3
COMM 4510	Magazine Design & Production . . . . .	3
COMM 4680	Publicity . . . . .	3
COMM 4685	Case Studies in Public Relations . . . . .	2
COMM 4690	Campaigns . . . . .	3
	Electives from the following . . . . .	8
COMM 3200	Mass Media Practicum . . . . .	1-3
COMM 3327	Improving Interviewing Skills. . . . .	3
COMM 3350	Principles of Presentational Speaking . . . . .	3
COMM 3640	Mass Media Advertising . . . . .	3
COMM 4200	Spec. Topics in Mass Media . . . . .	1-6
COMM 4280	Criticism of Mass Media . . . . .	2
COMM 4295	Internship . . . . .	1-3
COMM 4470	Corporate & Org. Media Production . . . . .	3
COMM 4781	Assessment & Organizational Comm. . . . .	3

Proficiency in typing is required (see Statement of Policy).

**MINOR REQUIREMENTS (see Statement of Policy) . . . . . 18-25**

**GENERAL EDUCATION REQUIREMENTS (pages 34-43) . . . . . 48**

COMM 1000	Div. I B (required) . . . . .	3
COMM 3000	Div. II D (required) . . . . .	3
COMM 3010	Div. III (required) . . . . .	3
IGEN 4224	Div. IV A or	
IGEN 3232	Div. IV A or	
IGEN 3224	Div. IV A (required) . . . . .	3

**UPPER-LEVEL ELECTIVES . . . . . 16-24**

**MINIMUM TOTAL . . . . . 124**

**SPEECH COMMUNICATION**

**Major, Bachelor of Arts Degree**

Please see the Department of Communication for updates regarding this program (42-358)  
 The graduate with a Bachelor of Arts degree in Speech Communication will use the knowledge and skills obtained in the program to:

- Formulate appropriate communication strategies for dealing with potential conflict situations within and between specific cultures.
- Implement appropriate communication strategies for reducing existing conflicts within and between specific cultures.
- Communicate appropriately and ethically within culturally diverse contexts.
- Communicate effectively yet ethically in goal-relevant situations involving diverse cultures.
- Articulate/present significant principles of international/intercultural communication gained from direct, personal interaction with members of diverse ethnic, racial and cultural backgrounds.
- Analyze organizational and family structures in terms of cultural influences, which affect the relationships.

		Sem. Hours
<b>MAJOR REQUIREMENTS</b> . . . . .		<b>35</b>
COMM 1000	Public Speaking . . . . .	3
COMM 3010	Interpersonal Communication . . . . .	3
COMM 2100	Foundations of Comm. Theory . . . . .	3
COMM 2320	Foundations of Rhetorical Theory . . . . .	3
COMM 2325	Improving Listening Abilities . . . . .	3
COMM 2330	Small Group Communication . . . . .	3
COMM 3340	Intercultural Communication . . . . .	3
COMM 4330	Theories of Interpersonal Communication . . . . .	3
COMM 4335	Gender Communication . . . . .	3
COMM 4340	Classical Rhetorical Theory . . . . .	3
COMM 3730	Communication Conflict Mgt. . . . .	3
COMM 3320	Audience Adaptation, 3 or	
COMM 4345	Modern Rhetorical Theory, 3 . . . . .	3

**MINOR REQUIREMENTS . . . . . 18-25**

**GENERAL EDUCATION REQUIREMENTS (pages 34-43)** In the major, COMM 1000 fulfills 3 s.h. of Div. I B; the Modern Language Requirement fulfills 3 s.h. of Div. II C; in the major, COMM 3010 fulfills 3 s.h. of Div. II E . . . . . **39**

ANTH 1820	Div. II D or	
GEOG 3201	Div. II D or	

WS 2000	Div. II D (required)	3
IGEN 4224	Div. IV A or	
IGEN 3232	Div. IV A or	
IGEN 3224	Div. IV A (required)	3
<b>MODERN LANGUAGE REQUIREMENT</b>		<b>3-9</b>
Refer to Bachelor's Degree Requirements section for fulfillment options.		
<b>FREE ELECTIVES</b>		<b>16-29</b>
<b>MINIMUM TOTAL</b>		<b>124</b>

**SPEECH COMMUNICATION**

**Major, Bachelor of Science Degree**

Please see the Department of Communication for updates regarding this program.  
(43-359)

Application into the Speech Communication major should be made after completion of the core.

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

- Demonstrate a general knowledge and application of communication theories/concepts.
- Demonstrate ability to effectively evaluate and utilize research.
- Demonstrate preparedness for professional life and /or further academic study.

**Admission**

Students entering the University of Central Missouri to pursue a B.S. degree in Speech Communication should make application after the completion of the core courses.

All speech communication majors must attain a 2.0 GPA for all course work in the major.

	Sem. Hours
<b>MAJOR REQUIREMENTS</b>	<b>45-52</b>
COMM 1100 Introduction to Communication	1
COMM 2100 Introduction to Communication Theory	3
COMM 3100 Communication Research Methods	3
COMM 2320 Foundations of Rhetorical Theory	3
COMM 2325 Improving Listening Abilities	3
COMM 2330 Small Group Communication	3
COMM 3350 Principles of Presentational Speaking	3
COMM 4320 Persuasion	2
Electives in applied communication	2-3
COMM 3327 Improving Interviewing Skills	3
COMM 3355 Speech Writing and Criticism	3
COMM 3390 Forensics	1-3
Electives in interaction skills	2-3
COMM 3325 Nonverbal Communication	2
COMM 3340 Intercultural Communication	3
COMM 4330 Theories of Interpersonal Comm.	3
COMM 4335 Gender Communication	3
COMM 3730 Comm. Conflict Management	3
Electives in social influence	7-9
COMM 1200 Intro. to Mass Communication	3
COMM 4250 Mass Communication Law	3
COMM 4260 Comparative Media Systems	2
COMM 4280 Criticism of Mass Media	2
COMM 2340 Argumentation and Debate	3
COMM 3320 Audience Adaptation	3
COMM 4500 Heritage of American Journalism	3
PHIL 2300 Ethics	3
POLS 2550 Political Parties & Pressure Groups	3
POLS 3550 Public Opinion & Mass Media	3
REL 2310 World Views and Values	3
Electives in rhetorical studies	5-6
COMM 4340 Classical Rhetorical Theory	3
COMM 4345 Modern Rhetorical Theory	3
COMM 4390 Contemporary Communication	2
<b>MINOR REQUIREMENTS</b>	<b>18-25</b>
<b>GENERAL EDUCATION REQUIREMENTS (pages 34-43)</b>	<b>48</b>

COMM 1000	Div. I B (required)	3
COMM 3000	Div. II D (required)	3
ANTH 1820	Div. II D or,	
GEOG 3201	Div. II D or,	
WS 2000	Div. II D (required)	3
COMM 3010	Div. III (required)	3
IGEN 4224	Div. IV A or	
IGEN 3232	Div. IV A or	
IGEN 3224	Div. IV A (required)	3
<b>FREE ELECTIVES</b>		<b>9-21</b>
<b>MINIMUM TOTAL</b>		<b>124</b>

**SPEECH COMMUNICATION**

**Major Option, Bachelor of Science in Education Degree**

The graduate with a Bachelor of Science in Education degree in Speech & Theatre (with a Speech Communication Major Option) will use the knowledge and skills obtained in the program to:

- Demonstrate knowledge and application of the fundamentals of communication.
- Demonstrate knowledge and application of public speaking concepts and principles.
- Demonstrate knowledge and application of the theory and practice of argumentation and debate.
- Demonstrate an understanding of communication ethics.
- Demonstrate knowledge and application of the theory and practice of interpersonal and group communication.
- Demonstrate knowledge and application of school forensics through experiential co-curricular activities.
- Demonstrate knowledge and application of mass communication concepts, principles and basic techniques.

Sem. Hours

<b>MAJOR REQUIREMENTS</b>	<b>36</b>	
<b>Core Requirements</b>	<b>21</b>	
COMM 3010 Interpersonal Communication	3	
COMM 3320 Audience Adaptation	3	
COMM 3350 Prin. of Presentational Speaking	3	
THEA 4400 Lit. & History of the Theatre I, 3 or		
THEA 4420 Lit. & History of the Theatre II, 3	3	
Electives in THEA or Comm	3	
<b>MINOR REQUIREMENTS</b>	<b>18-25</b>	
<b>GENERAL EDUCATION REQUIREMENTS (pages 34-43)</b> In the major, COMM 3010 fulfills 3 s.h. of Div. III; in the professional education requirements, ICAP 4468 fulfills 3 s.h. of Div. IV B)		
<b>Students must have one course in a physical or earth science and one in a biological science in Div. II A.</b>	<b>42</b>	
COMM 1000	Div. I B (required)	3
HIST 1350	Div. II B or	
HIST 1351	Div. II B (required)	3
POLS 1510	Div. II B (required)	3
COMM 3000	Div. II C (required)	3
THEA 2400	Div. II C (required)	3
ANTH 1820	Div. II D or	
GEOG 3201	Div. II D or	
WS 2000	Div. II D (required)	3
PSY 4230	Psy. of Adolescence	3
Secondary Education students will be allowed to substitute PSY 4230 to fulfill 3 s.h. in Div. II B.		
<b>PROFESSIONAL EDUCATION REQUIREMENTS (page 115)</b>	<b>28</b>	
<b>MINIMUM TOTAL</b>	<b>124</b>	



**SPEECH COMMUNICATION****Minor for a Bachelor's Degree**

Please see the Department of Communication for updates regarding this program.

Except for a Bachelor of Science in Education Degree (360)

Sem. Hours

**MINOR REQUIREMENTS . . . . . 21**

COMM 1000	Public Speaking . . . . .	3
COMM 3010	Interpersonal Communication . . . . .	3
COMM 2330	Small Group Communication . . . . .	3
	Electives in speech communication . . . . .	12

**GENERAL EDUCATION REQUIREMENTS** (pages 34-43) In the minor, COMM 1000 fulfills 3 s.h. of Div. I B; COMM 3010 fulfills 3 s.h. of Div. II E.

**SPEECH COMMUNICATION AND THEATRE****Major, Bachelor of Science in Education Degree**

Please see the Department of Communication for updates regarding this program.

Certification to teach speech and theatre in grades 9-12 (41-362)

Sem. Hours

**CORE REQUIREMENTS . . . . . 21**

THEA 1500	Acting . . . . .	3
THEA 1600	Stagecraft . . . . .	3
THEA 3700	Directing . . . . .	3
COMM 2100	Foundations of Comm. Theory . . . . .	3
COMM 2330	Small Group Communication . . . . .	3
COMM 2340	Argumentation & Debate . . . . .	3
COMM 3325	Nonverbal Communication . . . . .	2
COMM 3390	Forensics . . . . .	1

**SPEECH COMMUNICATION AND THEATRE****Minor, Bachelor of Science in Education Degree**

See requirements as outlined in the Department of Theatre.

**THEATRE****Major Option, Bachelor of Science in Education Degree**

See requirements as outlined in the Department of Theatre.

**Course Descriptions**

**COMM 1000 Public Speaking (3)** A study and practice of basic principles involved in discovering, arranging, delivering, and evaluating ideas in speech situations.

**COMM 1100 Introduction to Communication Studies (1)** This course introduces the student to communication and the way it impacts the social, economic and political lives of consumers and how they can have impact upon the media.

**COMM 1200 Introduction to Mass Communication (3)** Theory of mass communication, roles and functions of mass media in a contemporary society.

**COMM 1520 Elements of News Reporting (3)** News, news sources, principles and techniques of news writing; duties and responsibilities of the reporter. Keyboarding ability necessary. Laboratory required. Prerequisite: completion of General Education Div. I A.

**COMM 2100 Introduction to Communication Theory (3)** The process by which communication principles are formulated and the principles themselves, with emphasis on both their theoretical and pragmatic dimensions.

**COMM 2320 Foundations of Rhetorical Theory (3)** Nature and functions of rhetoric across various communication situations.

**COMM 2325 Improving Listening Abilities (3)** Theories and principles for improving listening in a variety of communication situations.

**COMM 2330 Small Group Communication (3)** Communication process as it relates to small group behavior, including the study of principles, methods, and forms of discussion used in small groups.

**COMM 2340 Argumentation and Debate (3)** Principles of analysis, evidence, reasoning, briefing, refutation, case construction, preparing and evaluating arguments. Practical experience with different types of debate.

**COMM 2380 Intro to Organizational Communication (3)** Examines human communication within an organizational context. Contemporary approaches, the enduring processes, and emergent communication processes facing contemporary organizations are considered.

**COMM 2400 Foundations of Broadcasting (3)** Legal, historical, economic, societal and technological foundations of broadcasting. Prerequisite: COMM 1200 or consent.

**COMM 2410 Multimedia I (3)** Principles and practices of designing multimedia for the Broadcast industries. The course covers both hardware and software appropriate to the discipline, including hands-on experience. Prerequisite: COMM 2400 or consent.

**COMM 2411 Audio Production I (3)** Techniques of vocal skills and operation of audio equipment used in broadcasting. Prerequisite: COMM 2400.

**COMM 2412 Video Production I (5: 3 lecture, 2 lab)** Basic techniques and studio procedures used in performance and production of interviews and news programs most commonly found in television stations. Prerequisite: COMM 2411.

**COMM 2415 Broadcast Copywriting (3)** A survey course of different styles of broadcast writing and practical applications.

**COMM 2520 Copy Editing and Layout (3)** Copyediting, rewriting, headline writing, and page make-up. Laboratory work on campus newspaper required. Prerequisite: COMM 1520.

**COMM 2620 Public Relations (3)** Public relations communications, principles, and techniques in historical perspective, including research and report writing. Prerequisite: completion of General Education Div. I A.

**COMM 2625 Writing and Editing for Public Relations (3)** Introduces students to journalistic intent and writing while contextualizing those from a public relations perspective. Equips students to write and edit for journalistic purposes, as well as work with edits received from editors, while keeping in mind the purposes of public relations.

**COMM 3000 Film Appreciation (3)** Students will critically examine motion pictures as a communicative art. For mass communication majors or minors, this course is available only as a free elective or General Education requirement.

**COMM 3010 Interpersonal Communication (3)** Principles of symbolic interaction and their implications for social, personal, and physiological adaptation across the human life span. Includes the patterns involved in establishing and maintaining effective relationships, managing conflict, and promoting tolerance for human diversity.

**COMM 3100 Communication Research Methods (3)** Use of research techniques applied to the study of communication, with stress upon those factors affecting the mass media.

**COMM 3200 Mass Media Practicum (1)** Laboratory experience in the mass media. Prerequisite: consent of instructor.

**COMM 3280 Sports Writing (3)** Develops sports writing skills, both news and column writing. Prerequisite: COMM 2520 or COMM 2625.

**COMM 3320 Audience Adaptation (3)** Audience dimensions and their relationship to communicative acts. Prerequisite: COMM 1000.

**COMM 3325 Nonverbal Communication (2)** An examination of selected areas of nonverbal communication; e.g., space and territory relationships, physical behavior, appearance and dress; paralinguistics; and artifacts.

**COMM 3327 Improving Interviewing Skills (3)** Theory and purposes of interviewing, emphasizing the principles and practice of interviewing skills.

**COMM 3340 Intercultural Communication (3)** Communication between and among cultures, including enculturation and relational implications of cross-cultural communication across a variety of contexts. Prerequisite: COMM 2320 or GEOG 2212 or consent of instructor.

**COMM 3350 Principles of Presentational Speaking (3)** Designed to increase awareness and understanding of speech theory and, by means of speaking exercises, to increase proficiency as a speaker in a variety of professional settings. Prerequisite: COMM 1000.

**COMM 3355 Speech Writing and Criticism (3)** A study of critical practices and methodology including the composition of speech manuscripts and the application of standards for evaluation.

**COMM 3370 Special Topics in Speech Communication (1-3)** The study of subjects not included in department's regular offering such as parliamentary procedure, intercultural and/or therapeutic communication. *May be repeated for a maximum of 6 semester hours.* Prerequisite: Consent.

**COMM 3390 Forensics (1)** Participation in intercollegiate forensics-debate, oratory, extemporaneous speaking, discussion, and oral interpretation. *May be repeated for a maximum of 3 semester hours.*

**COMM 3400 History of American Film (3)** Development of the American film from the silent era to the present.

**COMM 3410 Audio Production II (3)** Techniques of digital-audio post-production and practical studio performance applications. Prerequisite: COMM 2411.

**COMM 3411 Video Production II (3)** Intermediate course in digital video production/performance covering electronic field production, electronic news gathering, producing, directing, shooting and editing techniques. Prerequisite: COMM 2412.

**COMM 3412 Single Camera Dramatic Production (3)** Production of dramatic programs shot on 16mm film or digital video. Topics include scripting, directing, shooting, non-linear editing and animation. Prerequisite: COMM 2412.

**COMM 3413 Multimedia II (3)** Advanced multimedia applications, including audio/video, animation, and incorporation of moving images, two-dimensional images and text to create interactive, multimedia environments. Prerequisite: COMM 2410.

**COMM 3430 Broadcast Programming and Operations (3)** Operation and programming of radio and television stations with emphasis on analysis of programming principles and practices, schedule development and audience behavior. Prerequisite: COMM 2400.

**COMM 3500 Reporting Public Affairs (3)** Techniques of reporting city, county, state, and federal government, as well as boards of education and other governmental entities. Prerequisites: COMM 2520 and COMM 3200 or consent of instructor.

**COMM 3505 Introduction to High School Video Production (1)** The high school journalism teacher will learn about single camera operation, lighting, graphics, talent position, voice, body and performance. Prerequisite: admission to the journalism minor, Bachelor of Science in Education

**COMM 3525 Feature Writing (3)** Advanced course in writing special articles for newspapers and magazines. Prerequisites: COMM 2520 and completion of General Education Div. I A.

**COMM 3530 Photo Journalism (3)** Effective use of photography in journalism communication. Prerequisites: GRAP 1210 or consent.

**COMM 3535 Broadcast Journalism (3)** Philosophy and techniques of radio and television journalism. Prerequisite: COMM 1520.

**COMM 3625 Strategic Planning for Public Relations (3)** Students will apply theoretical knowledge from entry-level coursework to real world public relations applications. Helps students develop preliminary strategic planning skills. Prerequisites: COMM 2620 and COMM 2625.

**COMM 3625 Design and Layout for Publications (1)** Designed to equip students with the preliminary design, software and layout skills needed to produce magazines, house organs, and the like.

**COMM 3640 Mass Media Advertising (3)** The techniques and roles of advertising in the mass media.

**COMM 3730 Communication Conflict Management (3)** An examination of communication factors which contribute to conflicts and an analysis of their resolution.

**COMM 4200 Special Topics in Mass Media (1-9)** Departmentally selected topics of contemporary interest in mass media or specialized areas of the media; variable content. *May be repeated for a maximum of 9 semester hours (only 6 hours will apply to the major).*

**COMM 4210 Mass Media Practicum II (1)** Provides hands-on experience at the Muleskinner. Prerequisite: COMM 3200.

**COMM 4240 Media Management (2)** Elements involved in the organization and successful operation of mass media enterprises; special emphasis upon interpersonal problems.

**COMM 4245 Media Economics and Sales (3)** Business aspects of mass media in a competitive economy, including techniques for selling advertising space and time.

**COMM 4250 Mass Communication Law (3)** Application of principles of law to the mass communication media, media practice, advertising, and freedom of information, including libel, right of privacy, copyright. Prerequisite: Junior, senior or graduate standing.

**COMM 4260 Comparative Media Systems (2)** Role of mass media in major countries and in developing areas; sociopolitical, economic, cultural and historical perspective.

**COMM 4280 Criticism of Mass Media (2)** Evaluation of the products of the audiovisual and print media, social effects, and the historical bases of public criticism of the individual media.

**COMM 4285 Women and Minorities in Media (3)** The study of women and minorities, their contributions and images, in a variety of media. Prerequisite: COMM 1200 or COMM 3010 or consent of instructor.

**COMM 4290 Special Projects in Mass Communication (1-3)** Individual study/research in mass communication. *May be repeated for a maximum of 3 semester hours.* Prerequisite: written consent.

**COMM 4295 Internship (1-6)** A practical training experience for the application of mass media and/or public relations principles. *May be repeated for a maximum of 6 semester hours.* Prerequisites: completion of the preadmission requirements for internship placement and departmental approval.

**COMM 4300 Special Projects in Speech Communication (1-3)** *May be repeated for a maximum of 6 semester hours.* Prerequisite: Consent.

**COMM 4320 Persuasion (2)** Emotive, cognitive, and behavioral sources of persuasive appeal.

**COMM 4330 Theories of Interpersonal Communication (3)** An in-depth study of selected theories and supporting research findings of the communication process as it occurs in informal face-to-face situations.

**COMM 4335 Gender Communication (3)** Gender as it influences communication processes in intrapersonal, interpersonal, group, public and mediated contexts. Prerequisite: COMM 3010 or consent of instructor.

**COMM 4340 Classical Rhetorical Theory (3)** Foundations and development of rhetorical theory during the Classical Period with special emphasis given to Plato, Aristotle, Cicero, and Quintilian.

**COMM 4345 Modern Rhetorical Theory (3)** An examination of significant movements in the development of twentieth century rhetorical theory including the contributions of Kenneth Burke, Richard Weaver, and Marshall McLuhan.

**COMM 4390 Contemporary Communication (2)** Public address as it functions in contemporary society in a variety of traditional and mass media settings.

**COMM 4410 Video Production III (3)** Preparation and production of short programs, with emphasis on advanced shooting and editing techniques. Prerequisite: COMM 3411 or COMM 3412.

**COMM 4415 Screenplay Writing (3)** Principles, techniques and formats of dramatic screenwriting for film and television.

**COMM 4470 Corporate and Organizational Media Production (3)** Production of instructional, training and informational videos for use within corporations and other organizations.

**COMM 4475 New Media Technologies (2)** Technological developments and their uses (existing and potential) as information distribution systems.

**COMM 4490 Senior Capstone Seminar (2)** Preparation of a portfolio and 're'sume' tape representing the student's best work; in addition, students will participate in assisting and tutoring students in lower-level courses in the major. Prerequisite: instructor's permission.

**COMM 4500 Heritage of American Journalism (3)** Development of the American press from colonial days to modern times; factors affecting the shape and contents of the press in contemporary society.

**COMM 4510 Magazine Design and Production (3)** The magazine process from the collection of raw material through layout and design to the circulation of the finished product. Prerequisites: COMM 2625, COMM 3625.

**COMM 4520 Editorial and Interpretative Writing (3)** Principles and techniques of editorial and interpretative article writing; relationship between the news, the editorial and the business aspects of a newspaper. Prerequisite: COMM 3525.

**COMM 4522 Desktop Design for Teachers (3)** Instructs students in the use of QuarkXpress for newspaper design and makeup. Prerequisite: COMM 2520 or consent.

**COMM 4535 Advanced News Reporting (3)** Problems and techniques of researching and gathering material for in-depth news reporting concerning the political, economic, and social aspects of contemporary society. Prerequisite: COMM 3525.

**COMM 4555 Advanced Editing (3)** Provides advanced editing skills for news media. Emphasis on news judgment, language use, copy improvement, headline and outline writing, wire services, photo editing, page layout and design. Prerequisite: COMM 2520.

**COMM 4571 Methods of Teaching Journalism (3)** Practical methods in the teaching of journalism. Prerequisite: admission to the journalism minor, Bachelor of Science in Education

**COMM 4680 Publicity (3)** Overview of the publicity process including written, spoken, and/or videotaped messages using the mass media as a public relations tool. Prerequisites: COMM 2620 and COMM 3620.

**COMM 4685 Case Studies in Public Relations (2)** Public relations problems of individual business and civic organizations; analysis of actual and proposed solutions. Prerequisite: COMM 2620 and COMM 3620.

**COMM 4690 Campaigns (3)** Overview of the public relations campaign process with actual "hands on" application. Students will plan, organize and conduct an actual campaign for an organization. Prerequisite: COMM 4680 and COMM 4685.

**COMM 4780 Advanced Theories of Organizational Communication (3)** A consideration of theories and principles of communication structures and systems within organizations.

**COMM 4781 Assessment of Organizational Communication (2)** The assessment and measurement of human interaction within professional settings.

**COMM 4783 Communication Training (3)** Communication as the coupling that holds organizations together and the agent of change that ensures health and growth. Students will assess needs and determine communication links; design, develop, and implement learning modules for human resource development; and design and interpret evaluation means to determine the effectiveness of the training. Prerequisite: Consent of instructor.

**COMM 4785 Internship in Speech Communication (1-6)** The application of speech communication principles and theories in business, industry, and government settings. *May be repeated for a maximum of 6 semester hours.* Prerequisites: COMM 2330, COMM 2380, COMM 3327, and COMM 4780 with a grade of "C" or better. COMM 4780 may be taken concurrently with COMM 4785 with the permission of the department chair.

**Integrative Studies General**

**IGEN 3224 Critical Thinking (3)** Provides insight into and application of the skills needed to think critically about interpersonal and media messages, as well as analyze information.

**IGEN 3232 Media Literacy (3)** Explores the relationships among media, its consumers, and producers. Integrates cultural, technological, and economic perspectives on mass media and visual communication.

**IGEN 4224 Communication, Science and Technology (3)** Students will focus on the interactions among science, technology and society by examining scientific communication and scientific technological controversies. Prerequisite: completion of General Education Div. II A.

**English and Philosophy**

**English**

In the section of English, the second digit in the course number stands for the following: 0-Rhetoric and Composition, 1-Language Study and Grammar, 2-Literary Study and Criticism, 3-English Literature Before 1500 and English Literature From 1500 to 1640, 4-English Literature From 1640 to 1800, 5-English Literature From 1800 to 1900, 6-American Literature From Its Beginnings to 1914, 7-Modern Literature, 8-Teaching Methods in English, 9-Research and Readings.

**ENGLISH**

**Major, Bachelor of Arts Degree (42-303)**

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

- Appreciate the aesthetics of literature; understand its origins, trends, critical approaches, classifications, and limitations; and evaluate significant patterns of meaning found in its study.
- Write and speak with clarity, originality, grammatical correctness, and logic, demonstrating rhetorical skills necessary for successful communication.
- Accomplish primary and secondary research, incorporating the results into formal written and oral presentations.
- Understand language diversity as well as language uses, the relationship between spoken and written language, historical developments and social/cultural adaptations.
- Understand the relationship between a work of literature and the historical/cultural milieu in which it was written.

Sem. Hours

**MAJOR REQUIREMENTS . . . . . 39**

ENGL 2200	World Masterpieces . . . . .	3
ENGL 3120	History of English Language . . . . .	3
ENGL 3240	Critical Approaches to Literature . . . . .	3
ENGL 4360	Shakespeare . . . . .	3
	3000-4000 level electives in English . . . . .	9

**British Literature**

Select British Literature Area A or B . . . . . 9

**British Literature Area A**

ENGL 2210	British Literature to 1798 . . . . .	3
	Electives from the following . . . . .	6
ENGL 4500	19th Century English Novel . . . . .	3
ENGL 4510	Romantic Poets & Essayists . . . . .	3
ENGL 4540	Victorian Poets & Essayists . . . . .	3
ENGL 4560	British Women Writers . . . . .	3
ENGL 4700	British Fiction 1890 to Present . . . . .	3
ENGL 4720	Modern British Poetry . . . . .	3

**British Literature Area B**

ENGL 2215	British Lit. 1798 to Present . . . . .	3
	Electives from the following . . . . .	6
ENGL 4310	Chaucer . . . . .	3
ENGL 4330	Renaissance English Writers . . . . .	3
ENGL 4340	Old & Middle English Lit. . . . .	3
ENGL 4450	The Age of Milton . . . . .	3
ENGL 4460	The Age of Pope & Johnson . . . . .	3

**American Literature**

Select American Literature Area A or B . . . . . 9

**American Literature Area A**

ENGL 2200	American Literature to 1865 . . . . .	3
	Electives from the following . . . . .	6
ENGL 4640	American Realists & Naturalists . . . . .	3
ENGL 4660	Women Writers of the United States . . . . .	3
ENGL 4670	Ethnic American Lit. . . . .	3
ENGL 4680	African American Lit. . . . .	3
ENGL 4710	Modern American Fiction . . . . .	3
ENGL 4730	Modern American Poetry . . . . .	3

<b>American Literature Area B</b>	
ENGL 2205	American Lit. 1865 to Present . . . . . 3
Electives from the following . . . . . 6	
ENGL 4610	American Renaissance . . . . . 3
ENGL 4620	Early American Literature . . . . . 3
ENGL 4670	Ethnic American Lit. . . . . 3
ENGL 4680	African American Lit. . . . . 3
<b>MINOR REQUIREMENTS</b>	<b>18-25</b>
<b>GENERAL EDUCATION REQUIREMENT</b> (pages 34-43) The Modern Language Requirement fulfills 3 s.h. of Div. II C. ENGL 2220 in the major fulfills 3 s.h. of Div. II C . . . . . 42	
<b>MODERN LANGUAGE REQUIREMENT</b>	<b>3-9</b>
Refer to Bachelor's Degree Requirements section for fulfillment options.	
<b>FREE ELECTIVES</b>	<b>9-22</b>
<b>MINIMUM TOTAL</b>	<b>124</b>

**ENGLISH**

**Major, Bachelor of Science in Education Degree**

Certification to teach English in grades 9-12 (41-311)

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

- Appreciate the aesthetics of literature; understand its origins, trends, critical approaches, classifications, and limitations; and evaluate significant patterns of meaning found in its study.
- Write and speak with clarity, originality, grammatical correctness, and logic, demonstrating rhetorical skills necessary for successful communication.
- Accomplish primary and secondary research, incorporating the results into formal written and oral presentations.
- Understand language diversity as well as language uses, the relationship between spoken and written language, historical developments and social/cultural adaptations, and particular and universal linguistic features.
- Understand the relationship between a work of literature and the historical/cultural milieu in which it was written.
- Identify the components of a sound language arts curriculum at the secondary school level.
- Understand and apply currently accepted teaching theory and practice.
- Develop a personal philosophy and teaching style that accounts for diverse student backgrounds, needs, and abilities and that reflects growing teacher expertise.

	Sem. Hours
<b>MAJOR REQUIREMENTS</b>	<b>39-40</b>
ENGL 2220	World Masterpieces . . . . . 3
ENGL 2830	Literature for Adolescents . . . . . 3
ENGL 3040	Advanced Rhetoric . . . . . 3
ENGL 3110	English Grammar . . . . . 3
ENGL 3120	History of English Language . . . . . 3
ENGL 3240	Critical Approaches to Literature . . . . . 3
ENGL 4840	Composition & Evaluation . . . . . 3
3000 - 4000	Level Elective in English . . . . . 3

**British Literature**

Select British Literature Area A or B . . . . . 9

**British Literature Area A**

ENGL 2210	British Literature to 1798 . . . . . 3
Electives from the following . . . . . 6	
ENGL 4500	19th Century English Novel . . . . . 3
ENGL 4510	Romantic Poets & Essayists . . . . . 3
ENGL 4540	Victorian Poets & Essayists . . . . . 3
ENGL 4560	British Women Writers . . . . . 3
ENGL 4700	British Fiction 1890 to Present . . . . . 3
ENGL 4720	Modern British Poetry . . . . . 3

**British Literature Area B**

ENGL 2215	British Lit. 1798 to Present . . . . . 3
Electives from the following . . . . . 6	
ENGL 4310	Chaucer . . . . . 3
ENGL 4330	Renaissance Engl. Writers . . . . . 3
ENGL 4340	Old & Middle English Lit. . . . . 3
ENGL 4360	Shakespeare . . . . . 3
ENGL 4450	The Age of Milton . . . . . 3
ENGL 4460	Age of Pope & Johnson . . . . . 3

**American Literature**

Select American Literature Area A or B . . . . . 9

**American Literature Area A**

ENGL 2200	American Literature to 1865 . . . . . 3
Electives from the following . . . . . 6	
ENGL 4640	American Realists & Naturalists . . . . . 3
ENGL 4660	Women Writers of the U. S. . . . . 3
ENGL 4670	Ethnic American Literature . . . . . 3
ENGL 4680	African American Literature . . . . . 3
ENGL 4710	Modern American Fiction . . . . . 3
ENGL 4730	Modern American Poetry . . . . . 3

**American Literature Area B**

ENGL 2205	American Literature 1865 to Present . . . . . 3
Electives from the following . . . . . 6	
ENGL 4610	American Renaissance . . . . . 3
ENGL 4620	Early American Literature . . . . . 3
ENGL 4670	Ethnic American Literature . . . . . 3
ENGL 4680	African American Literature . . . . . 3

**MINOR REQUIREMENTS** . . . . . 18-25

**GENERAL EDUCATION REQUIREMENTS** (pages 34-43) In the professional education requirements, ICAP 4468 fulfills

3 s.h. of Div. IV B . . . . . 45

Secondary Education students must have one course in a physical or earth science and one in a biological science in Div. II A.

HIST 1350	Div. II B or	
HIST 1351	Div. II B (required)	3
POLS 1510	Div. II B (required)	3
ENGL 2220	Div. II C (required)	3
PSY 4230	Psychology of Adolescence	3

Secondary Education students will be allowed to substitute PSY 4230 to fulfill 3 s.h. in Div. III.

**PROFESSIONAL EDUCATION REQUIREMENTS** (page 115) . . . . . 28

**MINIMUM TOTAL** . . . . . 130

**ENGLISH**

**Functional Major, Bachelor of Science in Education Degree**

Certification to teach English in grades 9-12 (41-313)

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

- Appreciate the aesthetics of literature; understand its origins, trends, critical approaches, classifications, and limitations; and evaluate significant patterns of meaning found in its study.
- Write and speak with clarity, originality, grammatical correctness, and logic, demonstrating rhetorical skills necessary for successful communication.
- Accomplish primary and secondary research, incorporating the results into formal written and oral presentations.
- Understand language diversity as well as language uses, the relationship between spoken and written language, historical developments and social/cultural adaptations, and particular and universal linguistic features.
- Understand the relationship between a work of literature and the historical/cultural milieu in which it was written.
- Identify the components of a sound language arts curriculum at the secondary school level.
- Understand and apply currently accepted teaching theory and practice.
- Develop a personal philosophy and teaching style that accounts for diverse student backgrounds, needs, and abilities and that reflects growing teacher expertise.

	Sem. Hours
<b>FUNCTIONAL MAJOR REQUIREMENTS</b> . . . . .	<b>52-55</b>
ENGL 2220 World Masterpieces . . . . .	3
ENGL 2830 Literature for Adolescents . . . . .	3
ENGL 3040 Advanced Rhetoric . . . . .	3
ENGL 3110 English Grammar . . . . .	3
ENGL 3120 History of English Language . . . . .	3
ENGL 3240 Critical Approaches to Literature . . . . .	3
ENGL 4840 Composition & Evaluation . . . . .	3
3000 - 4000 Level Electives in English . . . . .	6
<b>British Literature</b>	
ENGL 4360 Shakespeare . . . . .	3
Select British Literature Area A or B . . . . .	9
<b>British Literature Area A</b>	
ENGL 2210 British Literature to 1798 . . . . .	3
Electives from the following . . . . .	6
ENGL 4500 19th Century English Novel . . . . .	3
ENGL 4510 Romantic Poets & Essayists . . . . .	3
ENGL 4540 Victorian Poets & Essayists . . . . .	3
ENGL 4560 British Women Writers . . . . .	3
ENGL 4700 British Fiction 1890 to Present . . . . .	3
ENGL 4720 Modern British Poetry . . . . .	3
<b>British Literature Area B</b>	
ENGL 2215 British Lit. 1798 to Present . . . . .	3
Electives from the following . . . . .	6
ENGL 4310 Chaucer . . . . .	3
ENGL 4330 Renaissance Engl. Writers . . . . .	3
ENGL 4340 Old & Middle English Lit. . . . .	3
ENGL 4450 The Age of Milton . . . . .	3
ENGL 4460 The Age of Pope & Johnson . . . . .	3
<b>American Literature</b>	
Select American Literature Area A or B . . . . .	9
<b>American Literature Area A</b>	
ENGL 2200 American Literature to 1865 . . . . .	3
Electives from the following . . . . .	6
ENGL 4640 American Realists & Naturalists . . . . .	3
ENGL 4660 Women Writers of the U. S. . . . .	3
ENGL 4670 Ethnic American Literature . . . . .	3
ENGL 4680 African American Literature . . . . .	3
ENGL 4710 Modern American Fiction . . . . .	3
ENGL 4730 Modern American Poetry . . . . .	3
<b>American Literature Area B</b>	
ENGL 2205 American Lit. 1865 to Present . . . . .	3
Elective from the following . . . . .	3
ENGL 4610 American Renaissance . . . . .	3
ENGL 4620 Early American Literature . . . . .	3
ENGL 4670 Ethnic American Literature . . . . .	3
ENGL 4680 African American Literature . . . . .	3
<b>British Literature</b>	
ENGL 2210 British Literature to 1798, 3 or	3
ENGL 2215 British Lit. 1798 to Present, 3 . . . . .	3
<b>Cognates</b>	
Select one of the Cognate Areas A, B, C, or D . . . . .	6-9
<b>Cognate Area A</b>	
PHIL 1000 Introduction to Philosophy . . . . .	3
Electives in Philosophy . . . . .	6
<b>Cognate Area B</b>	
REL 1510 Exploring Religion . . . . .	3
Electives in Religious Studies . . . . .	6
<b>Cognate Area C</b>	
Electives in History . . . . .	6
<b>Cognate Area D</b>	
Electives from one modern language . . . . .	9
<b>MINOR NOT REQUIRED</b>	
<b>GENERAL EDUCATION REQUIREMENTS</b> (pages 34-43) In the functional major, if elected, PHIL 1000, REL 1510, or modern language fulfills 3 s.h. of Div. II C; in the professional education requirements, ICAP 4468 fulfills 3 s.h. of Div. III B) . . . . .	
<b>42-45</b>	
Secondary Education students must have one course in a physical or earth science and one in a biological science in Div. II A.	

HIST 1350	Div. II B or	
HIST 1351	Div. II B (required)	3
POLS 1510	Div. II B (required)	3
ENGL 2220	Div. II C (required)	3
PSY 4230	Psychology of Adolescence	3
Secondary Education students will be allowed to substitute PSY 4230 to fulfill 3 s.h. in Div. III.		
<b>PROFESSIONAL EDUCATION REQUIREMENTS</b> (page 115)		<b>28</b>
<b>MINIMUM TOTAL</b>		<b>125</b>

**ENGLISH**  
**Minor, Bachelor of Science in Education Degree**  
 Certification to teach English in grades 5-9 with a middle school-junior high school major.  
 Elementary education functional majors may use this as an area of concentration.  
 (305)

	Sem. Hours
<b>MINOR REQUIREMENTS</b> . . . . .	<b>24</b>
ENGL 2220 World Masterpieces . . . . .	3
ENGL 3110 English Grammar . . . . .	3
ENGL 3120 History of English Language . . . . .	3
ENGL 4840 Composition & Evaluation . . . . .	3
3000 - 4000 Level Elective in English . . . . .	3
<b>American Literature</b>	
Select American Literature Area A or B . . . . .	6
<b>American Literature Area A</b>	
ENGL 2200 American Literature to 1865 . . . . .	3
Elective from the following . . . . .	3
ENGL 4640 American Realists & Naturalists . . . . .	3
ENGL 4660 Women Writers of the U. S. . . . .	3
ENGL 4670 Ethnic American Literature . . . . .	3
ENGL 4680 African American Literature . . . . .	3
ENGL 4710 Modern American Fiction . . . . .	3
ENGL 4730 Modern American Poetry . . . . .	3
<b>American Literature Area B</b>	
ENGL 2205 American Lit. 1865 to Present . . . . .	3
Elective from the following . . . . .	3
ENGL 4610 American Renaissance . . . . .	3
ENGL 4620 Early American Literature . . . . .	3
ENGL 4670 Ethnic American Literature . . . . .	3
ENGL 4680 African American Literature . . . . .	3
<b>British Literature</b>	
ENGL 2210 British Literature to 1798, 3 or	3
ENGL 2215 British Lit. 1798 to Present, 3 . . . . .	3

**GENERAL EDUCATION REQUIREMENTS** (pages 34-43) ENGL 2220, in the minor fulfills 3 s.h. of Div. II C.

**ENGLISH**  
**Minor for a Bachelor's Degree**  
 Except for a Bachelor of Science in Education Degree (2009)

	Sem. Hours
<b>MINOR REQUIREMENTS</b> . . . . .	<b>23</b>
ENGL 2220 World Masterpieces . . . . .	3
ENGL 3120 History of English Language . . . . .	3
ENGL 4360 Shakespeare . . . . .	3
3000-4000 level electives in English . . . . .	3
<b>British Literature</b>	
Select British Literature Area A or B . . . . .	6
<b>British Literature Area A</b>	
ENGL 2210 British Literature to 1798 . . . . .	3
Elective from the following . . . . .	3
ENGL 4500 19th Century English Novel . . . . .	3
ENGL 4510 Romantic Poets & Essayists . . . . .	3
ENGL 4540 Victorian Poets & Essayists . . . . .	3
ENGL 4560 British Women Writers . . . . .	3
ENGL 4700 British Fiction 1890 to Present . . . . .	3

ENGL 4720	Modern British Poetry . . . . .	3
<b>British Literature Area B</b>		
ENGL 2215	Brit. Lit. 1798 to Present . . . . .	3
Elective from the following . . . . . 3		
ENGL 4310	Chaucer . . . . .	3
ENGL 4330	Renaissance English Writers . . . . .	3
ENGL 4340	Old & Middle English Lit. . . . .	3
ENGL 4450	The Age of Milton . . . . .	3
ENGL 4460	The Age of Pope & Johnson . . . . .	3
<b>American Literature</b>		
Select American Literature Area A or B . . . . . 6		
<b>American Literature Area A</b>		
ENGL 2200	American Literature to 1865 . . . . .	3
Elective from the following . . . . . 3		
ENGL 4640	American Realists & Naturalists . . . . .	3
ENGL 4660	Women Writers of the U.S. . . . .	3
ENGL 4670	Ethnic American Literature . . . . .	3
ENGL 4680	African American Literature . . . . .	3
ENGL 4710	Modern American Fiction . . . . .	3
ENGL 4730	Modern American Poetry . . . . .	3
<b>American Literature Area B</b>		
ENGL 2205	American Lit. 1865 to Present . . . . .	3
Elective from the following . . . . . 3		
ENGL 4610	American Renaissance . . . . .	3
ENGL 4620	Early American Literature . . . . .	3
ENGL 4670	Ethnic American Literature . . . . .	3
ENGL 4680	African American Literature . . . . .	3

**GENERAL EDUCATION REQUIREMENTS** (pages 34-43) ENGL 2220, in the minor fulfills 3 s.h. of Div. II C.

**CREATIVE WRITING**

**Minor for a Bachelor's Degree**

UCM does not confer teacher certification for this minor (490)

	Sem. Hours
<b>MINOR REQUIREMENTS . . . . .</b>	<b>21</b>
ENGL 2050 Creative Writing . . . . .	3
Electives from the following . . . . .	3-6
ENGL 3051 Advanced Poetry Writing . . . . .	3
ENGL 3052 Advanced Fiction Writing . . . . .	3
Electives from the following . . . . .	3-6
ENGL 4051 Writing Poetry for Publication . . . . .	3
ENGL 4052 Writing Fiction for Publication . . . . .	3
ENGL 4053 Writing Non-fiction for Publication . . . . .	3
Electives from the following . . . . .	9-12
English (at least 3 hours must be 3000 or 4000 level)	3-12
COMM 4415 Screenplay Writing . . . . .	3
THEA 4800 Playwriting . . . . .	1-3

**Rhetoric and Composition**

NOTE: Students desiring preparatory courses to ENGL 1020 should see "Academic Enrichment" in this catalog.

**ENGL 1020 Composition I (3)** The logic and rhetoric of expository writing. Prerequisite: placement according to University policy applies.

**ENGL 1030 Composition II (3)** Advanced writing involving research and a generic study of literature. Prerequisite: ENGL 1020 or equivalent.

**ENGL 1080 Advanced Composition (3)** The logic and rhetoric of expository writing taught at an advanced level, involving research. Prerequisite: placement according to University policy applies.

**ENGL 2050 Creative Writing (3)** Introduces students to terminology and techniques in writing and analyzing poetry and fiction; lecture and workshop format.

**ENGL 3040 Advanced Rhetoric (3)** Practice in the devices of effective writing. Prerequisite: admission to Teacher Education Program for English majors and functional majors, Bachelor of Science in Education degree.

**ENGL 3051 Advanced Poetry Writing (3)** Poetry writing at advanced level; written and oral analysis of students' creative work; preparation of individualized portfolio (may include research); workshops. Prerequisites: ENGL 2050 or consent of instructor.

**ENGL 3052 Advanced Fiction Writing (3)** Fiction writing at advanced level; written and oral analysis of students' creative work; preparation of individualized portfolio (may include research); workshops. Prerequisites: ENGL 2050 or consent of instructor.

**ENGL 4051 Writing Poetry for Publication (3)** Poetry writing at advanced level; written and oral analysis of published works and of students' submissions; preparation of individualized portfolio; individualized research into publishing. Prerequisites: ENGL 2050, ENGL 3051, ENGL 3052 or consent of instructor.

**ENGL 4052 Writing Fiction for Publication (3)** Fiction writing at advanced level; written and oral analysis of published works and of students' submissions; preparation of individualized portfolio; individualized research into publishing. Prerequisites: ENGL 2050 and one of the following: ENGL 3051 or 3052, or consent of instructor.

**ENGL 4053 Writing Non-fiction for Publication (3)** Non-fiction prose writing at advanced level; written and oral analysis of published works and of students' submissions; preparation of individualized portfolio; individualized research into publishing. Prerequisites: ENGL 2050 and one of the following: ENGL 3051 or 3052, or consent of instructor.

**ENGL 4054 Practicum in Editing and Publishing\* (3)** Hands on experience in editing and publishing in such areas as literary editing and publishing, technical writing, books editing, legal writing, and others. Prerequisite: Consent of instructor. \*Not available for graduate credit.

**Language Study and Grammar**

**ENGL 1180 Spoken English as a Second Language (3)** Guided practice for non-native English speakers in comprehending and producing oral English for academic purposes.. *May be repeated for a maximum of 6 semester hours.*

**ENGL 1190 Written English as a Second Language (3)** Guided practice for non-native English speakers in writing English for academic purposes. *May be repeated for a maximum of 6 semester hours.* Prerequisite: ENGL 1180 or consent of the English as a Second Language Committee.

**ENGL 3110 English Grammar (3)** A comparative study of English grammars with strong emphasis on traditional grammar and including structural and transformational approaches. Prerequisite: for English majors pursuing a Bachelor of Science in Education degree - Admission to Teacher Education Program.

**ENGL 3120 History of English Language (3)** Growth and nature of the English language.

**ENGL 4110 Linguistics (3)** Introduction to the study of language as a system of human communication.

**ENGL 4120 Language and Culture (3)** Exploration of the nature of culture and its impact on perceptions, communication, behavior, and ways of learning with emphasis on its influence on school achievement.

**Literary Study and Criticism**

**ENGL 2200 American Literature to 1865 (3)** An introduction to major American authors and works from the colonial period to the Civil War. Prerequisites: ENGL 1020 and ENGL 1030, or ENGL 1080, or equivalents.

**ENGL 2205 American Literature 1865 to Present (3)** An introduction to major American authors and works from the Civil War to the present. Prerequisites: ENGL 1020 and ENGL 1030, or ENGL 1080, or equivalents.

**ENGL 2210 British Literature to 1798 (3)** An introduction to major British authors and works from 700 to 1798. Prerequisites: ENGL 1020 and ENGL 1030, or ENGL 1080, or equivalents.

**ENGL 2215 British Literature 1798 to Present (3)** An introduction to major British authors and works from 1798 to the present. Prerequisites: ENGL 1020 and ENGL 1030, or ENGL 1080, or equivalents.

**ENGL 2220 World Masterpieces (3)** Major works of world literature, excluding British and American. Prerequisites: ENGL 1020 and ENGL 1030, or ENGL 1080, or equivalents.

**ENGL 2230 Literature and Film (3)** Reading and discussion of selected novels and film scripts combined with laboratory viewing sessions.

**ENGL 2240 Literature and the Arts (3)** A course relating literature to the arts of painting, sculpture, architecture, music, and the dance.

**ENGL 2270 Fiction by Women Around the World (3)** Novels and short stories by women around the globe.

**ENGL 2290 Science Fiction and Fantasy (2)** An introduction to science fiction and fantasy.

**ENGL 3230 Special Topics in Gothic Literature (3)** This course is designed to cover topics in the literature of horror and the supernatural of interest to English majors and non-majors.

**ENGL 3240 Critical Approaches to Literature (3)** Introduces students to literary criticism and its practical application through the study of literary texts and critical essays, and through writing assignments.

#### English Literature Before 1500

**ENGL 4310 Chaucer (3)** Life and times of Chaucer with extensive reading in his major works. Prerequisite for English majors: ENGL 2215.

**ENGL 4340 Old and Middle English Literature (3)** Literary genres and contributions from *Beowulf* to 1500 (excluding Chaucer). Prerequisite for English majors: ENGL 2215.

#### English Literature From 1500 to 1640

**ENGL 4330 Renaissance English Writers (3)** Literary figures of the Elizabethan and Jacobean periods, excluding Shakespeare. Prerequisite for English majors: ENGL 2215.

**ENGL 4360 Shakespeare (3)** Study seven or more Shakespearean plays, including comedies, histories, tragedies and romances, with attention to Renaissance backgrounds, literary analysis, and theatrical traditions. Prerequisite for English majors: ENGL 2210 or ENGL 2215.

#### English Literature From 1640 to 1800

**ENGL 4450 The Age of Milton (3)** English poetry, prose, and drama of the Puritan and Restoration times. Prerequisite for English majors: ENGL 2215.

**ENGL 4460 The Age of Pope and Johnson (3)** Fiction, poetry, essays and drama during the times of Pope and Johnson. Prerequisite for English majors: ENGL 2215.

#### English Literature From 1800 to 1900

**ENGL 4500 Nineteenth Century English Novel (3)** Representative novels from Austen through Gaskell. Prerequisite for English majors: ENGL 2210.

**ENGL 4510 Romantic Poets and Essayists (3)** Major poets and essayists of the English Romantic period. Prerequisite for English majors: ENGL 2210.

**ENGL 4540 The Victorian Poets and Essayists (3)** Major poets and essayists of the English Victorian period. Prerequisite for English majors: ENGL 2210.

**ENGL 4560 British Women Writers (3)** Study of major works by British women writers, with an introduction to feminist criticism. Prerequisite for English majors: ENGL 2210.

#### American Literature From Its Beginnings to 1914

**ENGL 3660 Studies in Literature and Philosophy (3)** An interdisciplinary approach to the study of literature and philosophy. Course instructors will change to fit the particular topic of the course.

**ENGL 4610 American Renaissance (3)** The works of Emerson, Hawthorne, Thoreau and Melville. Prerequisite for English majors: ENGL 2205.

**ENGL 4620 Early American Literature (3)** Major figures of colonial, federal, and early 19th century literature. Prerequisite for English majors: ENGL 2205.

**ENGL 4640 American Realists and Naturalists (3)** Works of Twain, Howells, James, Dreiser, Chopin, and Crane. Prerequisite for English majors: ENGL 2200.

**ENGL 4660 Women Writers of the United States (3)** Prerequisite for English majors: ENGL 2200.

**ENGL 4670 Ethnic American Literature (3)** A survey of America's old and new ethnic writing, with particular emphasis on Native, Asian, Hispanic, and African American writers and a general emphasis on other groups. Prerequisite for English majors: ENGL 2200 or ENGL 2205.

**ENGL 4680 African American Literature (3)** A survey of African American writers from the Colonial period to the present with emphasis on twentieth century writers. Prerequisite for English majors: ENGL 2200 or ENGL 2205.

#### Modern Literature

**ENGL 4700 British Fiction 1890 to Present (3)** Representative fiction by major British authors from 1890 to the present. Prerequisite for English majors: ENGL 2210.

**ENGL 4710 Modern American Fiction (3)** Prerequisite for English majors: ENGL 2200.

**ENGL 4720 Modern British Poetry (3)** British poetry of the twentieth century. Prerequisite for English majors: ENGL 2210.

**ENGL 4730 Modern American Poetry (3)** American poetry of the twentieth century. Prerequisite for English majors: ENGL 2200.

**ENGL 4740 Modern Drama (2)** Readings in the significant drama of the Western World from Ibsen and Chekov to the present.

#### Teaching Methods in English

**ENGL 2830 Literature for Adolescents (3)** Reading course intended for those who will teach high school English.

**ENGL 4810 Seminar in Teaching English (2-3)** *May be repeated with different offerings*, such as Individualizing Instruction, Teaching Traditional Grammar, How to Teach the Novel, Techniques of Theme Grading, Teaching Creative Writing, or Teaching Prosody. *May be repeated for a maximum of 6 semester hours of undergraduate credit and 6 semester hours of graduate credit.*

**ENGL 4820 Secondary Field Experience II\* (1)** Experiences in the secondary school classroom that provide the teacher candidate more advanced involvement in the teaching-learning process. Prerequisites: admission to Teacher Education Program; should be taken concurrently with ENGL 4890 during the Professional Semester. \*Not available for graduate credit.

**ENGL 4840 Composition and Evaluation (3)** Techniques of writing and evaluating composition for those planning to teach. Prerequisite: admission to Teacher Education Program for English majors and functional majors, Bachelor of Science in Education degree.

**ENGL 4890 Methods of Teaching English\* (2)** Prerequisites: admission to Teacher Education Program; double majors must take a methods course for each major; methods should be taken concurrently with ENGL 4820 during the Professional Semester. \*Not available for graduate credit.

#### Research and Readings

**ENGL 3990 Special Topics in English (1-3)** Individual or group work by qualified students in areas such as creative writing, literature, or language. *May be repeated for a maximum of 6 semester hours.* Prerequisite: approval of department chair.

**ENGL 4990 Special Projects in English (1-3)** *May be repeated for a maximum of 6 semester hours.*

## Philosophy

In the section of Philosophy, the second digit in the course number stands for the following: 0-General, 1-History, 2-Special Projects, 3-Ethics, 4-Logic, 5-Aesthetics, 6-Special Topics, 7-Religion, 8-Theory of Knowledge.

### PHILOSOPHY

#### Minor for a Bachelor's Degree

UCM does not confer teacher certification for this minor (317)

Students who complete a minor in Philosophy will use the knowledge and skills obtained to:

- Demonstrate knowledge and understanding of the major writings of the eminent philosophers of the classical period and the modern period (16-18th century).
- Demonstrate knowledge and understanding of how philosophical ideas have evolved through the history of philosophy.
- Demonstrate knowledge and understanding of the major theories of ethics (such as virtue ethics, consequentialism, utilitarianism, deontological ethics, etc.) as well as the writings of philosophers such as Plato, Aristotle, Hume, Kant, etc.
- Demonstrate practical competence in applying the techniques of formal and informal logic for evaluating arguments.

	Sem. Hours
MINOR REQUIREMENTS . . . . .	21
PHIL 1000 Introduction to Philosophy . . . . .	3
PHIL 2300 Ethics . . . . .	3
PHIL 3100 History of Phil.: Enlightenment Thought . . .	3
PHIL 3110 History of Philosophy: Ancient Thought . . .	3
PHIL 1400 Deductive Logic , 3 or	
PHIL 1410 Critical Thinking, 3 . . . . .	3
Electives in philosophy . . . . .	6

**GENERAL EDUCATION REQUIREMENTS** (pages 34-43) In the minor, PHIL 1000 fulfills 3 s.h. of Div. II C; PHIL 2300 fulfills 3 s.h. of Div. III.

#### General

**PHIL 1000 Introduction to Philosophy (3)** A first course in philosophy, surveying selected problems and perspectives in metaphysics, ethics, the theory of knowledge and/or philosophy of mind.

#### History

**PHIL 3100 History of Philosophy: Enlightenment Thought (3)** A consideration of and criticism of the views of the major Western philosophers from the end of the Middle Ages through Kant.

**PHIL 3110 History of Philosophy: Ancient Thought (3)** Problems, positions, and arguments in ancient philosophy from the pre-Socratics to the beginning of the Middle Ages, with particular emphasis on Plato and Aristotle.

#### Special Projects

**PHIL 2250 Special Projects in Philosophy (3)** An introduction to an analysis of philosophical problems and theories in the student's major area of study. *May be repeated for a maximum of 6 semester hours.*

#### Ethics

**PHIL 2300 Ethics (3)** An examination of systematic moral philosophies, challenges to the possibility of an objectively correct morality, and application of morality to a variety of specific problems.

#### Logic

**PHIL 1400 Deductive Logic (3)** An introduction to the principles, forms, and methods of valid reasoning by a survey of syllogistic logic, propositional logic, and elementary quantificational logic.

**PHIL 1410 Critical Thinking (3)** An introduction to the basic principles and patterns of good reasoning, emphasizing informal argument analysis and practical applications of logic.

#### Aesthetics

**PHIL 3500 Aesthetics (3)** A survey of philosophy of art from Plato to the present, covering the nature of art, its function in human experience, the basis for standards of evaluation, problems of interpretation, comparisons of different arts, and related topics.

#### Special Topics

**PHIL 3600 Special Topics in Philosophy (1-3)** Individual or group work by qualified and specially selected students in carefully chosen fields, for more intensive study. *May be repeated for a maximum of 6 semester hours.*

**PHIL 3660 Studies in Literature and Philosophy (3)** An interdisciplinary approach to the study of literature and philosophy. Course instructors will change to fit the particular topic of the course.

#### Religion

**PHIL 3710 Philosophy of Religion (3)** The concept of religion, analysis and evaluation of arguments for God's existence, the problem of evil, the nature of religious language, the concept of immortality, and related topics.

#### Theory of Knowledge

**PHIL 3800 Philosophy of Science and Technology (3)** Philosophical examination of the nature of scientific theorizing; the relation between scientific methodology, rationality, and progress; the nature of technology and its relation to science.

#### Aesthetics

**PHIL 3500 Aesthetics (3)** A survey of philosophy of art from Plato to the present, covering the nature of art, its function in human experience, the basis for standards of evaluation, problems of interpretation, comparisons of different arts, and related topics.

#### Special Topics

**PHIL 3600 Special Topics in Philosophy (1-3)** Individual or group work by qualified and specially selected students in carefully chosen fields, for more intensive study. *May be repeated for a maximum of 6 semester hours.*

**PHIL 3660 Studies in Literature and Philosophy (3)** An interdisciplinary approach to the study of literature and philosophy. Course instructors will change to fit the particular topic of the course.

#### Religion

**PHIL 3710 Philosophy of Religion (3)** The concept of religion, analysis and evaluation of arguments for God's existence, the problem of evil, the nature of religious language, the concept of immortality, and related topics.

#### Theory of Knowledge

**PHIL 3800 Philosophy of Science and Technology (3)** Philosophical examination of the nature of scientific theorizing; the relation between scientific methodology, rationality, and progress; the nature of technology and its relation to science.



## History and Anthropology

Sem. Hours

### Department of History and Anthropology

#### Statement of Policy

A course with a grade lower than a "C" will not be allowed to fulfill a major or minor requirement in any program offered by the Department of History and Anthropology.

#### HISTORY

Major, Bachelor of Arts Degree  
(42-420)

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

- Learn and judge the basis of historical knowledge in references, documents, archives, artifacts, and electronic media.
- Differentiate between fact and interpretation, logic and bias; effectively communicate this knowledge in written and technological formats.
- Recognize conceptual frameworks and apply a point-of-view.
- Determine cause-and-effect relationships in the past.
- Read history critically for alternatives.
- Learn lessons from the past by applications to the present.
- Respect the past as prologue to the present.
- Integrate historical knowledge with other fields of study.

Sem. Hours

#### MAJOR REQUIREMENTS . . . . . 39

HIST	1350	History of the U. S. to 1877 . . . . .	3
HIST	1351	History of the U. S. from 1877 . . . . .	3
HIST	2400	History of the Early World . . . . .	3
HIST	2401	Hist. of the Early Modern World . . . . .	3
HIST	2402	Hist. of the Modern World . . . . .	3
SOSC	3010	Writing in Social Sciences . . . . .	3
IGEN	4231	Myth, Memory & Realities . . . . .	3

Upper-level electives in American history . . . . . 6

Upper-level electives in world history . . . . . 9

A minimum of three hours of world history must be non-western history, or HIST 4452 or HIST 4453.

Upper-level elective in history . . . . . 3

#### MINOR REQUIREMENTS . . . . . 18-25

**GENERAL EDUCATION REQUIREMENTS** (pages 34-43) In the major, HIST 1350 fulfills 3 s.h. of Div. II B; the Modern Language Requirement fulfills 3 s.h. of Div. II C; HIST 2402 fulfills 3 s.h. of Div. II D; IGEN 4231 fulfills 3 s.h. of Div. IV A . . . . . 36

**MODERN LANGUAGE REQUIREMENT** Refer to Bachelor's Degree Requirements section for fulfillment options. . . . . 3-9

#### FREE ELECTIVES . . . . . 15-28

#### MINIMUM TOTAL . . . . . 124

#### HISTORY

Major, Bachelor of Science Degree  
(43-421)

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

- Learn and judge the basis of historical knowledge in references, documents, archives, artifacts, and electronic media.
- Differentiate between fact and interpretation, logic and bias; effectively communicate this knowledge in written and technological formats.
- Recognize conceptual frameworks and apply a point-of-view.
- Determine cause-and-effect relationships in the past.
- Read history critically for alternatives.
- Learn lessons from the past by applications to the present.
- Respect the past as prologue to the present.
- Integrate historical knowledge with other fields of study.

#### MAJOR REQUIREMENTS . . . . . 39

HIST	1350	History of the U. S. to 1877 . . . . .	3
HIST	1351	History of the U. S. from 1877 . . . . .	3
HIST	2400	History of the Early World . . . . .	3
HIST	2401	History of the Early Modern World . . . . .	3
HIST	2402	History of the Modern World . . . . .	3
SOSC	3010	Writing in Social Sciences . . . . .	3
IGEN	4231	Myth, Memory & Realities . . . . .	3

Upper-level electives in American history . . . . . 6

Upper-level electives in world history . . . . . 9

A minimum of three hours of world history must be non-western history, or HIST 4452 or HIST 4453.

Upper-level elective in history . . . . . 3

#### MINOR REQUIREMENTS . . . . . 18-25

**GENERAL EDUCATION REQUIREMENTS** (pages 34-43) In the major, HIST 1350 fulfills 3 s.h. of Div. II B; HIST 2402 fulfills 3 s.h. of Div. II D; IGEN 4231 fulfills 3 s.h. of Div. IV A . . . . . 39

#### FREE ELECTIVES . . . . . 21-28

#### MINIMUM TOTAL . . . . . 124

#### HISTORY

Minor for a Bachelor's Degree

UCM does not confer teacher certification for this minor  
(422)

Sem. Hours

#### MINOR REQUIREMENTS . . . . . 20

HIST	1350	History of the U. S. to 1877 . . . . .	3
HIST	1351	History of the U. S. from 1877 . . . . .	3
HIST	2400	History of the Early World . . . . .	3
HIST	2401	History of the Early Modern World . . . . .	3
HIST	2402	History of the Modern World . . . . .	3

Upper-level electives in history . . . . . 5

**GENERAL EDUCATION REQUIREMENTS** (pages 34-43) In the minor, HIST 1350 fulfills 3 s.h. of Div. II B; HIST 2402 fulfills 3 s.h. of Div. II D

#### American History

**HIST 1350 History of the United States to 1877 (3)** Survey of U.S. history from the age of exploration to 1877. Fulfills state requirements of Section 170.011 RSMo.

**HIST 1351 History of the United States from 1877 (3)** Survey of U.S. history from 1877 to present. Fulfills state requirements of Section 170.011 RSMo.

**HIST 4300 Missouri History (3)** Missouri history from earliest times to the present.

**HIST 4301 American Historical Biography (3)** Biographies of selected American political leaders and molders of opinion and institutions showing the interaction of men/women and their times and the resulting influences on American development.

**HIST 4307 American Colonial History 1607-1763 (3)** American political, economic, and cultural institutions in the colonial period.

**HIST 4309 The African-American in American History (3)** Economic, political, and social development of the African-American in the United States.

**HIST 4310 Women in America (3)** Women in America from colonial times to the present with emphasis upon the nineteenth century feminist movement and the recent twentieth century women's rights movement.

**HIST 4311 Revolution and Republic (3)** American political, economic, and cultural institutions from 1763 to the War of 1812.

**HIST 4314 Jacksonian America (3)** Cultural, social, political and economic development of the United States from the War of 1812 to 1848.

**HIST 4315 The Civil War and Reconstruction (3)** The causes of the war, the social, political, economic and military impact of the war; and the post-war reconstruction process.

**HIST 4316 The American Military Experience (3)** A military history of the American people from colonial times to the present, specifically designed to satisfy the Professional Military Education component of the Military Qualifications Standards required of all candidates for commissioning in the United States Army.

**HIST 4317 The Jazz Age and the Great Depression (3)** The social, cultural and political trends of the Jazz Age, the social and economic impact of the Great Depression, and the advent of the New Deal.

**HIST 4320 History of the Westward Movement (3)** Economic, social, cultural, and political contributions to American development by the Westward Movement.

**HIST 4321 History of the South (3)** Social, economic, and political development of the South from colonial times to the present.

**HIST 4322 The United States During the Era of the Cold War (3)** Emphasizes political, social, economic, and foreign policy developments from the end of WW II (1945) to the end of the Cold War (1992).

**HIST 4324 Truman and Civil Rights (3)** This course analyzes the civil rights record of President Harry S. Truman.

**HIST 4325 History of American Diplomacy (3)** Foreign relations of the United States with emphasis on the period since 1900.

**HIST 4326 Native American History of the United States (3)** A survey of relations between Native Americans and Euro-Americans from colonial times to the present.

**HIST 4327 African American Women, Gender, and Girlhood (3)** This course focuses on the history and development of black women and girls from their African origins to the present.

**HIST 4330 The United States and World War II (3)** The rise of totalitarianism in the 1930's, America's reaction to totalitarianism, the war in Europe 1939-41 and America's reaction, America in World War II, the impact of World War II upon American society, and the post-war settlement and the Cold War.

**HIST 4331 The Vietnam Era (3)** Vietnam in the pre-French (1880's) era, France in Vietnam until 1954, the gradual U.S. involvement in Vietnam 1954-64, the Vietnam war 1964-73, Vietnam of the post-American involvement era to the present and finally an analysis of the impact of the Vietnam war on American society.

**HIST 4351 Special Projects in American History (1-6)** Study, interpretation, and discussion of special topics and problems in American history. *May be repeated for a maximum of 6 semester hours.*

#### World History: Surveys

**HIST 2400 History of the Early World (3)** A survey of ancient and medieval civilizations from earliest times to 1300. Particular emphasis will be placed upon political, economic, social, and religious developments and achievements.

**HIST 2401 History of the Early Modern World (3)** World civilization from 1300 to 1800. Special emphasis will be given to economic contact and cultural clashes among European, Asian, American, and African civilizations.

**HIST 2402 History of the Modern World (3)** A survey of modern world civilization since 1800. Special attention will be given to industrialization, democratization, imperialism, global wars, and modernization of the non-western world.

**HIST 2410 Introduction to Africana Studies (3)** Examines the rise of African world civilizations, with emphasis on the development of complex empires and the influence of African cultures in the Western Hemisphere.

#### Western World History

**HIST 4402 Ancient Greece (3)** A survey of Greek history from the pre-classical Minoan and Mycenaean civilizations, through the classical period, to the Roman conquest.

**HIST 4403 Ancient Rome (3)** A survey of Roman history from its origins to the decline of the imperial system. Particular emphasis will be placed upon the political, social, and economic developments in the Republic and the factors that led to the fall of the empire.

**HIST 4412 Era of Renaissance and Reformation (3)** The intellectual and cultural institutions of Europe during the Age of the Renaissance and the Protestant Revolt and Catholic Reformation.

**HIST 4413 Europe in the Seventeenth Century (3)** Political, social, economic, and cultural history of Europe in the seventeenth century.

**HIST 4414 The Age of the French Revolution and Napoleon (3)** The origins, development, and consequences of the French Revolution and the Napoleonic Empire in France and in the larger European world, with special reference to the broad transformation of the entire continent during the eighteenth century.

**HIST 4415 Revolutionary Europe (3)** A survey of the political, social, economic, and cultural transformation of Europe in a century of revolution, from the *ancien regime* to World War I.

**HIST 4416 Europe in Crisis: 1900-1945 (3)** Examines the political, diplomatic and strategic trends of the major European crises up to 1945: the Great War, the Great Depression, and World War II.

**HIST 4417 Intellectual History of Modern Europe (3)** Political, social, and religious ideas shaping the culture, society, and institutions of Europe.

**HIST 4418 War and Modern Society (3)** This course will explore the relationship between warfare and society from the advent of gunpowder weaponry to the 21st century.

**HIST 4422 England to 1689 (3)** The history and institutions of England from Anglo-Saxon times to the Glorious Revolution.

**HIST 4423 Modern Britain and the Empire (3)** Political, economic, and social development of modern England and the empire.

**HIST 4431 Modern Germany and the Nazi Experience (3)** A political, social, economic and cultural history of Germany from World War I through the post-World War II era with emphasis on the Third Reich.

**HIST 4432 The Holocaust (3)** Examines the Holocaust within the context of historical anti-Semitism and the chronology of Nazism's rise, World War II, the Final Solution, and the legacy.

**HIST 4441 The Rise of Imperial Russia (3)** This course will explore the history of Imperial Russia from Kievan Rus' through the end of the reign of Tsar Alexander II.

**HIST 4442 Modern Russia and the Soviet Union (3)** Russia and its place in world affairs since the eighteenth century.

**HIST 4451 Imperial Spain 1469-1714 (3)** The rise of the Spanish Empire in the Old World and the New from the fifteenth through the seventeenth centuries.

**HIST 4452 Modern Latin America (3)** Latin American history from the independence movement of the eighteenth century to the present.

**HIST 4453 History of Mexico (3)** A survey of the political, social, economic and cultural history of Mexico from pre-Columbian civilizations to the present.

#### Non-Western World History

**HIST 4461 The Rise of Chinese Civilization (3)** The origins, development, and transformation of Chinese civilization from ancient to modern times, including China's impact on peripheral nations and the modifications of traditional culture by Western influences until 1949.

**HIST 4462 The Rise of Japanese Civilization (3)** The origins, development, and transformation of Japanese civilization from ancient to modern times, emphasizing the unique qualities of Japanese history and culture and the role of Japanese leadership in modern East Asia.

**HIST 4463 Communist China (3)** Communist China since World War II, including the expulsion of the Nationalist government from the mainland, the consolidation of communist power and authority, internal upheavals such as the "Hundred Flowers," the Great Leap Forward, and the Cultural Revolution and Communist China's foreign policies and role in international affairs.

**HIST 4471 The African Diaspora (3)** Examines the global dispersal of Africans with particular emphasis on the rise and abolition of the Trans-Saharan and Atlantic slave trades.

**HIST 4472 African History (3)** Examines the African continent, its development and its place in world affairs since prehistory, from complex societies to independence in the twentieth century.

**HIST 4473 History of South Africa (3)** This course is a survey of South African History from the pre-1800's to the present.

**HIST 4481 Traditional Middle East (3)** The history of West Asia and the Eastern Mediterranean from Muhammad to Napoleon, with special emphasis on the rise and expansion of Islam, including its principles, the Arab and Persian empires, and the impact of the Mongols, the Turks, and the Crusades.

**HIST 4482 The Modern Middle East (3)** The course will focus on western Asia, north Africa, and the Eastern Mediterranean region since the Napoleonic invasion of Egypt, with special emphasis on the decline of the Ottoman Empire, the impact of the great powers, and the effects of nationalism, oil, and the religious dynamic.

**HIST 4491 Special Projects in World History (1-6)** Study, interpretation, and discussion of special topics and problems in World history.

### Integrative Studies General

**IGEN 4231 Myth, Memory and Realities\* (3)** Examines a selected topic in American or World history and literature to understand how interpretations of the past have been constructed to explain the present. \*Not available for graduate credit.

## Anthropology

### ANTHROPOLOGY

#### Minor for a Bachelor's Degree

UCM does not confer teacher certification for this minor. (424)

The graduate with a Bachelor's degree that includes a Minor in Anthropology will use the knowledge and skills obtained in his/her minor program to:

- Judge the basis of anthropological knowledge through the study of primates, fossils, artifacts, tools, customs, beliefs, and languages.
- Apply the concept of cultural adaptation to the environment, from prehistory into the diverse present.
- Recognize that all cultures meet the common goals of provision, protection, interaction and reproduction through different strategies.
- Convey multicultural lessons and mutual respect through the comparison of cultures.
- Understand that interacting with other cultures contributes to life-long learning.

Sem. Hours

<b>MINOR REQUIREMENTS</b> . . . . .	<b>20</b>
ANTH 1810 Human Prehistory . . . . .	3
ANTH 1820 Cultural Anthropology . . . . .	3
Electives from the following . . . . .	14
ENGL 4110 Linguistics . . . . .	3
Elective in sociology . . . . .	3
Electives in Anthropology . . . . .	8-14

**GENERAL EDUCATION REQUIREMENTS** (pages 34-43) In the minor, ANTH 1810 fulfills 3 s.h. of Div. II D; ANTH 1820 fulfills 3 s.h. of Div. II B.

**ANTH 1810 Human Prehistory (3)** Surveys the empirical evidence of fossils and artifacts for human biological and cultural origins from circa five million to five thousand years ago.

**ANTH 1820 Cultural Anthropology (3)** Surveys the origin, development, and varieties of contemporary cultures, including non-Western; comparisons of technology, customs, groups, and institutions between and among these cultures; implications of earlier cultures for modern society.

**ANTH 2820 Archaeology (3)** An examination of societies that are now extinct and an introduction to the field and laboratory methods used to reconstruct their cultures.

**ANTH 2845 Physical Anthropology (3)** The biology of the human organism; primatology, primate paleontology, and fossil hominids; the role of genetics in evolutionary theory; basic ideas in population genetics, and racial variation.

**ANTH 3801 Applied Anthropology (3)** Applications of the four major subfields of anthropology: cultural anthropology, physical anthropology, archaeology, and linguistics. Prerequisite: ANTH 1810 or ANTH 1820 or consent of instructor.

**ANTH 3850 Peoples of the World (3)** An examination of more than twenty cultures throughout the world.

**ANTH 4815 Special Projects in Anthropology (1-6)** Study, interpretation, and discussion of special topics and problems in anthropology. *May be repeated for a maximum of 6 semester hours.* Prerequisite: consent of instructor.

**ANTH 4820 Sexual Dynamics and Culture (3)** Explores cultural factors influencing roles of women and men in a variety of cultures, from small foraging bands to large industrialized states. Topics include cultural influences on sexual equality, sexual hierarchy, heterosexuality, and homosexuality.

**ANTH 4830 Archaeological Field Research (3)** Field experience in which students learn archaeological methods of surveying, recording and excavation, as well as how and why we investigate and preserve sites.

**ANTH 4840 Historical Archaeology (3)** The study of artifacts, architecture, and other material culture to address anthropological topics, such as race, gender, and class, within historic North America.

**ANTH 4850 The North American Indian (3)** The anthropological study of the native peoples of America north of Mexico; the physical types of American Indian populations; the comparative study of native American languages, North American prehistory, and North American ethnology.

**ANTH 4870 Comparative Cultures (3)** Compares various aspects of cultures in selected societies and helps students to collect and analyze data on cultural patterns in their own and other societies.

**ANTH 4894 Cross-Cultural Aspects of Aging (3)** A wide variety of societies, from small hunting and gathering to large industrialized societies, is examined in an attempt to explore probable causes and effects of different patterns of aging.

## Social Science

In the area of Social Sciences, the second digit in the course number stands for the following: 0-Social Science Education, 2-Geography, 3-American History, 4-World History, 5-Political Science, 8-Anthropology.

### Department of History and Anthropology

#### Statement of Policy

A course with a grade lower than a "C" will not be allowed to fulfill a major or minor requirement in any program offered by the Department of History and Anthropology.

To be recommended for student teaching by the Department of History and Anthropology, a student with a major or minor in social studies must achieve at least a 2.50 GPA in all social science courses taken at UCM.

#### Accreditation

The Social Studies program is accredited by the National Council for the Social Studies located at 8555 16th Street, Silver Springs, MD 20910; phone 301-588-1800.

## SOCIAL STUDIES

### Functional Major, Bachelor of Science in Education Degree

Certification to teach social studies in grades 9-12.

(41-416)

The graduate with a Bachelor of Science in Education degree with a functional major in Social Studies will use the knowledge and skills obtained in the program to:

- Explain the methodologies and themes of the disciplines comprising the social sciences.
- Write competency-based objectives that state the learning and performance outcomes expected of secondary school students.
- Apply content learned in university social science courses to develop social studies lessons based upon NCSS (National Council for the Social Studies) themes for secondary school students.
- Plan, develop, and write a complete social studies teaching unit for social science courses taught at the secondary school level.
- Demonstrate through the use of questioning strategies and learning activities the ability to teach higher order thinking skills.
- Present controversial issues to secondary school students so that different points of view are properly represented and fairly evaluated.

	Sem. Hours
<b>FUNCTIONAL MAJOR REQUIREMENTS</b> . . . . .	<b>60</b>
SOSC 3010 Writing in the Social Sciences . . . . .	3
SOSC 4050 The Social Studies . . . . .	3
HIST 1350 History of the U. S. to 1877 . . . . .	3
HIST 1351 History of the U. S. from 1877 . . . . .	3
POLS 1510 American Government . . . . .	3
POLS 2511 State Government . . . . .	3
GEOG 2212 World Geography . . . . .	3
ECON 1010 Principles of Macroeconomics . . . . .	3
SOC 1800 General Sociology . . . . .	3
Electives from the following . . . . .	6
HIST 2400 History of the Early World . . . . .	3
HIST 2401 History of the Early Modern World . . . . .	3
or	
HIST 2401 History of the Early Modern World . . . . .	3
HIST 2402 History of the Modern World . . . . .	3
Upper-level elective in SOC or ANTH . . . . .	3
Upper-level electives in American history . . . . .	6
Upper-level elective in world history . . . . .	6
Upper-level elective in geography . . . . .	3
Upper-level electives in at least two of the following:	
GEOG, HIST, POLS, SOC, ANTH, or ECON . . . . .	9
The 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 History and Anthropology Department and on file with the Academic Advisers.	
<b>MINOR NOT REQUIRED</b>	
<b>GENERAL EDUCATION REQUIREMENTS</b> (pages 34-43) In the functional major, HIST 1350, ECON 1010, SOC 1800 fulfill 9 s.h. of Div. II B; in the professional education requirements, ICAP 4468 fulfills 3 s.h. of Div. IV . . . . .	
HIST 1350 Div. II B or	36
HIST 1351 Div. II B (required) . . . . .	3
PSY 4230 Psy. of Adolescence . . . . .	3
Secondary Education students will be allowed to substitute PSY 4230 to fulfill 3 s.h. in Div. III and must have one course in a physical or earth science and one in a biological science in Div. II A. If elected, HIST 2402 fulfills 3 s.h. of Div. II D.	
<b>PROFESSIONAL EDUCATION REQUIREMENTS</b> (page 115) . . . . .	<b>28</b>
PSY 4200 Psy. of Except. Children (required) . . . . .	2
<b>MINIMUM TOTAL</b> . . . . .	<b>124</b>

**SOCIAL STUDIES**

**Minor, Bachelor of Science in Education Degree**  
 Certification to teach social studies in grades 5-9 is available only with a major in middle school-junior high school. May fulfill an area of concentration requirement for elementary education functional majors. (418)

	Sem. Hours
<b>MINOR REQUIREMENTS</b> . . . . .	<b>24-27</b>
HIST 1350 History of the U. S. to 1877 . . . . .	3
HIST 1351 History of the U. S. from 1877 . . . . .	3
HIST 2402 History of the Modern World . . . . .	3
POLS 1510 American Government . . . . .	3
GEOG 2212 World Geography, 3 or	
GEOG 3201 The Cultural Landscape, 3 . . . . .	3
ECON 1010 Principles of Macroeconomics, 3 or	
ECON 1011 Principles of Microeconomics, 3 . . . . .	3
Upper-level elective in American history . . . . .	2-3
Upper-level elective in world history . . . . .	2-3
2000-4000 level elective in GEOG, POLS, SOC, or ANTH 2-3	

**GENERAL EDUCATION REQUIREMENTS** (pages 34-43) In the minor, HIST 1350, POLS 1510 fulfill 6 s.h. of Div. II B; if elected, ECON 1010 or GEOG 2212 fulfills 3 s.h. of Div. II B; HIST 2402 fulfills 3 s.h. of Div. II D.

**Social Science Education**

**SOSC 3010 Writing in the Social Sciences (3)** Practicum in writing in the social sciences. Prerequisite: completion of General Education Div. I A.

**SOSC 4020 Secondary Field Experience II\* (1)** Experiences in the secondary school classroom that provide the teacher candidate more advanced involvement in the teaching-learning process. Prerequisites: admission to Teacher Education Program; should be taken concurrently with SOSC 4074 during the Professional Semester. \*Not available for graduate credit.

**SOSC 4050 The Social Studies\* (3)** The "structures" of the disciplines and practice in redesigning university course work for high school lessons. \*Not available for graduate credit.

**SOSC 4074 Methods of Teaching Social Studies\* (2)** Prerequisites: admission to Teacher Education Program; double majors must take a methods course for each major; methods should be taken concurrently with SOSC 4020 during the Professional Semester. \*Not available for graduate credit.

**Africana Studies**

**AFRICANA STUDIES**

<b>Minor for a Bachelor's Degree</b>		Sem. Hours
(323)		
<b>MINOR REQUIREMENTS</b> . . . . .		<b>21-22</b>
HIST 2410 Introduction to Africana Studies . . . . .	3	
AE 1450 Valuing Differences . . . . .	1	
*ISP 4000 Study Abroad, 3 or		
**HIST 4351 Special Projects in American History, 3 or		
#ENGL 4990 Special Projects in English, 3 . . . . .	3	

**Africana Studies**

Select 11-12 credit hours from Area A or Area B as a field of concentration. Select 2-3 credit hours from the Area not chosen for concentration for a total of 14-15 credit hours.

**Africana Studies Area A**

<b>Literary, Geographical, Political and Historical Development</b>		
MUS 1281 History and Development of Jazz . . . . .	3	
GEOG 3310 Geography of Africa . . . . .	3	
HIST 4309 African American in American History . . . . .	3	
HIST 4471 The African Diaspora . . . . .	3	
HIST 4472 African History . . . . .	3	
+ENGL 3990 Special Topics in English . . . . .	3	
ENGL 4680 African American Literature . . . . .	3	
POLS 3551 Race & Ethnic Politics in the U.S. . . . .	3	
POLS 4553 20th Cent. African-American Politics . . . . .	3	

**Africana Studies Area B**

<b>Gender, Culture and Social Issues</b>		
SOC 1800 General Sociology . . . . .	3	
Electives from the following . . . . .	9	
+#A&S 1244 Special Topics . . . . .	3	
WS 2000 Race, Class and Gender . . . . .	3	
REL 2410 Exploring Religions of Africa, the Caribbean, and African-America . . . . .	3	
SOC 1830 Social Problems . . . . .	3	
SOC 3825 Race and Ethnic Relations . . . . .	3	
SOC 3845 Social Inequality . . . . .	3	
SOC 4810 Urban Sociology . . . . .	3	

\*University of Ghana  
 \*\*Research & Writing Course in African/African American History  
 #Research & Writing Course in African American Literature  
 +Research & Writing Course in Survey of Twentieth Century African American Literature  
 +#Elementary Akan

**Women’s Studies**

**WOMEN’S STUDIES**

Minor for a Bachelor’s Degree

UCM does not confer teacher certification for this minor (471)

		Sem. Hours
<b>MINOR REQUIREMENTS</b> . . . . .		<b>21-22</b>
WS	1050 Introduction to Women’s Studies . . . . .	3
WS	4910 Spec. Proj. in Women’s Studies . . . . .	3
Electives from the following . . . . .		9-10
AE	1450 Valuing Differences: Discovering Common Ground . . . . .	1
ANTH	4820 Sexual Dynamics & Culture . . . . .	3
CFD	1010 Individual & Family Relationships . . . . .	3
CJ	4403 Sexual Assault & the Criminal Justice System . . . . .	3
*COMM	4285 Women and Minorities in Media . . . . .	3
*COMM	4335 Gender Communications . . . . .	3
ENGL	2270 Fict. by Women Around the World . . . . .	3
ENGL	4560 British Women Writers . . . . .	3
ENGL	4660 Women Writers of the United States . . . . .	3
HIST	4310 Women in America . . . . .	3
HIST	4327 African American Women, Gender & Girlhood . . . . .	3
NUR	2020 Health: Women’s Perspective . . . . .	2
NUR	4030 Human Sexuality . . . . .	2
*NUR	4210 Advanced Concepts of Nursing & Family Health . . . . .	3
PSY	4320 Psychology of Women . . . . .	2
REL	2510 Gender & Religions . . . . .	3
SOC	4855 Sociology of Gender . . . . .	3
SOC	4865 Family Diversity . . . . .	3

\*\*Electives from the above list or as approved by the Women’s Studies Coordinator 6  
 \*Course has prerequisite(s) not listed in the program.  
 \*\*Can include Special Projects courses in other programs.

**WS 1050 Introduction to Women’s Studies (3)** Provides an overview of the interdisciplinary nature of the women’s studies program. Focuses upon social, psychological, economic, political, cultural, religious, and historical aspects of women’s roles in the United States.

**WS 2000 Race, Class, and Gender (3)** An exploration of the interrelations between gender, class, and race historically and cross-culturally. These interrelations will be explored using a multidisciplinary approach and a variety of kinds of materials, including ethnography, literature, life histories, and law.

**WS 4910 Special Projects in Women’s Studies (1-9)** Extensive reading and discussion of selected topics to integrate the various courses in the women’s studies program at the undergraduate and graduate levels.

**Modern Languages**

In the Department of Modern Languages, the second digit in the course number stands for the following: 0-General, 2-French, 3-German, 6-Spanish, 7-Chinese.

**Department of Modern Languages  
Statement of Policy**

A placement examination determines the level of a student’s initial enrollment in elementary and intermediate language courses.

If a student enrolls in FREN 1202 or GER 1302 or SPAN 1602 and completes the class with a grade of “C” or higher, the student may be eligible for validated credit for FREN 1201 or GER 1301 or SPAN 1601. If a student enrolls in FREN 2201 or GER 1303 or SPAN 2601 or a higher level class and completes the class with a grade of “C” or higher, the student may be eligible for validated credit for FREN 1201 and FREN 1202 or GER 1301 and GER 1302 or SPAN 1601 and SPAN 1602. Other restrictions may apply. For further information contact the Chair of the Department of Modern Languages.

**Requirements for Certification in Modern Languages**

For certification as a modern language teacher in Missouri, grades K-12, 30 semester hours are required in the language taught, or 27 hours in the language taught plus two or more high school units in that language.

Certification for grades K-9 only requires 21 semester hours in the language taught, or 18 semester hours in the language taught plus two or more high school units in that language.

**FRENCH**

Major, Bachelor of Arts Degree (42-318)

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

- Use French orally and in writing in a variety of informal and formal situations
- Comprehend a variety of authentic materials in French for personal and/or professional use
- Demonstrate knowledge of linguistic elements, pronunciation and intonation, grammar, forms of discourse, and vocabulary to satisfy a variety of everyday tasks
- Engage in socially appropriate forms of communication
- Demonstrate an understanding of the target cultures in their geographical and historical contexts, including perspectives, practices, and products.

		Sem. Hours
<b>MAJOR REQUIREMENTS</b> . . . . .		<b>42</b>

FREN	1201	Elementary French I . . . . .	3
FREN	1202	Elementary French II. . . . .	3
FREN	2201	Intermediate French I . . . . .	3
FREN	2202	Intermediate French II . . . . .	3
FREN	3223	French Composition . . . . .	3
FREN	3243	French Conversation . . . . .	3
FREN	3261	French Civilization & Lit. I. . . . .	3
FREN	3262	French Civilization & Lit. II . . . . .	3
FREN	4223	Advanced French Composition . . . . .	3
FREN	4243	Advanced French Conversation. . . . .	3
FREN	4263	French Phonetics . . . . .	3
FREN	4265	The Contemporary French-Speaking World 3	3

Electives in French at 3000 or 4000 level (Students must take 12 hours at 3000 or 4000 level in their major) . . . . . 6

<b>MINOR REQUIREMENTS</b> . . . . .	<b>18-25</b>
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**GENERAL EDUCATION REQUIREMENTS** (pages 34-43) The major fulfills 3 s.h. of Div. II C . . . . . 45

**MODERN LANGUAGE REQUIREMENT** (fulfilled by major)

<b>FREE ELECTIVES</b> . . . . .	<b>12-19</b>
<b>MINIMUM TOTAL</b> . . . . .	<b>124</b>

**FRENCH**

**Major, Bachelor of Science Degree**  
(43-319)

The graduate with a Bachelor of Science in French will use the knowledge and skills in the program to:

- Use French orally and in writing in a variety of informal and formal situations
- Comprehend a variety of authentic materials in French for personal and/or professional use
- Demonstrate knowledge of linguistic elements, pronunciation and intonation, grammar, forms of discourse, and vocabulary to satisfy a variety of everyday tasks
- Engage in socially appropriate forms of communication
- Demonstrate an understanding of the target cultures in their geographical and historical contexts, including perspectives, practices, and products.

	Sem. Hours
<b>MAJOR REQUIREMENTS</b> . . . . .	<b>42</b>
FREN 1201 Elementary French I . . . . .	3
FREN 1202 Elementary French II . . . . .	3
FREN 2201 Intermediate French I . . . . .	3
FREN 2202 Intermediate French II . . . . .	3
FREN 3223 French Composition . . . . .	3
FREN 3243 French Conversation . . . . .	3
FREN 3261 French Civilization & Lit. I . . . . .	3
FREN 3262 French Civilization & Lit. II . . . . .	3
FREN 4223 Advanced French Composition . . . . .	3
FREN 4243 Advanced French Conversation . . . . .	3
FREN 4263 French Phonetics . . . . .	3
FREN 4265 The Contemporary French-Speaking World 3	3
Electives in French at 3000 or 4000 level (Students must take 12 hours at 3000 or 4000 level in their major) . . . . .	6
<b>MINOR REQUIREMENTS</b> . . . . .	<b>18-25</b>
<b>GENERAL EDUCATION REQUIREMENTS</b> (pages 34-43) The major fulfills 3 s.h. of Div. II C . . . . .	<b>45</b>
<b>FREE ELECTIVES</b> . . . . .	<b>12-19</b>
<b>MINIMUM TOTAL</b> . . . . .	<b>124</b>

**FRENCH**

**Major, Bachelor of Science in Education Degree**  
Certification to teach French in grades K-12  
(41-334)

The graduate with a Bachelor of Science in Education in French will use the knowledge and skills in the program to:

- Use French orally and in writing in a variety of informal and formal situations
- Comprehend a variety of authentic materials in French for personal and/or professional use
- Demonstrate knowledge of linguistic elements, pronunciation and intonation, grammar, forms of discourse, and vocabulary to satisfy a variety of everyday tasks
- Engage in socially appropriate forms of communication
- Demonstrate an understanding of the target cultures in their geographical and historical contexts, including perspectives, practices, and products.
- Teach essential elements of French at elementary and secondary school levels.

	Sem. Hours
<b>MAJOR REQUIREMENTS</b> . . . . .	<b>42</b>
FREN 1201 Elementary French I . . . . .	3
FREN 1202 Elementary French II . . . . .	3
FREN 2201 Intermediate French I . . . . .	3
FREN 2202 Intermediate French II . . . . .	3
FREN 3223 French Composition . . . . .	3
FREN 3243 French Conversation . . . . .	3
FREN 3261 French Civilization & Lit. I . . . . .	3
FREN 3262 French Civilization & Lit. II . . . . .	3
FREN 4223 Advanced French Composition . . . . .	3

FREN 4243	Advanced French Conversation . . . . .	3
FREN 4263	French Phonetics . . . . .	3
FREN 4265	The Contemporary French-Speaking World 3	3
Electives in French at 3000 or 4000 level (Students must take 12 hours at 3000 or 4000 level in their major) . . . . .		6

**MINOR REQUIREMENTS** . . . . . **18-25**

**GENERAL EDUCATION REQUIREMENTS** (pages 34-43) The major fulfills 3 s.h. of Div. II C; in the professional education requirements, ICAP 4468 fulfills 3 s.h. of Div. IV B . . . . . 42  
Secondary Education students must have one course in a physical or earth science and one in a biological science in Div. II A.  
HIST 1350 Div. II B or  
HIST 1351 Div. II B (required) . . . . . 3  
POLS 1510 Div. II B (required) . . . . . 3  
PSY 4230 Psy. of Adolescence . . . . . 3  
Secondary Education students will be allowed to substitute PSY 4230 to fulfill 3 s.h. in Div. II B.

**PROFESSIONAL EDUCATION REQUIREMENTS** (page 115) . . . . . **28**

**MINIMUM TOTAL** . . . . . **130**

**FRENCH**

**Minor for a Bachelor's Degree**

Certification to teach French in grades K-9 is available only on a Bachelor of Science in Education Degree with an elementary education functional major 1-6 or middle school-junior high major. (2013)

	Sem. Hours
<b>MINOR REQUIREMENTS</b> . . . . .	<b>27</b>

FREN 1201	Elementary French I . . . . .	3
FREN 1202	Elementary French II . . . . .	3
FREN 2201	Intermediate French I . . . . .	3
FREN 2202	Intermediate French II . . . . .	3
FREN 3223	French Composition . . . . .	3
FREN 3243	French Conversation . . . . .	3
FREN 4265	The Contemporary French-Speaking World 3	3
FREN 3261	French Civilization & Lit. I, 3 or	3
FREN 3262	French Civilization & Lit. II, 3 . . . . .	3
Elective in French at 3000 or 4000 level . . . . .		3

**GENERAL EDUCATION REQUIREMENTS** (pages 34-43) In the minor, 3 s.h. of Div. II C are fulfilled

**GERMAN**

**Major, Bachelor of Arts Degree**  
(42-321)

This program has been placed in abeyance. See the Department Chair for more information.

**GERMAN**

**Major, Bachelor of Science Degree**  
(43-322)

This program has been placed in abeyance. See the Department Chair for more information.

**GERMAN**

**Major, Bachelor of Science in Education Degree**  
Certification to teach German in grades K-12  
(41-335)

This program has been placed in abeyance. See the Department Chair for more information.

**GERMAN**

**Minor, Bachelor of Science in Education Degree**  
Certification to teach German in grades K-9 is available only on a Bachelor of Science in Education Degree with an elementary education functional major 1-6 or middle school-junior high major. (333)

		Sem. Hours
<b>MINOR REQUIREMENTS</b> .....		21
GER 1303	Intermediate German .....	3
GER 1304	German Readings .....	3
GER 2301	Advanced German Readings .....	3
GER 2323	German Conversation & Comp. ....	3
GER 2362	German Civilization .....	3
Electives in 2000 level or higher German courses .....		6
<b>GENERAL EDUCATION REQUIREMENTS</b> (pages 34-43) In the minor, 3 s.h. of Div. II C are fulfilled		

**GERMAN**

**Minor for a Bachelor's Degree**

Except for a Bachelor of Science in Education Degree (2014)

		Sem. Hours
<b>MINOR REQUIREMENTS</b> .....		21
GER 1303	Intermediate German .....	3
GER 1304	German Readings .....	3
GER 2301	Advanced German Readings .....	3
GER 2323	German Conversation & Comp. ....	3
GER 2362	German Civilization .....	3
GER 3371	Survey of German Lit. I .....	3
GER 3372	Survey of German Lit. II .....	3

**SPANISH**

**Major, Bachelor of Arts Degree**

(42-338)

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

- Express himself or herself orally and in writing in a variety of informal and formal situations in Spanish.
- Comprehend a variety of authentic materials in Spanish for personal and/or professional use.
- Demonstrate knowledge of linguistic elements, pronunciation and intonation, grammar, forms of discourse, and vocabulary to satisfy a variety of everyday tasks.
- Engage in socially appropriate forms of communication
- Demonstrate an understanding of the target cultures in their geographical and historical contexts, including perspectives, practices, and products.

		Sem. Hours
<b>MAJOR REQUIREMENTS</b> .....		42
SPAN 1601	Elementary Spanish I .....	3
SPAN 1602	Elementary Spanish II .....	3
SPAN 2601	Intermediate Spanish I .....	3
SPAN 2602	Intermediate Spanish II .....	3
SPAN 2603	Spanish Conversation I .....	3
SPAN 3603	Spanish Conversation II .....	3
SPAN 3623	Spanish Composition .....	3
SPAN 3661	Spanish Civilization & Literature .....	3
SPAN 3662	Spanish American Civilization & Literature	3
SPAN 4603	Advanced Readings & Oral Expression ...	3
SPAN 4623	Advanced Spanish Composition .....	3
Electives from the following .....		9
SPAN 4650	Introduction to Spanish for Business ...	3
SPAN 4665	Culture and Issues in the Contemporary Spanish-Speaking World	3
SPAN 4671	Cinema of the Spanish-Speaking World	3
SPAN 4680	Twentieth Century Literature of the Spanish-Speaking World .....	3
<b>MINOR REQUIREMENTS</b> .....		18-25
<b>GENERAL EDUCATION REQUIREMENTS</b> (pages 34-43) The major fulfills 3 s.h. of Div. II C .....		
		45
<b>MODERN LANGUAGE REQUIREMENT</b> (fulfilled by major)		
<b>FREE ELECTIVES</b> .....		12-19
<b>MINIMUM TOTAL</b> .....		124

**SPANISH**

**Major, Bachelor of Science Degree**

(43-339)

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

- Express himself or herself orally and in writing in a variety of informal and formal situations in Spanish
- Comprehend a variety of authentic materials in Spanish for personal and/or professional use
- Demonstrate knowledge of linguistic elements, pronunciation and intonation, grammar, forms of discourse, and vocabulary to satisfy a variety of everyday tasks
- Engage in socially appropriate forms of communication
- Demonstrate an understanding of the target cultures in their geographical and historical contexts, including perspectives, practices, and products.

		Sem. Hours
<b>MAJOR REQUIREMENTS</b> .....		42
SPAN 1601	Elementary Spanish I .....	3
SPAN 1602	Elementary Spanish II .....	3
SPAN 2601	Intermediate Spanish I .....	3
SPAN 2602	Intermediate Spanish II .....	3
SPAN 2603	Spanish Conversation I .....	3
SPAN 3603	Spanish Conversation II .....	3
SPAN 3623	Spanish Composition .....	3
SPAN 3661	Spanish Civilization & Literature .....	3
SPAN 3662	Spanish American Civilization & Literature	3
SPAN 4603	Advanced Readings & Oral Expression ...	3
SPAN 4623	Adv. Spanish Composition .....	3
Electives from the following .....		9
SPAN 4650	Introduction to Spanish for Business ...	3
SPAN 4665	Culture & Issues in the Contemporary Spanish-Speaking World	3
SPAN 4671	Cinema of the Spanish-Speaking World	3
SPAN 4680	Twentieth Century Literature of the Spanish-Speaking World .....	3
<b>MINOR REQUIREMENTS</b> .....		18-25
<b>GENERAL EDUCATION REQUIREMENTS</b> (pages 34-43) The major fulfills 3 s.h. of Div. II C .....		
		45
<b>FREE ELECTIVES</b> .....		12-19
<b>MINIMUM TOTAL</b> .....		124

**SPANISH**

**Major, Bachelor of Science in Education Degree**

Certification to teach Spanish in grades K-12

(41-337)

The graduate with a Bachelor of Science in Education in Spanish will use the knowledge and skills in the program to:

- Express himself or herself orally and in writing in a variety of informal and formal situations in Spanish
- Comprehend a variety of authentic materials in Spanish for personal and/or professional use
- Demonstrate knowledge of linguistic elements, pronunciation and intonation, grammar, forms of discourse, and vocabulary to satisfy a variety of everyday tasks
- Engage in socially appropriate forms of communication
- Demonstrate an understanding of the target cultures in his/her geographical and historical contexts, including perspectives, practices, and products.
- Teach essential elements of Spanish at elementary and secondary school levels.

		Sem. Hours
<b>MAJOR REQUIREMENTS</b> .....		42
SPAN 1601	Elementary Spanish I .....	3
SPAN 1602	Elementary Spanish II .....	3
SPAN 2601	Intermediate Spanish I .....	3
SPAN 2602	Intermediate Spanish II .....	3
SPAN 2603	Spanish Conversation I .....	3
SPAN 3603	Spanish Conversation II .....	3
SPAN 3623	Spanish Composition .....	3

SPAN	3661	Spanish Civilization & Literature . . . . .	3
SPAN	3662	Spanish American Civilization & Literature . . . . .	3
SPAN	4603	Advanced Readings and Oral Expression . . . . .	3
SPAN	4623	Adv. Spanish Composition . . . . .	3
Electives from the following . . . . . 9			
SPAN	4650	Introduction to Spanish for Business . . . . .	3
SPAN	4665	Culture & Issues in the Contemporary Spanish-Speaking World 3	
SPAN	4671	Cinema of the Spanish-Speaking World 3	
SPAN	4680	Twentieth Century Literature of the Spanish-Speaking World . . . . .	3

**MINOR REQUIREMENTS . . . . . 18-25**

**GENERAL EDUCATION REQUIREMENTS (pages 34-43)** (The major fulfills 3 s.h. of Div. II C; in the professional education requirements, ICAP 4468 fulfills 3 s.h. of Div. IV B) . . . . . **42**

Secondary Education students must have one course in a physical or earth science and one in a biological science in Div. II A.

HIST	1350	Div. II B or	
HIST	1351	Div. II B (required) . . . . .	3
POLS	1510	Div. II B (required) . . . . .	3
PSY	4230	Psy. of Adolescence . . . . .	3

Secondary Education students will be allowed to substitute PSY 4230 to fulfill 3 s.h. in Div. II B.

**PROFESSIONAL EDUCATION REQUIREMENTS (page 115) . . . . . 28**

**MINIMUM TOTAL . . . . . 130**

**SPANISH**

**Minor for a Bachelor's Degree**

Certification to teach Spanish in grades K-9 is available only on a Bachelor of Science in Education Degree with an elementary education functional major 1-6 or middle school-junior high major (2015)

Sem. Hours

<b>MINOR REQUIREMENTS . . . . . 27</b>			
SPAN	1601	Elementary Spanish I . . . . .	3
SPAN	1602	Elementary Spanish II . . . . .	3
SPAN	2601	Intermediate Spanish I . . . . .	3
SPAN	2602	Intermediate Spanish II . . . . .	3
SPAN	2603	Spanish Conversation I . . . . .	3
SPAN	3603	Spanish Conversation II . . . . .	3
SPAN	3623	Spanish Composition . . . . .	3
SPAN	3661	Spanish Civilization & Literature, 3 or	
SPAN	3662	Spanish American Civ. & Lit., 3 . . . . .	3
Elective from the following . . . . . 3			
SPAN	4603	Advanced Readings & Oral Expressions 3	
SPAN	4623	Advanced Spanish Composition . . . . .	3
SPAN	4650	Introduction to Spanish for Business . . . . .	3
SPAN	4665	Culture & Issues in the Contemporary Spanish-Speaking World 3	
SPAN	4671	Cinema of the Spanish-Speaking World 3	
SPAN	4680	Twentieth Century Literature of the Spanish-Speaking World . . . . .	3

**GENERAL EDUCATION REQUIREMENTS (pages 34-43)** In the minor, 3 s.h. of Div. II C are fulfilled

**WORLD LANGUAGE**

**Minor for a Bachelor's Degree**

(252)

Sem. Hours

<b>MINOR REQUIREMENTS . . . . . 27</b>			
Students must take courses in 3 different languages.			
Two courses in one language			
(CHIN, FREN, GER, SPAN, ML) . . . . . 6			
Two courses in a second language			
(CHIN, FREN, GER, SPAN, ML) . . . . . 6			
Five courses in a third language, at least one cours at the upper-division level (FREN, GER, SPAN, ML) . . . . . 15			
Non-native speakers of English may count 3000 or 4000 level English courses as one of their three languages.			

Native speakers of languages offered in the Department of Modern Languages must substitute 3000-level English courses in lieu of courses in their language.

**General**

- ML 1040 Special Projects in Modern Languages (1-3)** Small-group instruction at the introductory level.
- ML 2010 Foreign Studies in Language (1-6)** Credit granted for study in a departmentally-approved program in a foreign country. *May be repeated for a maximum of 12 semester hours.*
- ML 4010 Foreign Studies in Language (French) (German) (Spanish) (1-6)** Credit granted for study in a UCM approved program in a foreign country. Freshmen and sophomores permitted to enroll with consent of the Chair of the Department of Modern Languages. Available for graduate credit upon approval of student's graduate program adviser. *May be repeated for a maximum of 12 semester hours.*
- ML 4020 Secondary Field Experience II\* (1)** Experiences in the secondary school classroom that provide the teacher candidate more advanced involvement in the teaching-learning process. Prerequisites: admission to Teacher Education Program; should be taken concurrently with ML 4054 during the Professional Semester. \*Not available for graduate credit.
- ML 4040 Special Projects in Foreign Language (1-3)** Individualized and group instruction in foreign and modern languages. *May be repeated for a maximum of 6 semester hours.* Prerequisite: consent of department chair.
- ML 4054 Methods of Teaching Foreign Languages\* (2)** Prerequisites: admission to Teacher Education Program; double majors must take a methods course for each major; methods should be taken concurrently with ML 4020 during the Professional Semester. \*Not available for graduate credit.

**French**

- FREN 1201 Elementary French I (3)** Fundamental principles of French pronunciation, the building of basic vocabulary of words and expressions, studies in structure, oral work, and reading selections. Not open to native speakers or students who have had three years of high school French without the permission of the department chair.
- FREN 1202 Elementary French II (3)** A continuation of French I. Increased attention to grammar. Not open to native speakers or students who have had four years of high school French without the permission of the department chair. Prerequisite: FREN 1201 or equivalent.
- FREN 2201 Intermediate French I (3)** Reading, conversation, vocabulary, and idiom drill. Prerequisite FREN 1202 or equivalent.
- FREN 2202 Intermediate French II (3)** Continuing development of the ability to use the language on the intermediate level. Prerequisite: FREN 2201 or equivalent.
- FREN 2290 Special Topics in French (1-3)** Individual or group work by selected students in carefully chosen fields for intermediate level study. *May be repeated for a maximum of 6 semester hours.* Prerequisites: 6 semester hours of French and consent of the department chair.
- FREN 3223 French Composition (3)** Review of grammar. Intensive practice in composition with increased attention to stylistics. Prerequisite: FREN 2202 or equivalent.
- FREN 3243 French Conversation (3)** Provides intensive drill in conversational language using culture-based materials. Prerequisite: FREN 2201.
- FREN 3261 French Civilization and Literature I (3)** From the origins to the eighteenth century. Prerequisite: FREN 2202 or equivalent.
- FREN 3262 French Civilization and Literature II (3)** From the eighteenth century to 1945. Prerequisites: FREN 2202 or equivalent.
- FREN 4223 Advanced French Composition\* (3)** Oral and written composition, review of more difficult grammatical construction and idioms. Prerequisite: FREN 3223 or equivalent. \*Not available for graduate credit.
- FREN 4243 Advanced French Conversation\* (3)** Conversational drill in everyday idiomatic French. Reading and discussion of topics chosen from current newspapers and magazines. Prerequisite: FREN 3243 or equivalent. \*Not available for graduate credit.



**FREN 4263 French Phonetics\*** (3) The sound system of the French language: analysis of problems encountered by a native English speaker in learning spoken French. Prerequisite: FREN 3243 or equivalent. \*Not available for graduate credit.

**FREN 4264 Commercial French\*** (3) French commercial terminology, stressing the difference between French and American forms and practices. Prerequisite: FREN 3223 or equivalent. \*Not available for graduate credit.

**FREN 4265 The Contemporary French-Speaking World\*** (3) An overview of contemporary France and other French-speaking nations. Prerequisites: FREN 3261 or FREN 3262, or equivalent. \*Not available for graduate credit.

**FREN 4286 French Literature of the Nineteenth Century \*** (3) Romanticism, realism, and naturalism. Analysis of texts and literary theories. Prerequisite: 6 semester hours of 3000 level French courses. \*Not available for graduate credit.

**FREN 4287 French Literature of the Twentieth Century\*** (3) Symbolism, surrealism, and existentialism in prose, poetry and theatre. Prerequisite: 6 semester hours of 3000 level French courses. \*Not available for graduate credit.

**FREN 4288 French Translation\*** (3) Commercial and technical translation from French into English and English into French. Prerequisite: 6 semester hours of 3000 level French courses. \*Not available for graduate credit.

**FREN 4289 Cinema of the French-Speaking World\*** (3) A survey of films from the French-speaking world with emphasis on the cultural contexts in which the films are produced and viewed. Prerequisites: 6 semester hours of 3000 level French courses. \*Not available for graduate credit.

**FREN 4290 Special Topics in French\*** (1-3) Individual or group work by selected students in carefully chosen fields for advanced study. *May be repeated for a maximum of 6 semester hours.* Prerequisite: 18 semester hours of French and consent of department chair. \*Not available for graduate credit.

### German

**GER 1301 Elementary German I** (3) Fundamental principles of German pronunciation, building a basic vocabulary of German words and idiomatic expressions, oral work, and reading simple selections. Not open to native speakers or students who have had three years of high school German without the permission of the department chair.

**GER 1302 Elementary German II** (3) A continuation of German I. Increased attention to grammar. Not open to native speakers or students who have had four years of high school German without the permission of the department chair. Prerequisite: GER 1301 or equivalent.

**GER 1303 Intermediate German** (3) Reading, conversation, vocabulary, and idiom drill. Prerequisite: acceptable proficiency as demonstrated by adequate high school course work in German or by departmental approval.

**GER 1304 German Readings** (3) Continuing development of the ability to use the language on the intermediate level. Prerequisite: GER 1303 or equivalent.

**GER 2301 Advanced German Readings** (3) Selected novels, poems, and plays are read and discussed. Prerequisite: GER 1304 or equivalent.

**GER 2323 German Conversation and Composition** (3) Oral and written composition, dictation, idioms, and reviews of difficult construction and grammatical forms. Prerequisite: 9 semester hours of German.

**GER 2362 German Civilization** (3) Germany's social, cultural, and political history from its Germanic beginnings through World War II to the present. Prerequisite: GER 1304.

**GER 2390 Special Topics in German** (1-3) Individual or group work by selected students in carefully chosen fields for intermediate level study. *May be repeated for a maximum of 6 semester hours.* Prerequisites: 6 semester hours of German and consent of the department chair.

**GER 3371 Survey of German Literature I** (3) German literature and literary history from the Old High German literature to Schiller's Don Carlos (1787). Prerequisite: GER 2301.

**GER 3372 Survey of German Literature II** (3) German literature and literary history from Goethe and Schiller's classical period (1790) to modern writers, including modern East German literature. Prerequisite: GER 2301.

**GER 3381 The Classic Movement** (3) Poems of Goethe, Schiller and other selected authors. Readings and discussion. Prerequisites: GER 3371 and GER 3372.

**GER 3383 The Romantic Period** (3) Philosophers, the novel and the drama. Reading of selected works. Prerequisites: GER 3371 and GER 3372.

**GER 3385 Modern German Literature** (3) Readings and discussions of selected works of Mann, Hauptmann, Hesse, Kafka, Remarque, Zweig. Prerequisites: GER 3371 and GER 3372.

**GER 4390 Special Topics in German\*** (1-3) Individual or group work by selected students in carefully chosen fields for advanced study. *May be repeated for a maximum of 6 semester hours.* Prerequisite: 18 semester hours of German and consent of department chair. \*Not available for graduate credit.

### Spanish

**SPAN 1601 Elementary Spanish I** (3) Fundamentals of Spanish pronunciation, the building of basic vocabulary and patterns, oral work, studies in structure, and reading selections. Not open to native speakers or students who have had three years of high school Spanish without the permission of the department chair.

**SPAN 1602 Elementary Spanish II** (3) A continuation of Spanish I, with increased attention to grammar. Not open to native speakers or students who have had four years of high school Spanish without the permission of the department chair. Prerequisite: SPAN 1601 or equivalent.

**SPAN 2601 Intermediate Spanish I** (3) Development of the ability to use the language by oral-aural laboratory drills and readings. Prerequisite: SPAN 1602 or equivalent.

**SPAN 2602 Intermediate Spanish II** (3) Continuing development of the ability to use the language on the intermediate level, with more advanced grammar, laboratory work and readings. Prerequisite: SPAN 2601 or equivalent.

**SPAN 2603 Spanish Conversation I** (3) Conversational Spanish using culture-based materials emphasizing the four skills: speaking, listening, reading, and writing. Prerequisites: SPAN 2602.

**SPAN 2690 Special Topics in Spanish** (1-3) Individual or group work by selected students in carefully chosen fields for intermediate level study. *May be repeated for a maximum of 6 semester hours.* Prerequisites: 6 semester hours of Spanish and consent of the department chair.

**SPAN 3603 Spanish Conversation II** (3) Oral practice in everyday Spanish, discussion, idiomatic usage, listening comprehension, speaking. Prerequisite: SPAN 2603.

**SPAN 3623 Spanish Composition** (3) Review of grammar, oral-aural training, and special study of the subjunctive mood. Prerequisite: SPAN 2602 or equivalent.

**SPAN 3661 Spanish Civilization and Literature** (3) The social, cultural, literary, and political history of Spain. Prerequisite: SPAN 2602 or equivalent.

**SPAN 3662 Spanish American Civilization and Literature** (3) The social, cultural, literary, and political history of Spanish America. Prerequisite: SPAN 2602 or equivalent.

**SPAN 4603 Advanced Readings and Oral Expression\*** (3) Emphasis on advanced readings and oral-aural practice in Spanish. Prerequisite: SPAN 3603. \*Not available for graduate credit.

**SPAN 4623 Advanced Spanish Composition\*** (3) Oral and written composition; review of more difficult grammatical constructions and idioms. Prerequisite: SPAN 3623 or equivalent. \*Not available for graduate credit.

**SPAN 4650 Introduction to Spanish for Business\*** (3) Enhances linguistic and cultural knowledge of Spanish for business and will be conducted primarily in Spanish. Prerequisites: 6 semester hours of 3000 level Spanish courses. \*Not available for graduate credit.

**SPAN 4665 Culture and Issues in the Contemporary Spanish-Speaking World\* (3)** An exploration of contemporary political, economic and societal issues affecting Spanish-speaking cultures with emphasis on further developing language skills through discussions and written assignments. Prerequisite: SPAN 3661 or SPAN 3662. \*Not available for graduate credit.

**SPAN 4671 Cinema of the Spanish-Speaking World\* (3)** A survey of Latin American, Spanish and Latino films with emphasis on the cultural contexts in which the films are produced and viewed. Prerequisite: 6 semester hours of 3000 level Spanish courses. \*Not available for graduate credit.

**SPAN 4680 Twentieth Century Literature of the Spanish-Speaking World\* (3)** Literary texts of the 20<sup>th</sup> century from Spain and Spanish America with emphasis on developing language skills through discussions and written assignments. Prerequisite: 6 semester hours of 3000 level Spanish courses. \*Not available for graduate credit.

**SPAN 4690 Special Topics in Spanish\* (1-3)** Individual or group work by selected students in carefully chosen fields for advanced study. *May be repeated for a maximum of 6 semester hours.* Prerequisite: 18 semester hours of Spanish and consent of department chair. \*Not available for graduate credit.

**Chinese**

**CHIN 1701 Elementary Chinese I (3)** Fundamental principles of pronunciation, vocabulary and idiomatic expressions of spoken Mandarin Chinese. Not open to native speakers or advanced students without permission of department chair.

**CHIN 1702 Elementary Chinese II (3)** Continuation of CHIN 1701. Not open to native speakers or advanced students without permission of department chair. Prerequisite: CHIN 1701 or equivalent.

**CHIN 2790 Special Topics in Chinese (1-3)** Individual or group work by selected students in carefully chosen fields for intermediate level study. *May be repeated for a maximum of 6 semester hours.* Prerequisites: 6 semester hours of Chinese and consent of the department chair.

**Music**

All programs in the Department of Music have been accredited since 1947 by the National Association of Schools of Music, 11250 Roger Bacon Dr., Suite 21, Reston, VA 20190-5248, phone 703-437-0700, email info@arts-accredit.org.

In the Department of Music, the second digit in the course number stands for the following: 0-General, 1-Music Theory, 2-Music History and Literature, 3-Music Education, 4-Conducting, 5-Piano and Organ, 6-Voice, 7-String Instruments, 8-Woodwind Instruments, 9-Brass and Percussion Instruments.

**Department of Music Statement of Policy**

Successful completion of an entrance audition and a passing score on the music theory placement examination are required for admission to all degree programs in the Department of Music. Contact the department for specific requirements.

All music majors, except for the Bachelor of Arts degree, must demonstrate keyboard competency as listed in the degree programs. All students must meet the keyboard competency requirement before being admitted to special methods classes.

Credit for private lessons is based on one lesson per week for each 1-1.5 hours of credit. Upper-level credit is given only after the sophomore examination is passed. Minimum practice requirement is one hour per day for each 1-1.5 hours of credit.

All students majoring or minoring in music are required to attend a designated number of recitals and concerts given on the campus. Music majors and minors are required to enroll for pass-fail in and to complete satisfactorily the following number of semesters of MUS 1000, Recital Attendance: music majors on the Bachelor of Arts degree, six semesters; on the B.M. degree, eight semesters; on the B.M.E. degree, seven semesters; and music minors, four semesters. Deficiencies in MUS 1000 must be removed before a student may graduate.

Students are encouraged to participate in ensembles to broaden their general musical background and further develop their performance abilities and listening skills. Each degree program includes specific ensemble requirements noted under the course listing for those programs.

**MUSIC**

**Major, Bachelor of Arts Degree (42-436)**

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

- Understand the basic elements and structures of music history, theory, and performance literature.
- Understand music’s relationship to the other arts, and how the arts relate to mankind.
- Use technology in appropriate music applications.
- Communicate the intellectual (thinking), emotional, and aesthetic (valuing) qualities of music to a diverse society.
- Perform with appropriate tone, technique, and musicality in his/her primary performance medium.

Sem. Hours

<b>MAJOR REQUIREMENTS</b>	<b>37</b>
MUS 1000 Recital Attendance	0
MUS 1111 Theory I	3
MUS 1112 Theory II	3
MUS 1121 Aural Training I	1
MUS 1122 Aural Training II	1
MUS 2111 Theory III	3
MUS 2121 Aural Training III	1
MUS 2221 Intro. to Music Literature I.	2
MUS 2222 Intro. to Music Literature II	2
MUS 3211 Music History to 1800	3
MUS 3212 Music History 1800-Present	3
Major instrument or voice, 1000 level	4
Major instrument or voice, 3000 level	6
Large vocal or instrumental ensemble	2
Elective in Music	3

**MINOR REQUIREMENTS** . . . . . 18-25

**GENERAL EDUCATION REQUIREMENTS** (pages 34-43) In the major, MUS 3211 and MUS 3212 are allowed to fulfill 3 s.h. of Div. II C; the Modern Language Requirement fulfills 3 s.h. of Div. II C . . . . . 42  
 MUS 1225 Div. II D (required) . . . . . 3

**MODERN LANGUAGE REQUIREMENT** . . . . . 3-9

Refer to Bachelor's Degree Requirements section for fulfillment options.

**FREE ELECTIVES** . . . . . 11-24

**MINIMUM TOTAL** . . . . . 124

**MUSIC**

**Functional Major, B.M. Degree**  
 (44-472)

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

- Understand the basic elements and structures of music history, theory, and performance literature.
- Understand music's relationship to the other arts, and how the arts relate to mankind.
- Use technology in appropriate music applications.
- Communicate the intellectual (thinking), emotional, and aesthetic (valuing) qualities of music to a diverse society.
- Perform at the highest possible level in his/her primary performance medium.
- Articulate essential elements of music and music performance.
- Demonstrate functional piano performance skills.

Sem. Hours

**FUNCTIONAL MAJOR REQUIREMENTS** . . . . . 79-84.5

MUS 1000	Recital Attendance	0
MUS 1111	Theory I	3
MUS 1112	Theory II	3
MUS 1121	Aural Training I	1
MUS 1122	Aural Training II	1
MUS 2111	Theory III	3
MUS 2112	Theory IV	3
MUS 2121	Aural Training III	1
MUS 2122	Aural Training IV	1
MUS 4125	Form & Analysis	3
MUS 3211	Music History to 1800	3
MUS 3212	Music History 1800-Present	3
MUS 2400	Fundamentals of Conducting	2

Major instrument or voice, 1000 level . . . . . 8

Major instrument or voice, 3000 level . . . . . 10.5

Major large instrumental or vocal ensemble . . . . . 4

Departmentally approved electives to complete an emphasis in one of the following areas . . . . . 27.5-33

Area 1 Jazz-Commercial Music

\*Area 2 Music Technology

Area 3 Performance (Instrumental, Piano, Voice)

Area 4 Piano Pedagogy

A listing of specific courses required for each emphasis is available from the Department of Music office.

Selection of major large instrumental or vocal ensemble will be determined by the student's chosen emphasis.

Keyboard competency is demonstrated by passing MUS 2502 (Piano Class IV) with a grade of "B" or better, or passing the piano proficiency examination.\*\*

**MINOR NOT REQUIRED**

**GENERAL EDUCATION REQUIREMENTS** (pages 34-43) In the functional major, MUS 3211 and MUS 3212 are allowed to fulfill 3 s.h. of Div. II C . . . . . 45  
 MUS 1225 Div. II D (required) . . . . . 3

For piano pedagogy emphasis, PSY 1100 Div. II B is required.

For voice emphasis, FREN 1201 or GER 1301 Div. II C is required.

For music technology emphasis, ECON 1010 Div. II B is required.

**MINIMUM TOTAL** . . . . . 124

\*In the music technology emphasis, MUS 2040, MUS 2045, MUS 3040, and MUS 4045 will substitute for 4 s.h. of major instrument or voice, 1000 level, and major instrument or voice, 3000 level.

\*\*In the piano performance and piano pedagogy emphases, keyboard competency is demonstrated through successful completion of the sophomore examination.

**MUSIC**

**Minor for a Bachelor's Degree**

UCM does not confer teacher certification for this minor. (483)

Sem. Hours

**MINOR REQUIREMENTS** . . . . . 23

MUS 1000	Recital Attendance	0
MUS 1111	Theory I	3
MUS 1112	Theory II	3
MUS 1121	Aural Training I	1
MUS 1122	Aural Training II	1
MUS 3212	Music History 1800-Present	3
MUS 2221	Intro. to Music Literature I, 2 or	
MUS 2222	Intro. to Music Literature II, 2	2
	Major instrument or voice	4
	Major large ensemble	4
	Departmentally approved electives	2

**MUSIC EDUCATION**

**Functional Major, B.M.E. Degree**

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

- Understand the basic elements and structures of music history, theory, and performance literature.
- Understand music's relationship to the other arts, and how the arts relate to mankind.
- Use technology in appropriate music applications.
- Communicate the intellectual (thinking), emotional, and aesthetic (valuing) qualities of music to a diverse society.
- Teach essential elements of music and music performance at elementary and secondary school levels.
- Perform with appropriate tone, technique, and musicality in his/her primary performance medium.
- Demonstrate functional piano performance skills.

**INSTRUMENTAL**

**Functional Major Option, B.M.E. Degree**

(45-440)

Certification to teach instrumental music in grades K-12

Sem. Hours

**FUNCTIONAL MAJOR REQUIREMENTS** . . . . . 59.5-63.5

MUS 1000	Recital Attendance	0
MUS 1111	Theory I	3
MUS 1112	Theory II	3
MUS 1121	Aural Training I	1
MUS 1122	Aural Training II	1
MUS 2111	Theory III	3
MUS 2112	Theory IV	3
MUS 2121	Aural Training III	1
MUS 2122	Aural Training IV	1
MUS 4115	Instrumentation	3
MUS 3211	Music History to 1800	3
MUS 3212	Music History 1800-Present	3
MUS 3306	Mth. of Tchg. Instrumental Music	3
MUS 3308	Marching Band Techniques	1
MUS 4381	Jazz Pedagogy	2
MUS 2400	Fundamentals of Conducting	2
MUS 3420	Instrumental Conducting	3
MUS 1601	Voice Class I	1
MUS 1701	String Class	2
MUS 2801	Woodwind Class I	1
MUS 2802	Woodwind Class II	1
MUS 2901	Brass Class I	1

MUS 2902	Brass Class II	1
MUS 2950	Percussion Class	1
	Major instrument, 1000 level	4
	Major instrument, 3000 level	4.5
	Major large instrumental ensemble	7

Wind/Percussion students must complete seven (7) separate semesters of major large instrumental ensemble to include:

- 3 semester hours in MUS 1005,
  - 2 semester hours in MUS 3000 and/or MUS 1010, &
  - 2 semester hours in one of the following:  
 MUS 1005 (an additional 1.5 hours maximum), MUS 1010,  
 MUS 1081, MUS 3000, MUS 3025, or MUS 3081.
- String students must complete six (6) semesters of MUS 3025 and one (1) semester of MUS 1907 (String Ensemble).

Piano . . . . . 0-4  
 Keyboard majors choose band or orchestra for major ensemble.  
 Keyboard competency is demonstrated by passing MUS 2502 (Piano Class IV) with a "B" or better and an additional hour of piano, or passing the piano proficiency exam.

**MINOR NOT REQUIRED**

**GENERAL EDUCATION REQUIREMENTS** (pages 34-43) In the functional major, MUS 3211 and MUS 3212 are allowed to fulfill 3 s.h. of Div. II C; in the professional education requirements, ICAP 4468 fulfills 3 s.h. of Div. IV B . . . . . 42

Secondary Education students must have one course in a physical or earth science and one in a biological science in Div. II A.

HIST 1350	Div. II B or	
HIST 1351	Div. II B (required)	3
POLS 1510	Div. II B (required)	3
MUS 1225	Div. II D (required)	3
PSY 4230	Psy. of Adolescence	3

Secondary Education students will be allowed to substitute PSY 4230 to fulfill 3 s.h. of Div. II B.

**PROFESSIONAL EDUCATION REQUIREMENTS** (page 115) . . . . . 28

**MINIMUM TOTAL** . . . . . 129.5

For additional certification to teach vocal music with the INSTRUMENTAL Functional Major Option, B.M.E. Degree, see the department chair.

**VOCAL**

**Functional Major Option, B.M.E. Degree**

Certification to teach vocal music in grades K-12 (45-441)

		Sem. Hours
<b>FUNCTIONAL MAJOR REQUIREMENTS</b>		<b>60.5-64.5</b>

MUS 1000	Recital Attendance	0
MUS 1111	Theory I	3
MUS 1112	Theory II	3
MUS 1121	Aural Training I	1
MUS 1122	Aural Training II	1
MUS 2111	Theory III	3
MUS 2112	Theory IV	3
MUS 2121	Aural Training III	1
MUS 2122	Aural Training IV	1
MUS 4130	Choral Arranging	2
MUS 2221	Introduction to Music Literature I	2
MUS 2222	Introduction to Music Literature II	2
MUS 3211	Music History to 1800	3
MUS 3212	Music History 1800-Present	3
MUS 4230	Choral Literature	2
MUS 3305	Meth. Tchg. Elem. Schl. Music	3
MUS 4320	Meth. Tchg. Middle Schl. Music	2
MUS 2400	Fundamentals of Conducting	2
MUS 3410	Choral Conducting	2
MUS 3415	Choral Techniques	2
MUS 1610	Voice I	4
MUS 2632	Diction for Singers	3
MUS 3610	Voice II	4.5
MUS 1615	Opera Theatre 1, or	
MUS 1620	Musical Theatre Practicum 1, . . . . .	1

Large vocal ensemble	7
Piano	0-4

A student who wishes this degree and elects a keyboard performing emphasis must have 4 hours of keyboard (1000 level), 4.5 hours of keyboard (3000 level), and 5 hours of voice or voice class in lieu of the required 8.5 hours of voice.

Keyboard competency is demonstrated by passing MUS 2502 (Piano Class IV) with a "B" or better and an additional hour of piano, or passing the piano proficiency exam.

**MINOR NOT REQUIRED**

**GENERAL EDUCATION REQUIREMENTS** (pages 34-43) In the functional major, MUS 3211 and MUS 3212 are allowed to fulfill 3 s.h. of Div. II C; in the professional education requirements, ICAP 4468 fulfills 3 s.h. of Div. IV B . . . . . 42  
 Secondary Education students must have one course in a physical or earth science and one in a biological science in Div. II A.

HIST 1350	Div. II B or	
HIST 1351	Div. II B (required)	3
POLS 1510	Div. II B (required)	3
MUS 1225	Div. II D (required)	3
PSY 4230	Psy. of Adolescence	3

Secondary Education students will be allowed to substitute PSY 4230 to fulfill 3 s.h. in Div. II B.

**PROFESSIONAL EDUCATION REQUIREMENTS** (page 115) . . . . . 28

**MINIMUM TOTAL** . . . . . 130.5

For additional certification to teach instrumental music with the VOCAL Functional Major Option, B.M.E. Degree, see the department chair.

**General**

**MUS 1000 Recital Attendance (0)** Laboratory in music listening and musical performance. Attendance at a designated number of department sponsored or approved concerts. Enrollment for pass-fail only.

**MUS 1005 Marching Band (1)** Appears at all home games, one away game, and frequently at professional football games. Membership selected by audition. *May be repeated.*

**MUS 1008 Campus Band (1)** A concert band open to any university student who wishes to continue band performance which explores a wide range of original and transcribed works. Music majors may gain experience on a secondary instrument. Membership selected by audition. *May be repeated.*

**MUS 1010 Symphonic Band (1)** Open without audition to any University student interested in band. Instrumental music majors may gain experience on a secondary instrument in the Symphonic Band. *May be repeated.*

**MUS 1040 Introduction to Music Technology (2)** The effects of changing technology on music and an introduction to the basic elements, terminology, and concepts of music technology. Prerequisite: Completion of MUS 1100 with a grade of "C" or better, or successful completion of the music theory placement exam.

**MUS 1045 Seminar in Music Technology (1)** Studies and practical applications in music recording and MIDI production. *May be repeated.*

**MUS 1055 Collegiate Choir (1)** A large mixed chorus which sings music representative of the finest in sacred and secular choral literature. Membership selected by audition. *May be repeated.*

**MUS 1081 Jazz Ensemble 2 (1)** Study and performance of traditional and progressive jazz ensemble music. Membership selected by audition. *May be repeated.*

**MUS 1085 Jazz-Rock Combo (1)** Study and performance of traditional and progressive jazz-rock music in a small group format. Membership selected by audition. *May be repeated.*

Participation in small ensembles is strongly recommended. These are ensembles with flexible instrumentation designed to promote musical independence and discriminating listening through performance of a wide variety of chamber music. Open to any University student by music faculty permission. *May be repeated.*

**MUS 1095 Keyboard Ensemble (1)**

**MUS 1097 String Ensemble (1)****MUS 1098 Chamber Winds and Percussion (1)**

**MUS 2040 Music Technology I (4)** An introduction to the theory and usage of audio recording/reproduction components as well as the application of informed musical judgment to the music production process. Laboratory included. Prerequisites: completion of MUS 1040, MUS 1111, and MUS 1121 with a grade of C or better, as well as full admission into the Bachelor of Music degree program. An additional fee is associated with this course.

**MUS 2045 Music Technology II (4)** Intermediate audio production focusing on computer-based recording and editing, with continued refinement of student ability to bring informed musical judgment to the mixing process. Laboratory included. Prerequisites: completion of MUS 2040 and MUS 1122 with a grade of C or better. An additional fee is associated with this course.

**MUS 3000 Symphonic Wind Ensemble (1)** A select band which performs original band literature and transcriptions of many famous works at frequent appearances. Membership selected by audition. *May be repeated.*

**MUS 3025 University Symphony Orchestra (1)** Performs concerts of standard and contemporary literature. Members selected by audition. *May be repeated.*

**MUS 3040 Music Technology III (5)** Advanced audio production and theory. Includes advanced work in musical approaches to recording and editing, as well as study of recording studio design, studio maintenance and acoustics. Laboratory included. Prerequisites: completion of MUS 2045 and MUS 2121 with a grade of C or better, as well as successful completion of the applied area sophomore exam and the Music Technology III entrance exam. An additional fee is associated with this course.

**MUS 3050 University Concert Choir (1)** A select choir which performs the best of choral literature in concert. Membership selected by audition. *May be repeated.*

**MUS 3060 Junior Recital (1)** One-half of a public recital. Prerequisite: consent of instructor.

**MUS 3070 Chamber Singers (1)** A select small chamber choir of mixed voices that performs vocal chamber music from all historical periods. Membership selected by audition. *May be repeated.*

**MUS 3075 Madrigal Singers (1)** A select performing group specializing in Renaissance and twentieth century madrigal singing. Membership selected by audition. *May be repeated.*

**MUS 3077 Vocal Jazz Ensemble (1)** A select ensemble specializing in vocal jazz arrangements of music from all styles. Membership is by audition. *May be repeated.*

**MUS 3081 Jazz Ensemble 1 (1)** A select ensemble which performs original jazz ensemble literature representing traditional as well as the most current forms of jazz. Membership selected by audition. *May be repeated.*

**MUS 3088 Guitar Ensemble (1)** An ensemble that studies and performs a wide range of music written for multiple guitars. Membership selected by audition. *May be repeated.*

**MUS 3095 Piano Accompanying Practicum (1)** Instruction and supervised practical experience in piano accompanying on an individual basis. *May be repeated.* Prerequisite: MUS 2515.

**MUS 4000 Special Projects in Music (1-3)** *May be repeated for a maximum of 6 semester hours.*

**MUS 4040 Music Business Practices (3)** Covers copyright, performance rights, client management and interaction. Prerequisite: ECON 1010.

**MUS 4045 Music Technology IV\* (5)** Advanced digital audio theory, advanced computer-based audio recording and editing, audio-for-video, electroacoustic composition, and historic origins of computer and electroacoustic music. Laboratory included. Prerequisites: completion of MUS 3040 and MUS 2122 with a grade of C or better. \*Not available for graduate credit. An additional fee is associated with this course.

**MUS 4049 Internship in Music Technology (1-6)** Field application of music industry theories and practices in professional music production or recording arts fields. *May be repeated for a maximum of 6 semester hours.* Prerequisite: consent of the music technology coordinator.

**MUS 4060 Senior Recital\* (1-2)** Full length public recital. Prerequisite: consent of instructor. \*Not available for graduate credit.

**Music Theory**

**MUS 1100 Fundamentals of Music (3)** Basic theory: notation, scales, chords, terminology. Application to simple rhythm, chording, and melody instruments and piano.

**MUS 1111 Theory I (3)** Basic materials: notation, rhythm and meter, scales, intervals, triads, primary and secondary harmony, V7, phrase, period, cadence, the concept of tonality, and related analysis. Prerequisite: Admission by examination or completion of MUS 1100 with grade of C or better. Corequisite: MUS 1121 for music majors and minors.

**MUS 1112 Theory II (3)** Melodic and harmonic structure and embellishment, nonharmonic tones, consonance and dissonance principles, simple two-part counterpoint, part writing, harmonic progression, secondary dominants, regions, and modulation. Prerequisite: MUS 1111. Corequisite: MUS 1122.

**MUS 1121 Aural Training I (1)** Basic listening and aural awareness skills: rhythm and pitch patterning, scales, intervals, triads, V7, primary triads, harmonic dictation, melodic memory, melodic dictation, and sight singing. Prerequisite: Admission by examination or completion of MUS 1100 with grade of C or better. Corequisite: MUS 1111

**MUS 1122 Aural Training II (1)** Continuation of development of aural skills introduced in MUS 1121 plus two-part dictation, nonharmonic tones, secondary triads, secondary dominants, and modulation. Prerequisite: MUS 1121. Corequisite: MUS 1112.

**MUS 2111 Theory III (3)** Continuation of the materials and organization of music: modality, modulation, seventh chords, chromatic harmony, contrapuntal procedures, and form. Prerequisite: MUS 1112. Corequisite: MUS 2121.

**MUS 2112 Theory IV (3)** Continuation of MUS 2111. Analytical and compositional methods of twentieth and twenty-first century music. Prerequisite: MUS 2111. Corequisite: MUS 2122.

**MUS 2121 Aural Training III (1)** Continuation of the development of aural skills in MUS 1122 applied to sight singing and aural perception of rhythm, melody, and chromatic harmony. Prerequisite: MUS 1122. Corequisite: MUS 2111.

**MUS 2122 Aural Training IV (1)** Continuation of the development of aural skills in MUS 2121 including rhythmic, melodic, and harmonic techniques from the twentieth century. Prerequisite: MUS 2121. Corequisite: MUS 2112.

**MUS 2141 Composition I (3)** Techniques of twentieth century composition through projects in smaller forms. Electronic music studio techniques. Aural and visual analysis of twentieth century music. *May be repeated for a maximum of 6 semester hours.* Prerequisites: MUS 1112 and MUS 1122.

**MUS 2180 Jazz Improvisation I (2)** The techniques and materials of jazz improvisation at the introductory level. Scales, chords, phrasing, articulation, and guided listening. Performance mandatory. Prerequisite: MUS 1112 and MUS 1122.

**MUS 2181 Jazz Improvisation II (2)** A continuation of MUS 2180. Advanced concepts in style and form. Transcription of recorded solos using altered scales and chords and the development of style. Performance mandatory. Prerequisite: MUS 2180.

**MUS 3141 Composition II (3)** Continuation of MUS 2141 through projects of small and medium dimensions adapted to needs and interests of the student. *May be repeated for a maximum of 12 semester hours.* Prerequisite: MUS 2141.

**MUS 4101 Counterpoint I (3)** Eighteenth century style in two parts: melodic structure, resolution of melodic and harmonic contrapuntal dissonances, canon, and the writing of original two-part inventions. Prerequisites: MUS 2112 and MUS 2122.

**MUS 4115 Instrumentation (3)** Characteristics of instruments normally found in band and orchestra. Short writing projects for instrumental choirs, full band and orchestra. Score study. Prerequisites: MUS 2112 and MUS 2122.

**MUS 4125 Form and Analysis (3)** Small song forms, rondos, variations and sonata forms, with emphasis on aural analysis and score readings. Prerequisites: MUS 2112 and MUS 2122 or concurrently.

**MUS 4130 Choral Arranging (2)** Practical arrangements for various choral ensembles for school organizations and church choirs. Prerequisites: MUS 2112 and MUS 2122 or concurrently.

**MUS 4181 Advanced Jazz Improvisation (2)** Advanced study of jazz improvisation techniques in applied, private lessons. *May be repeated.* Prerequisite: MUS 2181 or consent of instructor.

**MUS 4185 Jazz-Commercial Arranging (3)** Characteristics of instruments normally found in jazz ensemble and commercial performing groups. Emphasis on style and voicing problems in these idioms. Writing projects for combo and jazz ensemble. Score study. Prerequisites: MUS 2112 and MUS 2122.

**MUS 4186 Advanced Jazz-Commercial Arranging (2)** Private lessons in composition, arranging, score study, and analysis for various jazz or commercial ensembles based on individual student needs and interests. *May be repeated.* Prerequisite: MUS 4185.

**MUS 4190 Electronic Music Composition (3)** Composition of electronic music in popular and artistic styles. Technical principles, history of the genre, and aesthetic considerations of electronic music. Prerequisite: Mus 1112.

### Music History and Literature

**MUS 1210 Experiencing Music (3)** An introduction to important musical masterpieces with emphasis on the knowledge and skills involved in perceptive listening. Prerequisite: no previous musical experience is necessary.

**MUS 1225 Music of the World's Cultures (3)** The fusion of western and non-western musical cultures through their folk, popular, and classical musics.

**MUS 1281 History and Development of Jazz (3)** A survey of the evolution in jazz music in the United States. Includes discussion of the styles and characteristics of each period of jazz history and the contributions of influential groups and individuals.

**MUS 2221 Introduction to Music Literature I (2)** An introduction to the principal genres of instrumental music with emphasis on representative works from the standard repertoire. A basic knowledge of instrumental music is assumed. Prerequisite: MUS 1112 or consent.

**MUS 2222 Introduction to Music Literature II (2)** An introduction to the principal genres of vocal music including oratorio, church music, opera, and art songs. A basic knowledge of vocal music is assumed. Prerequisite: MUS 1112 or consent.

**MUS 3211 Music History to 1800 (3)** Early history of music including the Medieval, Renaissance, Baroque, and Classic eras. For music majors and minors only. Prerequisite: nonmusic majors only with consent.

**MUS 3212 Music History 1800-Present (3)** Music of Beethoven, the Romantic era, and the twentieth century. For music majors and minors only. Prerequisite: nonmusic majors only with consent.

**MUS 4201 Piano Literature Through Beethoven (2)** Survey and analysis of music written for clavichord, harpsichord, and piano through the music of Beethoven. Prerequisite: four semesters of MUS 1510 or equivalent.

**MUS 4202 Piano Literature From the Romantic Era to the Present (2)** Survey and analysis of music written for piano from the Romantic era through the present. Prerequisite: four semesters of MUS 1510 or equivalent.

**MUS 4230 Choral Literature (2)** Music literature for all choral groups with emphasis on the performance style and interpretative problems of the choral conductor. Prerequisite: MUS 2221.

**MUS 4235 Vocal Literature (3)** A survey of solo literature for all voice classifications with emphasis on the development of art song in the Italian, British, German, French, and American repertoires. Prerequisite: MUS 2222 or consent of instructor.

**MUS 4240 String Instrument Literature and Pedagogy (2)** A survey of literature, instructional materials, and pedagogy of the various string instruments. Prerequisite: 12 semester hours credit on major instrument.

**MUS 4245 Woodwind Instrument Literature and Pedagogy (2)** A survey of literature, instructional materials, and pedagogy of woodwind instruments. Prerequisite: 12 semester hours credit on major instrument.

**MUS 4250 Brass Instrument Literature and Pedagogy (2)** A survey of literature, instructional materials, and pedagogy of brass instruments. Prerequisite: 12 semester hours credit on major instrument.

**MUS 4255 Percussion Literature and Pedagogy (2)** A survey of literature, instructional materials, and pedagogy of percussion instruments. Prerequisites: 12 semester hours credit on major instrument.

### Music Education

**MUS 3301 Music for Elementary Schools (2)** The study of music fundamentals, methods and materials appropriate for teaching music to children K-6. Developing skills in listening, singing, playing percussion and tonal instruments. Planning and evaluating learning experiences.

**MUS 3305 Methods of Teaching Elementary School Music (3)** Musical growth and materials designed for music majors who are preparing to teach vocal music in the elementary schools. Prerequisite: MUS 1112 and admission to the Teacher Education Program.

**MUS 3306 Methods of Teaching Instrumental Music (2-3)** Materials, techniques, and organization of the elementary and middle school instrumental program designed for music majors who are preparing to teach instrumental music. Includes an introduction to early childhood choral literature and musical instruments. Prerequisite: MUS 1112 and admission to the Teacher Education Program.

**MUS 3308 Marching Band Techniques (1)** The various techniques of pageantry, precision drill, arranging, charting and planning, as well as problems of organization, administration and public relations.

**MUS 4310 Methods of Teaching Music\* (2)** Prerequisites: admission to Teacher Education Program; double majors must take a methods course for each major; methods should be taken concurrently with MUS 4350 during the Professional Semester. \*Not available for graduate credit.

**MUS 4320 Methods of Teaching Middle School Music (2)** Objectives, materials, subject matter and problems in the teaching of vocal and general music in the junior high school. Prerequisite: MUS 3305 or MUS 3306 or consent of instructor.

**MUS 4350 Secondary Field Experience II\* (1)** Experiences in the secondary school classroom that provide the teacher candidate more advanced involvement in the teaching-learning process. Prerequisites: admission to Teacher Education Program; should be taken concurrently with MUS 4310 during the Professional Semester. \*Not available for graduate credit.

**MUS 4370 Band Instrument Repair (2)** A study and practice of band instrument maintenance and repair techniques. Prerequisite: one semester each of woodwind and brass study, or one year of teaching music in public schools.

**MUS 4381 Jazz Pedagogy (2)** Techniques, systems and materials for teaching of jazz ensembles and jazz improvisation. Supervised conducting experience with a University jazz ensemble. Prerequisite: MUS 2400 and successful completion of the piano proficiency requirement.

### Conducting

**MUS 2400 Fundamentals of Conducting (2)** An introductory course in conducting including baton technique and basic score preparation. Prerequisites: MUS 1112 and MUS 1122 or concurrently.

**MUS 3410 Choral Conducting (2)** Techniques of choral conducting, rehearsal procedures, and basic choral repertoire. Prerequisite: MUS 2400.

**MUS 3415 Choral Techniques (2)** Aspects of choral singing, including the human voice and choral tone, choral diction, organization, rehearsal procedures, and basic choral repertoire. Prerequisites: MUS 3410 or concurrently, successful demonstration of keyboard competency and admission to the Teacher Education Program.

**MUS 3420 Instrumental Conducting (3)** Advanced techniques of conducting instrumental ensembles, development of visual/aural discrimination skills for diagnosing and correcting problems in performance; and selection of appropriate methods and literature. Prerequisites: MUS 2400, successful demonstration of keyboard competency and admission to the Teacher Education Program.

### Piano and Organ

**MUS 1501 Piano Class I (1)** Study of the piano, especially for adult students who have had no previous training.

**MUS 1502 Piano Class II (1)** A continuation of MUS 1501.

Prerequisite: MUS 1501.

**MUS 1507 Secondary Keyboard Lessons (1)** Private lesson study in any keyboard instrument listed in this catalog. Does not count for any music major or minor as the principal performing area. Prerequisite: initial enrollment by permission of applied area faculty. *May be repeated.*

**MUS 1510 Piano I (1)** Technical study and easier compositions selected from the various eras of keyboard literature. In addition to weekly lessons, attendance at biweekly studio classes is required. *May be repeated.* Prerequisite: Successful completion of entrance examination required for initial enrollment.

**MUS 1520 Organ I (1)** Manual and pedal study, elementary registration and specification; Bach short preludes and fugues, chorale preludes, etc. In addition to weekly lessons, attendance at biweekly studio classes is required. *May be repeated.* Prerequisite: Successful completion of entrance examination required for initial enrollment.

**MUS 2501 Piano Class III (1)** A continuation of MUS 1502 with additional emphasis on functional keyboard skills. *May be repeated.* Prerequisite: MUS 1502.

**MUS 2502 Piano Class IV (1)** Emphasis on specific piano proficiency skills for vocal and instrumental students preparing for a teaching career. *May be repeated.* Prerequisite: MUS 2501 or MUS 1510 or permission of instructor.

**MUS 2515 Piano Accompanying (2)** A study of and practical experience in piano accompanying in various musical mediums, using music from several styles and historical eras. Prerequisite: one year of college level private piano or consent of instructor.

**MUS 3510 Piano II (1.5)** Technical study and moderately difficult compositions selected from the various eras of keyboard literature. In addition to weekly lessons, attendance at biweekly studio classes is required. *May be repeated.* Prerequisite: successful completion of lower level credit as determined by departmental examination.

**MUS 3520 Organ II (1.5)** Continued manual and pedal study; Bach preludes and fugues; selections from advanced classic and modern organ works; church playing and accompaniments. In addition to weekly lessons, attendance at biweekly studio classes is required. *May be repeated.* Prerequisite: successful completion of lower level credit as determined by departmental examination.

**MUS 4511 Piano Pedagogy I – The Beginner (3)** Goals, methods, and materials for individual and class instruction of beginning piano students. Includes practice teaching and observation. Prerequisite: Two semesters of MUS 1510 or equivalent.

**MUS 4512 Piano Pedagogy II – The Intermediate Student (3)** Goals, methods, and materials for teaching intermediate piano students. Includes practice teaching and observation. Prerequisite: Two semesters of MUS 1510 or equivalent.

**MUS 4513 Piano Pedagogy III – The Advanced Student (3)** Goals, methods, and materials of advanced piano teaching. Includes practice teaching and observation. Prerequisite: Two semesters of MUS 1510 or equivalent.

**MUS 4514 Piano Pedagogy IV – Seminar (3)** Intensive individual study in piano pedagogy designed to improve the student's understanding of a selected area of interest. Prerequisite: MUS 4511 or MUS 4512 or MUS 4513 or the equivalent.

**MUS 4515 Practice Teaching in Piano (1.5)** Supervised teaching of piano students. Course must be repeated. Prerequisites: MUS 4511 and MUS 4512 or the equivalent.

### Voice

**MUS 1601 Voice Class I (1)** Breathing exercises, diction, stage deportment, acquaintance with familiar vocal literature, and experience in solo and duet singing. Designed for beginning voice students. Prerequisite: demonstrated ability to read music.

**MUS 1602 Voice Class II (2)** Instruction in breathing, resonance, diction, musicality, performance skills, and the nature of the vocal instrument, using solo song and duet literature in English and Italian. Prerequisite: one semester of MUS 1610, or MUS 1601.

**MUS 1607 Secondary Voice Lessons (1)** Private lesson study in voice. Does not count as credit for any music major or minor as the principal performing area. Prerequisite: initial enrollment by permission of applied area faculty. *May be repeated.*

**MUS 1610 Voice I (1)** Breath control; technical exercises represented by Sieber, Vaccai, and other specified methods. Early Italian songs. English songs of medium difficulty, and other repertoire suggested by the instructor. In addition to weekly lessons, attendance at biweekly studio classes is required. *May be repeated.* Prerequisite: Successful completion of entrance examination required for initial enrollment.

**MUS 1615 Opera Theatre (1-2)** Production of scenes from operatic repertoire. *May be repeated for a maximum of 4 semester hours.*

**MUS 1620 Musical Theatre Practicum (1-2)** Rehearsal and performance of Musical Theatre repertoire. *May be repeated for a maximum of 4 semester hours.* Prerequisite: entrance by audition.

**MUS 2632 Diction for Singers (3)** Systematic instruction in singing English, French, German, and Italian art songs emphasizing clear, correct, and expressive diction. Prerequisite: MUS 1610 or consent of instructor.

**MUS 3610 Voice II (1.5)** Advanced technical exercises, modern art songs; the great Lieder composers; French art songs; and representative repertoire from opera and oratorio. In addition to weekly lessons, attendance at biweekly studio classes is required. *May be repeated.* Prerequisite: successful completion of lower level credit as determined by departmental examination.

**MUS 4600 Vocal Pedagogy (2)** For prospective singing teachers. Includes study of the physiology of the vocal instrument, the techniques of singing production, goals and materials, teaching techniques, and analysis of vocal problems. Observation of master teachers, and supervised teaching will be required. Prerequisite: three years of vocal training.

### String Instruments

**MUS 1701 String Class (1)** A laboratory course in the fundamentals of playing and teaching string instruments. *May be repeated for a maximum of 2 semester hours.* Two different string instruments will be studied in each semester.

**MUS 1703 Folk Guitar Techniques (2)** Beginning instruction in folk guitar performance intended to equip the student with the skills required to harmonize folk melodies.

**MUS 1707 Secondary String Lessons (1)** Private lesson study in any string instrument listed in this catalog. Does not count for any music major or minor as the principal performing area. Prerequisite: initial enrollment by permission of applied area faculty. *May be repeated.* The course description is applicable for all applied string instruments courses: easy technical studies, easy standard sonatas, concertos, and short solos. In addition to weekly lessons, attendance at biweekly studio classes is required. *May be repeated.* Prerequisite: Successful completion of entrance examination required for initial enrollment.

**MUS 1710 Violin I (1)**

**MUS 1715 Viola I (1)**

**MUS 1720 Cello I (1)**

**MUS 1725 String Bass I (1)**

**MUS 1760 Guitar I (1)** Technical studies, standard solo literature from all style periods. In addition to weekly lessons, attendance at biweekly studio classes is required. *May be repeated.* Prerequisite: Successful completion of entrance examination required for initial enrollment. The course description is applicable for the following string instruments courses: advanced technical studies, advanced standard sonatas, concertos, and short solos. In addition to weekly lessons, attendance at biweekly studio classes is required. *May be repeated.* Prerequisite: successful completion of lower level credit as determined by departmental examination.

**MUS 3710 Violin II (1.5)**

**MUS 3715 Viola II (1.5)**

**MUS 3720 Cello II (1.5)**

**MUS 3725 String Bass II (1.5)**

**MUS 3760 Guitar II (1.5)** Advanced technical studies, advanced standard sonatas, concertos, and short solos. In addition to weekly lessons, attendance at biweekly studio classes is required. *May be repeated.* Prerequisite: successful completion of lower level credit as determined by departmental examination.

### Woodwind Instruments

**MUS 1807 Secondary Woodwind Lessons (1)** Private lesson study in any woodwind instrument listed in this catalog. Does not count for any music major or minor as the principal performing area. Prerequisite: initial enrollment by permission of applied area faculty. *May be repeated.*

The course description is applicable for the following woodwind instruments courses: breath control; fundamentals of mechanism, embouchure; proper tonal color; technical exercises; easy solos; supervised chamber ensemble rehearsals. In addition to weekly lessons, attendance at biweekly studio classes is required. *May be repeated.* Prerequisite: Successful completion of entrance examination required for initial enrollment.

**MUS 1810 Flute I (1)**

**MUS 1815 Clarinet I (1)**

**MUS 1820 Oboe I (1)**

**MUS 1825 Saxophone I (1)**

**MUS 1830 Bassoon I (1)**

**MUS 2801 Woodwind Class I (1)** A laboratory course in the fundamentals of playing and teaching the clarinet and the saxophone.  
**MUS 2802 Woodwind Class II (1)** A laboratory course in the fundamentals of playing and teaching the oboe, the bassoon, and the flute.

The course description is applicable for all applied woodwind instruments courses: advanced technical studies; standard solos; chamber ensemble playing. In addition to weekly lessons, attendance at biweekly studio classes is required. *May be repeated.*

Prerequisite: successful completion of lower level credit as determined by departmental examination.

**MUS 3810 Flute II (1.5)**

**MUS 3815 Clarinet II (1.5)**

**MUS 3820 Oboe II (1.5)**

**MUS 3825 Saxophone II (1.5)**

**MUS 3830 Bassoon II (1.5)**

**MUS 3910 Trumpet II (1.5)**

**MUS 3915 French Horn II (1.5)**

**MUS 3920 Trombone II (1.5)**

**MUS 3925 Baritone Horn II (1.5)**

**MUS 3930 Tuba II (1.5)**

**MUS 3960 Percussion II (1.5)** Advanced study of snare drum, keyboard, percussion, and timpani, as well as an emphasis in performance literature. In addition to weekly lessons, attendance at biweekly studio classes is required. *May be repeated.* Prerequisite: successful completion of lower level credit as determined by departmental examination.

### Brass and Percussion Instruments

**MUS 1907 Secondary Brass and Percussion Lessons (1)** Private lesson study in any brass instrument listed in this catalog or in percussion. Does not count for any major or minor as the principal performing area. Prerequisite: initial enrollment by permission of applied area faculty. *May be repeated.*

The course description is applicable for the following brass instruments courses: breath control; fundamentals of mechanism, embouchure; proper tonal color; technical exercises; easy solos; supervised chamber ensemble rehearsals. In addition to weekly lessons, attendance at biweekly studio classes is required. *May be repeated.* Prerequisite: Successful completion of entrance examination required for initial enrollment.

**MUS 1910 Trumpet I (1)**

**MUS 1915 French Horn I (1)**

**MUS 1920 Trombone I (1)**

**MUS 1925 Baritone Horn I (1)**

**MUS 1930 Tuba I (1)**

**MUS 1960 Percussion I (1)** Fundamental skills in rudimental and concert snare drum techniques. Study of the keyboard percussion instruments and an introduction to the timpani. In addition to weekly lessons, attendance at biweekly studio classes is required. *May be repeated.* Prerequisite: Successful completion of entrance examination required for initial enrollment.

**MUS 2901 Brass Class I (1)** A laboratory course in the fundamentals of playing and teaching the trumpet and French horn.

**MUS 2902 Brass Class II (1)** A laboratory class in the fundamentals of playing and teaching the baritone horn, the trombone, and the tuba.

**MUS 2950 Percussion Class (1)** A laboratory course in the basic techniques of playing and teaching the instruments of percussion.

The course description is applicable for the following applied brass instruments courses: advanced technical studies; standard solos; chamber ensemble playing. In addition to weekly lessons, attendance at biweekly studio classes is required. *May be repeated.* Prerequisite: successful completion of lower level credit as determined by departmental examination.



# Political Science and Geography

## Political Science

### POLITICAL SCIENCE

Major, Bachelor of Arts Degree  
(42-425)

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

- Understand individual rights and responsibilities in a democratic system
- Understand and explain the complexities of politics in an international community
- Comprehend alternative perspectives on political values and behavior, political cultures, institutions, policy making, theory, jurisprudence, and civil liberties and rights
- Think critically and to construct logical arguments concerning institutions and processes of government and contemporary public policy issues
- Communicate effectively about politics in both written and oral forms
- Prepare for successful careers in public, private and non-profit service sector
- Qualify for post-graduate education.

Sem. Hours

MAJOR REQUIREMENTS . . . . . 33

POLS 2520	Comp. Government & Politics	3
POLS 2530	International Relations	3
POLS 2540	Survey of Political Theory	3
POLS 2580	Public Law & Judicial Process	3
POLS 3560	Research Methods in Pol. Sci.	3
POLS 4570	Public Administration	3
	Electives in political science	15

MINOR REQUIREMENTS . . . . . 18-25

GENERAL EDUCATION REQUIREMENTS (pages 34-43) Students majoring in Political Science must take POLS1500 which fulfills 3 s.h. in Div. II B & POLS 1510 which fulfills state law requirements, Section 170.11 RSMO Supp (1988). . . . . 42

MODERN LANGUAGE REQUIREMENT Refer to Bachelor's Degree Requirements section for fulfillment options. . . . . 3-9

FREE ELECTIVES . . . . . 15-18

MINIMUM TOTAL . . . . . 124

### POLITICAL SCIENCE

Major, Bachelor of Science Degree  
(43-426)

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

- Understand individual rights and responsibilities in a democratic system.
- Understand and explain the complexities of politics in an international community.
- Comprehend alternative perspectives on political values and behavior, political cultures, institutions, policy making, theory, jurisprudence, and civil liberties and rights.
- Think critically and to construct logical arguments concerning institutions and processes of government and contemporary public policy issues.
- Communicate effectively about politics in both written and oral forms.
- Prepare for successful careers in public, private and non-profit service sector.
- Qualify for post-graduate education.

Sem. Hours  
MAJOR REQUIREMENTS . . . . . 33

POLS 2520	Comp. Government & Politics	3
POLS 2530	International Relations	3
POLS 2540	Survey of Political Theory	3
POLS 2580	Public Law & Judicial Process	3
POLS 3560	Research Methods in Pol. Sci.	3
POLS 4570	Public Administration	3
	Electives in political science	15

MINOR REQUIREMENTS . . . . . 18-25

GENERAL EDUCATION REQUIREMENTS (pages 34-43) Students majoring in Political Science must take POLS 1500 which fulfills 3 s.h. in Div. II B & POLS 1510 which fulfills state law requirements, Section 170.11 RSMO Supp (1988) . . . . . 45

FREE ELECTIVES . . . . . 21-28

MINIMUM TOTAL . . . . . 124

### POLITICAL SCIENCE

Minor for a Bachelor's Degree

UCM does not confer teacher certification for this minor  
(427)

Sem. Hours

MINOR REQUIREMENTS . . . . . 20

POLS 2520	Comp. Government & Politics	3
POLS 2530	International Relations	3
POLS 2540	Survey of Political Theory	3
POLS 2580	Public Law & Judicial Process	3
	Electives in political science	8

GENERAL EDUCATION REQUIREMENTS (pages 34-43) Students minoring in Political Science must take POLS 1500 which fulfills 3 s.h. in Div II B 2)

### INTERNATIONAL STUDIES

Minor for a Bachelor's Degree

UCM does not confer teacher certification for this minor  
(489)

Sem. Hours

MINOR REQUIREMENTS . . . . . 24

One modern (foreign) language	6
Electives from the following	6
ANTH 4870 Comparative Cultures	3
GEOG 2212 World Geography	3
POLS 2520 Comparative Politics	3
REL 3210 Comparative World Religions	3
COMM 3340 Intercultural Communication, 3 or	
ENGL 4120 Language & Culture, 3	3

Departmentally approved electives from one of the following areas listed below. A listing of courses is available from the Chair of the Department or Director of International Programs . . . . . 12

Additional information about these options is available at <http://www.ucmo.edu/international>

- Area 1 Social Sciences
- Area 2 Generalist: Humanities
- Area 3 East Asia
- Area 4 Latin America
- Area 5 Europe
- Area 6 International Economic or Agri-Business Development
- Area 7 International Tourism
- Area 8 African Studies
- Area 9 International Studies

Students are required to seek advisement concerning courses taken toward a minor in International Studies from the Director of International Programs.

GENERAL EDUCATION REQUIREMENTS (pages 34-43) In the minor, if elected GEOG 2212 fulfills 3 s.h. of Div. II B; Modern (foreign) language fulfills 3 s.h. of Div. II C

**POLS 1500 Introduction to Political Science (3)** A survey of the determinants defining the relationship of the individual to the political environment and the political system. The primary focus is on the three fundamental levels of politics: the individual, the state, and the international community.

**POLS 1510 American Government (3)** The nature, philosophical bases, development, functions, structure, and processes of the government and politics of the United States and of Missouri. Emphasis on and analysis of the nature and development of the provisions and principles of the Constitution of the United States and of Missouri. Fulfills state requirements of Section 170.011 RSMo.

**POLS 2511 State Government (3)** Administrative, legislative, and judicial activities of state governments and their relationships to national and local governments with special emphasis on state and local governments in Missouri.

**POLS 2520 Comparative Government and Politics (3)** Introduction to major forms of government throughout the world.

**POLS 2530 International Relations (3)** Introduction to international relations with specific focus on the nature and causes of war, conflict resolution, political, social, economic, and military issues in international politics.

**POLS 2540 Survey of Political Theory (3)** Examines concepts such as justice, civil disobedience, equality, liberty, etc., and how they are defined by major political theorists from Plato to the present.

**POLS 2550 Political Parties and Interest Groups (3)** The theory, principles, structures, and functions of interest groups and political parties in the American political system.

**POLS 2580 Public Law and the Judicial Process (3)** Examination of the nature of law, the organization and staffing of courts, judicial policymaking, the Supreme Court's decision-making process, statutory and constitutional interpretation, and the impact of judicial decisions.

**POLS 3520 Asian Government and Politics (3)** A comparative study of the major political systems of Asia, focusing on political institutions, policy-making, domestic and foreign policy as well as persistent policy issues, challenges and political dynamics.

**POLS 3521 Latin American Government and Politics (3)** A comparative study of the political system of the Latin American countries.

**POLS 3522 Modern East Asia (3)** A survey of the cultures, histories, societies, economies, and political systems of the major countries of Asia. Specific focus is on the events and resulting changes within the region during the past century.

**POLS 3523 Modern Sub-Saharan Africa (3)** A comparative study of development issues in Sub-Saharan Africa. Topics include democratization, political culture, ethnicity and the role of the international community in Africa.

**POLS 3530 International Organizations (3)** The role of international organizations in international relations and collective security with specific emphasis on the United Nations, the European Union and other regional organizations.

**POLS 3541 Contemporary Political Theory (3)** Examines recent debates about the meaning of democracy, citizenship, civil society, and community in the contemporary era of increasingly diverse and interconnected nation-states.

**POLS 3550 Public Opinion and Mass Media (3)** Examines the forces that shape, and techniques used to measure, public opinion, also focusing on the media as a link between public opinion and government.

**POLS 3551 Race and Ethnic Politics in the United States (3)** Survey of the political mobilization, participation, and issues facing Latinos, African Americans, Asian Americans, Native Americans, and European ethnic groups in U.S. politics.

**POLS 3553 Women and Politics (3)** The course examines a variety of social, political, and economic issues that affect women in the United States and around the world.

**POLS 3560 Research Methods in Political Science (3)** This course will acquaint students with a wide variety of research methods used to analyze political phenomena, concentrating on those approaches that are both quantitative and nonquantitative, including case studies, interviewing, field research, and a lab component utilizing packaged computer programs for statistical analysis.

**POLS 4511 Public Policy (3)** The course examines the public policymaking process as well as the forces that shape US policy in the context of globalization. Permission from instructor must be obtained to take this course for graduate credit.

**POLS 4520 Principles of International Development (3)** Problems of development in the developing nations of the world and the concepts and theories for their comparative analysis.

**POLS 4521 Culture and Politics of the Middle East (3)** The influence of culture on the politics, political systems and issues of the Middle East.

**POLS 4530 International Law (3)** An examination of its nature, history, philosophies, and basic rules as found in treaties, court decisions, customs, and other sources.

**POLS 4531 American Foreign Policy (3)** The foreign policy of the United States with specific focus on the policy authority of the American President, the Congress, the Courts, United States foreign policies toward Russia, Europe and the Middle East are considered.

**POLS 4532 International Relations of East Asia (3)** Study of contemporary regional politics of East Asia focusing on political culture, nationalism and the foreign policies of the United States, Russia, China and Japan as they relate to security challenges in East Asia.

**POLS 4550 The European Union (3)** An examination of the theory, history, politics and institutions of the European Union with special emphasis on the socioeconomic factors that influenced the formation and subsequent expansions of the EU, particularly the regional differences and concerns over sovereignty.

**POLS 4552 Legislative Politics (3)** The major functions, roles, powers, processes and development of the national and state legislatures. Special attention is given to legislative elections, leadership and decision-making.

**POLS 4553 Twentieth Century African-American Politics (3)** Examines the political, economic and social aspects of African American politics in the 20th Century.

**POLS 4555 The American Presidency (3)** The constitutional origins of the presidency, its powers, selection process, and the presidents' relations with the public, the media, political parties, and the other major institutions of government. Particular emphasis is on the presidency as an institution of leadership. Prerequisite: POLS 1510.

**POLS 4570 Public Administration (3)** A broad and basic study of public administration in the United States. Prerequisite: POLS 1510 and Junior or Senior standing unless approved by instructor.

**POLS 4571 Municipal Administration (3)** Principles of municipal administration as they operate in the United States under the various forms of municipal governments. Prerequisite: POLS 1510.

**POLS 4580 American Constitutional Law (3)** An interpretation of our constitutional heritage, including the growth of federal judicial power and the role of the Supreme Court.

**POLS 4581 Constitutional Rights (3)** Except for the First Amendment, this course examines individual rights and liberties found within and outside of the Constitution.

**POLS 4583 First Amendment (3)** This course examines First Amendment controversies, including flag burning, obscenity, libel, hate speech, free press vs. fair trial, and freedom of and from religion.

**POLS 4590 Special Projects in Political Science (1-6)** Study, interpretation, and discussion of special topics and problems in political science. *May be repeated for a maximum of 6 semester hours.*

**POLS 4591 Internship in Political Science (1-6)** Practical experience with a governmental or political unit. Supervision by professional of unit and by member of University faculty. *May be repeated for a maximum of 6 semester hours.* Prerequisite: consent of department.

**POLS 4592 Problems in National, State or Local Government (1-3)** Special problems in government, selected by student and instructor. *May be repeated for a maximum of 6 semester hours.*

## Geography

### GEOGRAPHY

Major, Bachelor of Arts Degree  
(42-429)

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

- Appreciate the depth, breadth, and value of geography as both a theoretical and applied science through the study of the basic traditions: earth science, culture-environment, location, and area/regional analysis
- Identify, describe, and analyze patterns of human distribution, movement, interaction, and environmental impact.
- Identify, describe, and analyze physical and climatological patterns and processes in both classroom and field settings.
- Read, interpret, update and produce maps using traditional and electronic methods.
- Communicate in written and spatial form the geographic concepts, theories, and information/data that underlay the cultural and physical diversity of world realms and regions.
- Understand and appreciate patterns and landscapes of diversity in a dynamic world.
- Use library resources and electronic media to explore/collect geographic information from texts, databases, maps and remotely-sensed images.
- Be familiar with the major themes and approaches in current geographic research and be able to employ basic geographic tools for research and analysis.
- To think creatively and critically about geographic factors in case studies, field settings, and real world scenarios.

Sem. Hours

**MAJOR REQUIREMENTS . . . . . 33**

GEOG 2100	Physical Geography . . . . .	3
GEOG 2212	World Geography . . . . .	3
GEOG 2246	Economic Geography . . . . .	3
GEOG 3270	Research Methods in Geography . . . . .	3
GEOG 4201	Cartography . . . . .	3
Electives from the following, including two courses in regional geography . . . . .		18
EASC 1004	Intro. to the Sci.: Geology . . . . .	4
EASC 3111	Geomorphology . . . . .	3
Electives in geography . . . . .		11-18

**MINOR REQUIREMENTS . . . . . 18-25**

**GENERAL EDUCATION REQUIREMENTS** (pages 34-43) In the major, GEOG 2212 fulfills 3 s.h. of Div. II B; The Modern Language Requirement fulfills 3 s.h. of Div. II C. . . . . **42**  
EASC 1004, if elected, fulfills 4 s.h. of Div. II A.

**MODERN LANGUAGE REQUIREMENT** Refer to Bachelor's Degree Requirements section for fulfillment options. . . . . 3-9

**FREE ELECTIVES . . . . . 15-28**

**MINIMUM TOTAL . . . . . 124**

### GEOGRAPHY

Major, Bachelor of Science Degree  
(43-430)

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

- Appreciate the depth, breadth, and value of geography as both a theoretical and applied science through the study of the basic traditions: earth science, culture-environment, location, and area/regional analysis
- Identify, describe, and analyze patterns of human distribution, movement, interaction, and environmental impact.
- Identify, describe, and analyze physical and climatological patterns and processes in both classroom and field settings.
- Read, interpret, update and produce maps using traditional and electronic methods.
- Communicate in written and spatial form the geographic concepts,

theories, and information/data that underlay the cultural and physical diversity of world realms and regions.

- Understand and appreciate patterns and landscapes of diversity in a dynamic world.
- Use library resources and electronic media to explore/collect geographic information from texts, databases, maps and remotely-sensed images.
- Be familiar with the major themes and approaches in current geographic research and be able to employ basic geographic tools for research and analysis.
- To think creatively and critically about geographic factors in case studies, field settings, and real world scenarios.

Sem. Hours

**MAJOR REQUIREMENTS . . . . . 33**

GEOG 2100	Physical Geography . . . . .	3
GEOG 2212	World Geography . . . . .	3
GEOG 2246	Economic Geography . . . . .	3
GEOG 3270	Research Methods in Geography . . . . .	3
GEOG 4201	Cartography . . . . .	3
Electives from the following, including two courses in regional geography . . . . .		18
EASC 1004	Intro. to the Sci.: Geology . . . . .	4
EASC 3111	Geomorphology . . . . .	3
Electives in geography . . . . .		11-18

**MINOR REQUIREMENTS . . . . . 18-25**

**GENERAL EDUCATION REQUIREMENTS** (pages 34-43) In the major, GEOG 2212 fulfills 3 s.h. of Div. II B) . . . . . **45**  
EASC 1004, if elected, fulfills 4 s.h. of Div. II A

**FREE ELECTIVES . . . . . 21-28**

**MINIMUM TOTAL . . . . . 124**

### GEOGRAPHY

Minor for a Bachelor's Degree

UCM does not confer teacher certification for this minor (431)

Sem. Hours

**MINOR REQUIREMENTS . . . . . 21**

GEOG 2100	Physical Geography . . . . .	3
GEOG 2212	World Geography . . . . .	3
GEOG 2246	Economic Geography . . . . .	3
GEOG 3270	Research Methods in Geography . . . . .	3
Electives from the following, including one course in regional geography . . . . .		9
EASC 1004	Intro. to the Sci.: Geology . . . . .	4
EASC 3111	Geomorphology . . . . .	3
Electives in geography . . . . .		2-9

**GENERAL EDUCATION REQUIREMENTS** (pages 34-43) In the minor, GEOG 2212 fulfills 3 s.h. of Div. II B. EASC 1004, if elected, fulfills 4 s.h. of Div. II A

### GEOGRAPHIC INFORMATION SYSTEMS

Minor for a Bachelor's Degree

UCM does not confer teacher certification for this minor (857)

Sem. Hours

**MINOR REQUIREMENTS . . . . . 24**

CIS 1605	Microcomputer Application Software . . . . .	3
GEOG 2212	World Geography . . . . .	3
GEOG 2281	Map Interpretation . . . . .	3
GEOG 3270	Research Methods in Geography . . . . .	3
GEOG 4201	Cartography . . . . .	3
GEOG 4220	Geographic Information Systems I . . . . .	3
GEOG 4221	Geographic Information Systems II . . . . .	3
GEOG 4210	Remote Sensing and Image Interpretation . . . . .	3

**GEOG 2100 Physical Geography (3)** The areal distribution of the major elements of the physical environment relevant to man's occupation of the earth's surface.

**GEOG 2211 Geography of North America (3)** Physical and cultural features of the United States and Canada, based on regional concepts.

**GEOG 2212 World Geography (3)** A survey of the world's major regions, examining their unique peoples, cultures, economies, and physical environments.

**GEOG 2246 Economic Geography (3)** Influence of geographic factors upon economic life, including such topics as natural resources and the relations of geographic factors to industrial and commercial development.

**GEOG 2281 Map Interpretation (3)** A survey of the problems encountered in reading maps. Emphasis is on the kinds of information that can be presented on maps, the kinds of symbols used, and limitations of maps.

**GEOG 3200 Geography of Europe (3)** A systematic and regional approach to Europe involving the description and analysis of its major regions, political units, cultural diversity, and contemporary issues and problems.

**GEOG 3201 The Cultural Landscape (3)** A survey of fundamental human needs, beliefs, and activities that have molded the varied human landscapes of the world. Emphasis on the identification, description, and correlation of spatial variations of population, land use, and social and economic activities.

**GEOG 3225 Geography of Latin America (3)** South and Central America, including Mexico and the Caribbean, with analysis of the various physical environments, cultures, economies, and contemporary issues.

**GEOG 3270 Research Methods in Geography (3)** An overview of and training in methods of geographic data selection, collection, and analysis. Prerequisite: GEOG 2212 or GEOG 3201 or permission of instructor.

**GEOG 3275 Climatology (3)** Considers on a fundamental basis the physics of the atmosphere, hydrosphere, and lithosphere requisite to an understanding of the cultural implications of climate.

**GEOG 3310 Geography of Africa (3)** Historic and modern significance of Africa; description and delimitation of the major natural regions; and the dominant native cultures.

**GEOG 3314 Geography of North Africa/Southwest Asia (3)** Regional study of North Africa/Southwest Asia (Middle East) examining the spatial aspects of the realm's physical, cultural, and political geography. Covers countries from Morocco to Iran.

**GEOG 4201 Cartography (3)** Techniques and tools of map construction including gathering, manipulation, and representation of geographic data. Emphasis on thematic mapping and maps as communication. Traditional and electronic technologies stressed. Prerequisite: GEOG 2212 or EASC 1004 or consent of instructor.

**GEOG 4205 Advanced Cartography (3)** Implementation of mapping software, map design, problems and opportunities associated with computer mapping. Content includes obtaining data in a computer context (e.g., Cyberspace). Prerequisite: GEOG 4201 or equivalent or consent of instructor.

**GEOG 4210 Remote Sensing and Image Interpretation (3)** Use of electromagnetic spectrum to obtain information on our environment. Emphasis includes visible spectrum (air photography), thermography, radar, and satellite imagery. Prerequisite: GEOG 2212 or EASC 1004 or consent of instructor.

**GEOG 4220 Geographic Information Systems I (3)** Automated procedures for storage, analysis, and display of spatial information. Data bases, procurement of spatial information, data manipulation and display techniques, software systems and management issues.

**GEOG 4221 Geographic Information Systems II (3)** Advanced aspects of spatial analysis and modeling and programming. Emphasis on research and planning applications. Prerequisites: GEOG 4220 or consent of instructor.

**GEOG 4230 Geography of Asia (3)** A systematic and regional approach to the several Asian landscapes. Emphasis is on physical geography and cultural regions.

**GEOG 4235 Geography of the Former Soviet Union (3)** A regional geography of the F.S.U. The relationship of rigorous physical environment to national problems.

**GEOG 4240 Geography of Missouri (3)** A description and analysis of the topical and regional geography of Missouri.

**GEOG 4251 Special Projects in Geography (1-6)** Study, interpretation, and discussion of special topics and problems in geography. *May be repeated for a maximum of 6 semester hours.*

**GEOG 4260 Historical Geography of the United States (3)** Relationship of changing geography to physical environment and developing technology in the United States.

**GEOG 4265 Urban Geography (3)** Location of cities as related to other geographic phenomena. Urban units are analyzed with respect to general location theory.

**GEOG 4270 World Political Geography (3)** The historical development of the political organization of area. Theoretical aspects of political geography are emphasized.

**GEOG 4275 Special Topics in Geography (1-3)** Directed individual or group research of predetermined problems in geography for more intensive study. *May be repeated for a maximum of 3 semester hours.*

**GEOG 4291 Conservation of Natural Resources (3)** Problems of availability, production, exploitation, appraisal, distribution, and renewability of natural resources.

## Psychology

In the Department of Psychology, the second digit in the course number stands for the following: 0-Special Projects, 1-General-Experimental Psychology, 2-Developmental, 3-Personality-Social Psychology, 4-Clinical Psychology, 5-Psychometrics, 6-Industrial Psychology, 7-Rehabilitation.

### PSYCHOLOGY

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

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

- Demonstrate and integrate knowledge of the major concepts, theoretical perspectives, empirical findings, and historical trends in psychology.
- Understand and apply basic research methods in psychology, including research design, data analysis, and interpretation.
- Value and use critical and creative thinking, including the scientific method, to address problems related to behavior and mental processes.
- Appropriately apply knowledge and skills acquired in the psychology curriculum to personal, social, and organizational issues.
- Value and apply empirical evidence, cope with ambiguity, and behave legally and ethically in research and applied settings.
- Understand and apply the language of the science of psychology, through effective speaking, reading and writing.
- Demonstrate the ability to acquire and disseminate information and use computers and other technology for a variety of purposes.
- Recognize, understand, and respect individual differences and the complexity of sociocultural and international diversity. Demonstrate knowledge about how these factors affect applied and scholarly work.
- Demonstrate knowledge about realistic occupational, career, and advanced educational opportunities appropriate to the discipline and develop a feasible plan to pursue those opportunities.

Sem. Hours

#### MAJOR REQUIREMENTS . . . . . 33

PSY 1100	General Psychology . . . . .	3
PSY 2110	Research Design & Analysis I . . . . .	4
PSY 2120	Research Design & Analysis II . . . . .	4
PSY 2130	Learning . . . . .	3
PSY 3130	Physiological Psychology . . . . .	4
PSY 4110	Systems of Psychology . . . . .	3
PSY 3220	Lifespan Development . . . . .	3
PSY 3340	Social Psychology . . . . .	3
PSY 4310	Theories of Personality . . . . .	3
PSY 4440	Abnormal Psychology . . . . .	3

#### MINOR REQUIREMENTS . . . . . 18-25

**GENERAL EDUCATION REQUIREMENTS** (pages 34-43) In the major, PSY 1100 fulfills 3 s.h. of Div. II B; the Modern Language Requirement fulfills 3 s.h. of Div. II C . . . . . 42

**MODERN LANGUAGE REQUIREMENT** . . . . . 3-9

Refer to Bachelor's Degree Requirements section for fulfillment options.

**FREE ELECTIVES** . . . . . 12-25

**MINIMUM TOTAL** . . . . . 124

### PSYCHOLOGY

Major, Bachelor of Science Degree  
(43-747)

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

- Demonstrate and integrate knowledge of the major concepts, theoretical perspectives, empirical findings, and historical trends in psychology.
- Understand and apply basic research methods in psychology, including research design, data analysis, and interpretation.
- Value and use critical and creative thinking, including the scientific method, to address problems related to behavior and mental processes.
- Appropriately apply knowledge and skills acquired in the psychology curriculum to personal, social, and organizational issues.
- Value and apply empirical evidence, cope with ambiguity, and behave legally and ethically in research and applied settings.
- Understand and apply the language of the science of psychology, through effective speaking, reading and writing.
- Demonstrate the ability to acquire and disseminate information and use computers and other technology for a variety of purposes.
- Recognize, understand, and respect individual differences and the complexity of sociocultural and international diversity. Demonstrate knowledge about how these factors affect applied and scholarly work.
- Demonstrate knowledge about realistic occupational, career, and advanced educational opportunities appropriate to the discipline and develop a feasible plan to pursue those opportunities.

Sem. Hours

#### MAJOR REQUIREMENTS . . . . . 42

PSY 1100	General Psychology . . . . .	3
PSY 2110	Research Design & Analysis I . . . . .	4
PSY 2120	Research Design & Analysis II . . . . .	4
PSY 2130	Learning . . . . .	3
PSY 3130	Physiological Psychology . . . . .	4
PSY 4110	Systems of Psychology . . . . .	3
PSY 3220	Lifespan Development . . . . .	3
PSY 3340	Social Psychology . . . . .	3
PSY 4310	Theories of Personality . . . . .	3
PSY 4440	Abnormal Psychology . . . . .	3
Electives from the following . . . . . 9		
PSY 4130	Sensation & Perception . . . . .	3
PSY 4150	Cognitive Psychology . . . . .	3
PSY 4230	Psychology of Adolescence . . . . .	3
PSY 4240	Psychology of Aging . . . . .	3
PSY 4320	Psychology of Women . . . . .	2
PSY 4500	Intro. to Psy. Measurement . . . . .	3
PSY 4600	Industrial Psychology . . . . .	3
PSY 4740	Assessment and Intervention with Law Offenders . . . . .	3
PSY 4000	Special Projects in Psy. . . . .	1-3
PSY 4180	Seminar in Psychology . . . . .	1-3

#### MINOR REQUIREMENTS . . . . . 18-25

**GENERAL EDUCATION REQUIREMENTS** (pages 34-43) In the major, PSY 1100 fulfills 3 s.h. of Div. II B . . . . . 45

**FREE ELECTIVES** . . . . . 12-19

**MINIMUM TOTAL** . . . . . 124

### PSYCHOLOGY

Minor for a Bachelor's Degree

UCM does not confer teacher certification for this minor.  
(748)

Sem. Hours

#### MINOR REQUIREMENTS . . . . . 21

PSY 1100	General Psychology . . . . .	3
Electives in Psychology . . . . .		18

**GENERAL EDUCATION REQUIREMENTS** (pages 34-43) In the minor, PSY 1100 fulfills 3 s.h. of Div. II B.

### Special Projects

**PSY 4000 Special Projects in Psychology (1-3)** Individual or group study of problems in special areas of interest. *May be repeated for a maximum of 5 semester hours.* Prerequisites: PSY 1100 and junior standing.

### General-Experimental Psychology

**PSY 1100 General Psychology (3)** A general introduction to the science of behavior, surveying the broad field of psychology and the methods of investigation.

**PSY 2110 Research Design and Analysis I (4)** Rationale and methods for designing, conducting, and analyzing research. PSY 2120 must be taken the following semester. Includes scheduled lab. Prerequisite: PSY 1100.

**PSY 2120 Research Design and Analysis II (4)** Rationale and methods for designing, conducting, and analyzing research. Continuation of PSY 2110. Includes scheduled lab. Prerequisite: PSY 2110.

**PSY 2130 Learning (3)** A basic course for students planning to major in psychology. Emphasis on fundamental concepts and theoretical approaches to learning. Prerequisite: PSY 1100.

**PSY 3110 Motivation (3)** Consideration of the causal factors of human and animal behavior that impel organisms to persist in goal-seeking behavior. Attention is given to the physiological and psychological motives, and the various theoretical positions. Prerequisite: PSY 2130.

**PSY 3130 Physiological Psychology (4)** A survey of the relationship between physiological mechanisms and behavior. Course includes scheduled laboratory. Prerequisite: PSY 1100 and junior standing. An additional fee is associated with this course.

**PSY 4110 Systems of Psychology\* (3)** Capstone course for Psychology majors, including assessment of outcomes for the major. Various systems of Psychology as they affect contemporary Psychology. Prerequisites: PSY 2120, PSY 2130, PSY 3130, PSY 3220, PSY 3340, and PSY 4440; PSY 4310 or concurrently. \*Not available for graduate credit.

**PSY 4130 Sensation and Perception (3)** Relationship between sensory occurrences and the experiences of the person. Prerequisite: PSY 1100 and junior standing.

**PSY 4150 Cognitive Psychology (3)** An overview of current theories of processes involved in human thinking with emphasis on models of memory, information processing, language and mental representations. Only offered Spring semester. Prerequisites: PSY 1100 and junior standing.

**PSY 4180 Seminar in Psychology (1-3)** Selected issues not covered in theory-practicum courses. *May be repeated for a maximum of 6 semester hours.* Prerequisites: PSY 1100 and junior standing.

### Developmental

**PSY 2220 Child Psychology (3)** Interaction of biological and environmental factors in the growth of the child from conception to maturity. Prerequisite: PSY 1100 or EDCI 2240.

**PSY 3220 Life-Span Development (3)** Theories of development, universal features of human development and its individual variations throughout the life-span of the individual. Prerequisite: PSY 1100 or EDCI 2240.

**PSY 4200 Psychology of Exceptional Children (2)** The identification, care, treatment, and guidance of exceptional children. Prerequisite: EDCI 2240.

**PSY 4230 Psychology of Adolescence (3)** Developmental factors and problems common to the period from puberty to adulthood with emphasis upon conditions leading to optimal development. Prerequisites: PSY 1100 or PSY 2240; and junior standing.

**PSY 4240 Psychology of Aging (3)** Introduces psychological problems of aged population including: physical functioning, age changes in perception, memory, learning, problem solving, personality, environmental influences, death and dying. Prerequisites: PSY 1100 and junior standing.

### Personality-Social Psychology

**PSY 1320 Psychology of Personal Adjustment (3)** A general overview of major theories, concepts, and principles in psychology that can be applied to issues of personal and social adjustment.

**PSY 3340 Social Psychology (3)** Analysis of individual behavior in the social setting. Prerequisite: PSY 1100 and junior standing.

**PSY 4310 Theories of Personality (3)** Major theories of personality, past and present. Prerequisite: PSY 1100 and senior standing.

**PSY 4320 Psychology of Women (2)** An overview of the theories of personality as applied to women, biological determinants of feminine behavior, the dynamics of sex-role development, and the psychological implications of traditional versus modern roles for women.

Prerequisites: PSY 1100 and junior standing.

**PSY 4330 Multicultural Psychology (3)** This knowledge-based course is an introduction to cultural and minority status issues in psychology and the role of multicultural issues in mainstream research.

### Clinical Psychology

**PSY 4440 Abnormal Psychology (3)** A descriptive course dealing with the etiology, diagnosis, and treatment of mental disorders of functional and organic origin. Prerequisite: PSY 1100 and junior standing.

### Psychometrics

**PSY 4500 Introduction to Psychological Measurement (3)** An introduction to the basic psychometric theory, concepts, and procedures; familiarization with the major instruments in the field. Course includes scheduled laboratory. Prerequisites: PSY 2110 and junior standing.

**PSY 4520 Statistics for the Behavioral Sciences (3)** Basic statistical methods. The techniques used to analyze frequency distributions, correlations, and tests of significance. Course includes scheduled laboratory.

### Industrial Psychology

**PSY 4600 Industrial Psychology (3)** Application of psychological principles and methods to the industrial setting. Only offered Spring semester. Prerequisites: PSY 1100 and junior standing.

### Rehabilitation

**PSY 4720 Rehabilitation of the Mentally Retarded and Emotionally Disturbed (3)** Basic principles and practical approaches to the rehabilitation of mentally retarded or handicapped and emotionally disturbed clients. Prerequisites: PSY 1100 and 6 semesters hours of psychology.

**PSY 4730 Cognitive-Behavioral Intervention (3)** Psychological, social, and vocational characteristics of the human services client with special attention to counseling theory and effective communication techniques. Prerequisite: PSY 1100 and junior standing.

**PSY 4740 Assessment and Intervention with Law Offenders (3)** History and philosophy of penology, theories of criminal personality, and rehabilitation procedures; course will include theory and practical work experience. Prerequisites: PSY 1100 or CJ 1000 or SOC 3890; and junior standing.

**PSY 4770 Medical Aspects of Disability (3)** A basic medical information course which examines various disabling conditions as they relate to vocational placement and the rehabilitation process.

## Theatre

Sem. Hours

In the Department of Theatre, the second digit in the course number stands for the following: 1-Interpretation, 2-Children's Theatre, 3-Production, 4-History and Literature, 5-Acting, 6-Crafts, 7-Directing, 8-Playwriting, 9-General.

### SPEECH COMMUNICATION AND THEATRE

Major, Bachelor of Science in Education Degree

Certification to teach speech and theatre in grades 9-12 (41-362)

	Sem. Hours
<b>CORE REQUIREMENTS</b> .....	<b>21</b>
THEA 1500 Acting .....	3
THEA 1600 Stagecraft .....	3
THEA 3700 Directing .....	3
COMM 2100 Introduction to Comm. Theory .....	3
COMM 2330 Small Group Communication .....	3
COMM 2340 Argumentation & Debate .....	3
COMM 3325 Nonverbal Communication .....	2
COMM 3390 Forensics .....	1

### Theatre Major Option

Bachelor of Science in Education Degree

The graduate with a Speech Communication and Theatre Bachelor of Science in Education degree (with a Theatre Major Option) will use the knowledge and skills obtained in the program to:

- Teach essential elements of speech communication and theatre at secondary school levels.
- Communicate and collaborate effectively in the interactive and creative process of theatre.
- Demonstrate a working knowledge of the historical, cultural, and stylistic dimensions of drama and theatre.
- Utilize critical thinking skills in order to analyze and interpret a script for the purpose of developing a concept and systematic plan for the production of a play.
- Form, communicate, and defend value judgments about quality and aesthetics in works of theatre.
- Demonstrate technical proficiency in the areas of acting and directing in order to create and present theatrical performances.
- Demonstrate a basic proficiency in the areas of theatre design and technology in order to create and present theatrical productions.
- Technical direct and direct one-act plays for public performance and successfully fulfill significant production assignments in the department's mainstage and/or children's theatre series.

**MAJOR REQUIREMENTS** ..... 36

**Core Requirements** ..... 21

THEA 4400 Lit. & History of the Theatre I .....	3
THEA 4420 Lit. & History of the Theatre II .....	3
THEA 2610 Design Fundamentals .....	3
THEA 3630 Studio Theatre I .....	1
THEA 4730 Studio Theatre II .....	1
Electives in THEA or COMM .....	4

**MINOR REQUIREMENTS** ..... 18-25

**GENERAL EDUCATION REQUIREMENTS** (pages 34-43) In the major, THEA 1100 fulfills 3 s.h. of Div. I B; in the professional education requirements, ICAP 4468 fulfills 3 s.h. of Div. IV B ..... 42

Secondary Education students must have one course in a physical or earth science and one in a biological science in Div. II A.

THEA 1100 Div. I B (required) .....	3
HIST 1350 Div. II B or	
HIST 1351 Div. II B (required) .....	3
POLS 1510 Div. II B (required) .....	3
THEA 2400 Div. II C (required) .....	3
PSY 4230 Psy. of Adolescence .....	3

Secondary Education students will be allowed to substitute PSY 4230 to fulfill 3 s.h. in Div. III.

**PROFESSIONAL EDUCATION REQUIREMENTS** (page 115) ..... 28

**MINIMUM TOTAL** ..... 124

### SPEECH COMMUNICATION

Major Option, Bachelor of Science in Education Degree

See requirements as outlined in the Department of Communication.

### SPEECH COMMUNICATION AND THEATRE

Minor, Bachelor of Science in Education Degree

Certification to teach speech and theatre in grades 5-9 with a middle school-junior high major.

Elementary education functional majors 1-6 may use this as an area of concentration.

(363)

Sem. Hours

**MINOR REQUIREMENTS** ..... 21

THEA 1500 Acting .....	3
THEA 1600 Stagecraft .....	3
THEA 3700 Directing .....	3
COMM 2100 Foundations of Comm. Theory .....	3
COMM 2330 Small Group Communication .....	3
COMM 2340 Argumentation & Debate .....	3
Elective in THEA or COMM .....	3

### THEATRE

Major, Bachelor of Arts Degree

(42-364)

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

- Communicate and collaborate effectively in the interactive and creative process of theatre.
- Demonstrate a working knowledge of the historical, cultural, and stylistic dimensions of drama and theatre.
- Utilize critical thinking skills in order to analyze and interpret a script for the purpose of developing a concept and systematic plan for the production of a play.
- Form, communicate, and defend value judgments about quality and aesthetics in works of theatre.
- Demonstrate technical proficiency in the areas of acting and directing in order to create and present theatrical performances.
- Demonstrate a basic proficiency in the areas of theatre design and technology in order to create and present theatrical productions.
- Technical direct and direct one-act plays for public performance and successfully fulfill significant production assignments in the department's mainstage and/or children's theatre series.

	Sem. Hours	
<b>MAJOR REQUIREMENTS</b> . . . . .		<b>35</b>
THEA 1400 Script Analysis . . . . .	3	
THEA 1500 Acting . . . . .	3	
THEA 1510 Stage Movement . . . . .	3	
THEA 1520 Stage Voice . . . . .	3	
THEA 1600 Stagecraft . . . . .	3	
THEA 2610 Design Fundamentals . . . . .	3	
THEA 3630 Studio Theatre I . . . . .	1	
THEA 3700 Directing . . . . .	3	
THEA 4730 Studio Theatre II . . . . .	1	
THEA 4400 Lit. & History of the Theatre I . . . . .	3	
THEA 4420 Lit. & History of the Theatre II . . . . .	3	
THEA 3600 Scenic Design, 3 or		
THEA 3610 Costume Design, 3 or		
THEA 3620 Lighting Design, 3 . . . . .	3	
Electives in theatre . . . . .	3	
<b>MINOR REQUIREMENTS</b> . . . . .		<b>18-25</b>
<b>GENERAL EDUCATION REQUIREMENTS</b> (pages 34-43) . . . . .		<b>48</b>
THEA 1100 Div. IB (required) . . . . .	3	
IGEN Div.IVA (required)		
IGEN 3116 3 or		
IGEN 3224 3 or		
IGEN 3232 3 or		
IGEN 4234 3 or		
IGEN 4244 3, . . . . .	3	
<b>MODERN LANGUAGE REQUIREMENT</b> . . . . .		<b>3-9</b>
Refer to Bachelor's Degree Requirements section for fulfillment options.		
<b>FREE ELECTIVES</b> . . . . .		<b>13-20</b>
<b>MINIMUM TOTAL</b> . . . . .		<b>124</b>

**THEATRE**

**Functional Major, Bachelor of Fine Arts Degree (47-366)**

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

- Communicate and collaborate effectively in the interactive and creative process of theatre.
- Demonstrate a working knowledge of the historical, cultural, and stylistic dimensions of drama and theatre.
- Utilize critical thinking skills in order to analyze and interpret a script for the purpose of developing a concept and systematic plan for the production of a play.
- Form, communicate, and defend value judgments about quality and aesthetics in works of theatre.
- Demonstrate technical proficiency in the areas of acting and directing in order to create and present theatrical performances.
- Demonstrate a basic proficiency in the areas of theatre design and technology in order to create and present theatrical productions.
- Technical direct and direct one-act plays for public performance and successfully fulfill significant production assignments in the department's mainstage and/or children's theatre series.

	Sem. Hours	
<b>FUNCTIONAL MAJOR REQUIREMENTS</b> . . . . .		<b>66</b>
THEA 4300 Professional Practices . . . . .	3	
THEA 4310 Principles of Theatre Management . . . . .	3	
THEA 1400 Script Analysis . . . . .	3	
THEA 4400 Lit. & History of the Theatre I . . . . .	3	
THEA 4420 Lit. & History of the Theatre II . . . . .	3	
THEA 1500 Acting . . . . .	3	
THEA 1600 Stagecraft . . . . .	3	
THEA 2610 Design Fundamentals . . . . .	3	
THEA 3630 Studio Theatre I . . . . .	1	
THEA 3700 Directing . . . . .	3	
THEA 4730 Studio Theatre II . . . . .	1	
THEA 4910 Senior Showcase . . . . .	1	
Elect one of the following concentrations . . . . .	27	

		Performance
THEA 1510 Stage Movement . . . . .	3	
THEA 1520 Stage Voice . . . . .	3	
THEA 1610 Stage Make-Up . . . . .	3	
THEA 4710 Advanced Directing . . . . .	3	
Elect 6 hours from the following . . . . .	6	
THEA 3500 Advanced Scene Study . . . . .	3	
THEA 4500 Advanced Acting . . . . .	3	
THEA 4510 Period Acting Styles . . . . .	3	
Electives from the Design/Technology concentration listing . . . . .	9	

		Design / Technology
THEA 2620 Costume Technology . . . . .	3	
THEA 3600 Scene Design . . . . .	3	
THEA 3610 Costume Design . . . . .	3	
THEA 3620 Lighting Design . . . . .	3	
THEA 4600 Advanced Technical Theatre . . . . .	3	
THEA 4610 Adv. Stage Lighting & Sound . . . . .	3	
Electives from the Performance concentration listing . . . . .	9	
Departmentally approved supporting courses . . . . .	9	
<b>MINOR NOT REQUIRED</b>		
<b>GENERAL EDUCATION REQUIREMENTS</b> (pages 34-43) . . . . .		<b>48</b>
THEA 1100 Div. IB (required) . . . . .	3	
IGEN Div.IVA (required)		
IGEN 3116 3 or		
IGEN 3224 3 or		
IGEN 3232 3 or		
IGEN 4234 3 or		
IGEN 4244 3, . . . . .	3	
<b>FREE ELECTIVES</b> . . . . .		<b>10</b>
<b>MINIMUM TOTAL</b> . . . . .		<b>124</b>

**THEATRE**

**Minor for a Bachelor's Degree**

UCM does not confer teacher certification for this minor (365)

		Sem. Hours
<b>MINOR REQUIREMENTS</b> . . . . .		<b>23</b>
THEA 1100 Oral Interpretation . . . . .	3	
THEA 1400 Script Analysis . . . . .	3	
THEA 1500 Acting . . . . .	3	
THEA 1600 Stagecraft . . . . .	3	
THEA 3700 Directing . . . . .	3	
THEA 4400 Lit. & History of the Theatre I, 3 or		
THEA 4420 Lit. & History of the Theatre II, 3 . . . . .	3	
Electives in theatre . . . . .	5	

**GENERAL EDUCATION REQUIREMENTS** (pages 34-43) In the minor, THEA 1100 fulfills 3 s.h. of Div. I B.

**Interpretation**

**THEA 1100 Oral Interpretation (3)** Skills used to convey the intellectual, emotional, and aesthetic values of literature to an audience.

**Children's Theatre**

**THEA 3220 Children's Theatre (3)** The study and practice of producing plays for a children's audience. Only offered Spring semester.

**Production**

**THEA 4300 Professional Practices (1-6)** Extended, supervised experiences in any phase of theatre production. Credit allowed will depend upon the nature and scope of the assignment. *May be repeated for a maximum of 10 semester hours.* Prerequisite: consent.

**THEA 4310 Principles of Theatre Management (3)** An in-depth examination of the business theories and practices in modern educational, community, and professional theatre. Box office and publicity work are required.



### History and Literature

**THEA 1400 Script Analysis (3)** Structural and performance dimensions of the playscript. It will focus on the role of the various theatrical artists in developing an effective methodology and application for translating the playwright's script into a public performance.

**THEA 2400 Theatre in Western Civilization (3)** An introductory examination of the various contemporary theatre arts with a survey of the drama and the developments of major theatrical periods in western civilization.

**THEA 4400 Literature and History of the Theatre I (3)** Works and writers for the stage from the beginning to 1700. The development of theatrical modes and presentation and their influences upon the drama of each period. Only offered Fall semester.

**THEA 4420 Literature and History of the Theatre II (3)** Works and writers for the stage from 1700 to the present. The development of theatrical modes and presentation and their influences upon the drama of each period. Only offered Spring semester.

### Acting

**THEA 1500 Acting (3)** An extensive study in the theories and techniques of acting.

**THEA 1510 Stage Movement (3)** An extensive study of the body's use in theatrical performance; this class will work with expanding the imagination of bodily expression.

**THEA 1520 Stage Voice (3)** Course is designed to improve and enhance the skills necessary for excellent stage vocal production. Exercises will focus on breath, resonance, articulation and speech dynamics.

**THEA 3500 Advanced Scene Study (3)** The course is designed to enhance the actor's proficiency with character development within the genre of realism. Prerequisite: THEA 1500.

**THEA 4500 Advanced Acting (3)** An intensified study of characterization centering around the study of difficult roles, and the adaptation of acting techniques to various styles of acting. *May be repeated for a maximum of 6 credit hours.* Prerequisite: THEA 1500.

**THEA 4510 Period Acting Styles (3)** Examines the craft, methodology, resources and practice of acting in non-realistic (classical and contemporary) dramatic literature. Emphasis on analysis of stylistic determinants in dramatic literature. *May be repeated for a maximum of 6 hours.*

### Crafts

**THEA 1600 Stagecraft (3)** Lectures and laboratory experiences in the construction, painting, rigging and shifting of stage scenery. Scene shop work arranged as a portion of the course.

**THEA 1610 Stage Make-up (3)** Materials and methods of application of make-up artistry for cosmetic and character effects on stage.

**THEA 2610 Design Fundamentals (3)** Survey of the concepts, applications, and techniques of theatrical design through study of the design areas in lighting, costume, scenic, make-up, hair, sound and properties.

**THEA 2620 Costume Technology (3)** Lectures and laboratory experience in sewing, fabric modification, and the craftwork of costume construction. An additional fee is associated with this course.

**THEA 3610 Costume Design (3)** Theory and practice of costume design as applied to theatrical, musical and operatic productions of live theatre.

**THEA 3620 Lighting Design (3)** Theory and practice of lighting design as it applies to the modern theatrical performance.

**THEA 3630 Studio Theatre I (1)** Technical direction of a play in the Studio Theatre series at approximately the junior class level. Prerequisites: THEA 1500, THEA 1600, THEA 3700 and departmental consent.

**THEA 4600 Advanced Technical Theatre (3)** Advanced techniques in scenery construction and painting, plastics, and selection of stage equipment. Laboratory exercises will be required. Prerequisite: THEA 1600.

**THEA 4610 Advanced Stage Lighting and Sound (3)** Extensive investigation of stage lighting history and practices in the modern theatre and the study and use of live and recorded sound as a theatrical art. Only offered Fall semester. Prerequisite: THEA 1600.

### Directing

**THEA 3700 Directing (3)** Problems, principles, and employment of various directing styles, and the adaptation of directing techniques to various physical facilities. Prerequisites: THEA 1500 and THEA 1600.

**THEA 4710 Advanced Directing (3)** Extensive examination of special directing problems with comedy, tragedy, period drama, and the musical show in arena and proscenium theatres. *May be repeated for a maximum of 6 credit hours.* Prerequisite: THEA 3700.

**THEA 4730 Studio Theatre II\* (1)** Direction of a play in the Studio Theatre series at approximately the senior class level. Prerequisite: THEA 3630 and departmental consent. \*Not available for graduate credit.

### Playwriting

**THEA 4800 Playwriting (1-3)** Dramatic writing, dramatic theory, style dialogue exercises, characterization, with opportunity for the production of student plays. *May be repeated for a maximum of 3 semester hours.*

### General

**THEA 1900 Theatre Practicum (1)** Supervised work on selected problems in play direction, acting, scene design, scene construction, stage lighting, and business management. *May be repeated for a maximum of 3 semester hours.* Prerequisite: consent.

**THEA 3900 Special Topics in Theatre (1-3)** Individual study and research on topics that are of special interest to the student. *May be repeated for a maximum of 6 semester hours.* Prerequisite: consent.

**THEA 4900 Repertory Theatre (3)** Practical experience in theatre through participation in a summer repertory season of plays as an actor, a technician, or management personnel. *May be repeated for a maximum of 6 semester hours.* Prerequisite: enrollment by department approval only.

**THEA 4910 Senior Showcase (1)** Senior Theatre Majors will present a public showcase performance or portfolio presentation. Course is part of the formative assessment process within Theatre Department.

**THEA 4920 Secondary Field Experience II\* (1)** Experiences in the secondary school classroom that provide the teacher candidate more advanced involvement in the teaching-learning process. Prerequisites: admission to Teacher Education Program; should be taken concurrently with THEA 4984 during the Professional Semester. \*Not available for graduate credit.

**THEA 4984 Methods of Teaching Speech and Theatre\* (2)** Prerequisites: admission to Teacher Education Program; double majors must take a methods course for each major; methods should be taken concurrently with THEA 4920 during the Professional Semester. \*Not available for graduate credit.

## Harmon College of Business Administration

In the Harmon College of Business Administration, the second digit in the course number stands for the following: 0-Economics, 1-Accounting, 2-Business Education, 3-Management, 4-Marketing, 5-Office Administration, 6-Computer Information Systems, 7-Business Law, 8-Finance, 9-Human Resource Management.

### Accreditation

The Harmon College of Business Administration and the Accounting program are accredited by AACSB International located at 777 South Harbour Island Boulevard, Suite 750, Tampa, FL 33602; phone 813-769-6500; webpage <http://www.aacsb.edu>.

### Bachelor of Science in Business Administration Degree Program Statement of Policy

#### College Mission.

The mission of the Harmon College of Business Administration is to provide quality teaching and learning for students from the University's historical 21 county service area preparing to enter careers in business. To accomplish this task the College:

- Primarily provides undergraduate degree programs in business.
- Provides instruction for undergraduate students in other disciplines who desire to learn about business.
- Provides selected graduate degree programs and instruction to prepare students for professional certifications.
- Maintains a curriculum that reflects the current business environment.
- Seeks students from outside of the service area, including international student enrollment, to enhance diversity.
- Supports the state-wide university mission in technology through selected business-related programs.
- Offers domestic and international internship opportunities.
- Provides opportunities for entrepreneurial education and experience.
- Employs hands-on, technologically enhanced, and outcomes driven pedagogy.
- Expects faculty to engage in applied and instructional research while recognizing the contribution of basic research.

A supporting mission is to provide meaningful service to the University, area community, and citizens of Missouri. To accomplish this task the college:

- Values and recognizes faculty and student contributions to the University and society.
- Encourages active faculty participation in their respective professions
- Sponsors the Institute for Entrepreneurial Development to train and advise small businesses in the state.

Admission to B.S.B.A. Programs.\* Acceptance and registration in business administration courses or the declaration of intent to complete a business major do not guarantee admission to the B.S.B.A. programs. A student is not officially admitted to the HCBA until he/she is notified in writing by a representative of the HCBA. Only those students who have applied for admission to a program in the HCBA may file an application for graduation for the B.S.B.A. degree.

\*Students seeking a Bachelor of Science in Education degree with a major in business education must meet requirements of the College of Education and Human Services for admission to the professional sequence.

The desire of the faculty in the HCBA is for all UCM students to succeed. To facilitate and support (1) overall academic program quality, (2) student progress through his/her academic program at the desired rate and (3) to better ensure receiving the maximum benefit from the curriculum design, students who desire to earn a B.S.B.A. degree are to enroll and take courses that are specifically designed for their academic classification. This means that freshmen (those who have completed 0-29.5 semester hours of college credit) who take courses within the HCBA will enroll in 1000 level courses only, sophomores (completed 30-59.5 semester hours) will enroll in 2000 or 1000 level courses, juniors (completed 60-89.5 semester hours) will enroll in 3000, 2000, or 1000 level courses and seniors (all

students who have completed 90 semester hours) will enroll in 4000 level courses or below.

All UCM students enrolled in business and economics courses are required to comply with prerequisites for those courses.

Students who have not been admitted to a B.S.B.A. degree program may not enroll in more than a total of 30 semester hours in courses with the following prefixes: ACCT, CIS, FIN, HRM, MKT, MGT.\*\* \*\*Deviations from this limit must be approved in writing by the dean of the Harmon College of Business Administration.

### Bachelor of Science in Business Administration Admission Requirements.

UCM students who desire to graduate with a B.S.B.A. degree should declare themselves to be pre-business majors upon enrollment at the University. Admission to all B.S.B.A. degree programs is conditional upon the completion of the departmental requirements and the following prerequisites:

1. A minimum of 41 semester hours of credit including the following pre-admission courses:
 

ACCT 2101	Principles of Financial Accounting	. . . . 3
ACCT 2102	Principles of Managerial Accounting	. . . . 3
BTE 1210	Essentials of Managing Information	. . . . 2
ECON 1010	Principles of Macroeconomics	. . . . . 3
ECON 1011	Principles of Microeconomics	. . . . . 3
FIN 2801	Business Statistics I	. . . . . 3
BLAW 2720	Legal Environment of Business	. . . . . 3
MATH 1111	College Algebra	. . . . . 3
2. Attainment of a 2.25 (or above) grade-point average on a scale of 4.00 for credit hours completed at UCM and elsewhere and attainment of 2.25 (or above) grade-point on the 23 semester hours of pre-admission courses.
3. Transfer students from other colleges and universities must meet all degree program admission requirements. Transfer students may take appropriate additional course work to fulfill admission requirements.
4. A student applies for admission at the HCBA Office of the Dean (Ward Edwards 1600). The admission process should be initiated prior to fulfillment of all admission requirements.
5. All students pursuing a B.S.B.A. Degree must take and pass the College-BASE for General Education before they may be officially admitted to the degree program.

### Additional Bachelor of Science in Business Administration Graduation Requirements.

In addition to specified major and other requirements, all students graduating with a B.S.B.A. degree must satisfy the following requirements:

1. Students are required to earn at least 50 percent of their required business credit hours for a B.S.B.A. degree at UCM.
2. Students must achieve a minimum cumulative grade-point average of 2.25.

#### Transfer of Credit.

Students planning to transfer to UCM should expect to complete most major business courses during their junior and senior years. A student from a two-year or four-year institution may transfer pre-admission courses equivalent to those required for the B.S.B.A. degree at UCM. Transfer students from four-year institutions should obtain transfer information from the academic department offering the major.

Upper division courses (courses at the 3000 and 4000 level) cannot generally be transferred from a two-year institution and applied to a B.S.B.A. degree. However, the department chair responsible for the UCM course may elect to allow such a transfer for equivalent credit. Before the department chair may accept the transfer course for equivalent credit, the course must be "validated" through a departmentally administered examination or successful completion of a more advanced course in the discipline.

The specific validation requirement to be applied will be designated by the department chair. The validation policy for the HCBA is consistent with policies and guidelines at comparable business schools and is in effect for all students desiring to transfer courses completed at a community or junior college. Upper division course work transferred from a four-year institution must be reviewed by the department chair before such work can be applied to a B.S.B.A. degree. The department chair may choose to apply the validation requirement to such transfers.

### Bachelor of Science in Business Administration Core Courses.

All B.S.B.A. degree program students are required to successfully complete carefully selected and designed 3000 and 4000 level business core courses. Students may enroll in 3000 level core courses after successfully completing 59.5 semester hours and may enroll in 4000 level core courses after successfully completing 89.5 semester hours. Prerequisite course requirements are to be complied with at all levels of the core and in other UCM business and economics courses. Exception to these rules concerning core courses may be granted by the chair of the department in the HCBA in which the course is offered. HCBA 3000 and 4000 level core courses are listed as an integral part of departmental academic programs. Please refer to the following pages of this section of the UCM catalog for a complete listing of core and major courses required by the faculty in each department in the HCBA.

The Harmon College of Business Administration intends to provide equal opportunities for all through careful blending of human and financial resources. By accentuating growth in the capabilities of people, the College seeks to improve the quality of life for each individual in the region served.

### The HCBA Integrative Business Experience (IBE)

Harmon College of Business students at the University of Central Missouri have the option to participate in a program that links their learning to a real-world experience. (This program is required for Management majors.) This program, called the Integrative Business Experience (IBE), was inspired by the MG101 program at Bucknell (Miller, 1991) and the Integrated Business Core (IBCC) (Michaelson, 1999) program at the University of Oklahoma. IBE students will be required to create and manage two significant enterprises: an actual start-up company and a hands-on community service project. Thus, IBE students will have the opportunity to: 1) develop interpersonal and group-interaction skills in a work-like setting, and 2) learn from their experience of trying to apply key business concepts and analytical tools to solve a wide range of unstructured, but very real problems.

Participation in the IBE option, which will typically occur during the first semester of the junior year, will require students to enroll in a four-course block that includes three required junior-level core business courses and an Entrepreneurship and Community Service Practicum course\*. The link between learning and experience occurs because the content coverage and many of the assignments in the core courses will be specifically sequenced to support students in organizing and managing their business and service ventures. As a result, IBE students will develop a clear "big-picture" understanding of business operations because, on an ongoing basis, they will be using concepts and tools from all three core courses to guide their decisions in the business and service organizations.

#### IBE Program Elements:

1. Students must simultaneously enroll in three required junior-level core business courses; Management, Marketing, and Information Systems (Marketing - MKT 3405, Management - MGT 3315, and Information Systems - CIS 3630) plus a three-hour Entrepreneurship and Community Service Practicum (MGT 3385, MKT 3485 or CIS 3685). Students will be responsible for mastering the concepts and terminology of each of the functional area core courses.
2. Students will learn in classes in which the instruction is delivered using Team-Based Learning®. Thus, instead of listening to lectures, most of their in-class time is spent working in a 7-member learning team that remains stable across the core courses for the entire semester.

3. Students will work as an "employee" of a 35-member company that becomes a "laboratory" in which they apply concepts from the core business disciplines as they engage in two ventures - a start-up business and a service project on behalf of a non-profit community organization.
4. Students will spend the first 7 weeks developing a business plan for a start-up company whose profits will finance a hands-on community service project. The plan will then be presented to a loan review committee (First Community Bank officers and local entrepreneurs) to obtain the capital (real money up to \$5,000) needed to implement their plan.
5. Students will implement their business plan (i.e., they have 6-7 weeks to do enough business to pay off their loan and expenses and generate enough profit to finance their service work).
6. Students will create a program portfolio that contains reflections on their experience and includes a set of "artifacts" that will enable them to communicate their learnings to potential employers.

#### References

- Michaelson, L. K. (1999). Integrating the Core Business Curriculum: An Experience-based Solution. *Selections*, 15 (2), 9-17.
- Miller, J. A. (1991) Experiencing Management: A Comprehensive, "Hands-on" Model for the Introductory Management Course. *Journal of Management Education*, 15 (2), 151-173.
- Shinn, Sharon (2003). Junior Executives. *BizEd* 2(4) May/June, 48-51.
- Turk, Randall (2002). Risky Business. *Sooner Magazine*, 22(2), 22-26.

#### For Additional Information on Team-Based Learning IBE, and IBC

Contact Dr. Larry K. Michaelson, Professor of Management at [lmichaelson@ucmo.edu](mailto:lmichaelson@ucmo.edu) (660) 543-4124 or visit [www.teambasedlearning.org](http://www.teambasedlearning.org), [www.ucmoibe.org](http://www.ucmoibe.org) and/or [www.ou.edu/org/ibcore](http://www.ou.edu/org/ibcore).

\*Enrollment in IBE is limited and will be on a first-come first-enrolled basis.

## Accounting

### Department of Accounting Statement of Policy

For admission to the accounting major, a student must have a cumulative GPA (4.00 scale) of 2.65 or higher on all completed undergraduate college credit and a GPA of 2.65 (or above) on the 23 semester hours of HCBA preadmission courses. Any exceptions to this policy must be approved by the Accounting Department Chair.

A minimum grade of C must be earned in the following courses if they are to be applied toward the fulfillment of an accounting functional major or minor: ACCT 2101, ACCT 2102, ACCT 2110, ACCT 3111, ACCT 3112, ACCT 3120, ACCT 3130, and ACCT 3160.

Completion of the departmental exit examination is a graduation requirement for the accounting functional major.

A student with an accounting functional major or minor may enroll in a course offered by the Department of Accounting only if a grade of at least C is earned in each of the course's accounting prerequisites.

## ACCOUNTING

### Functional Major, Bachelor of Science in Business Administration Degree

(46-501)

The graduate with a B.S.B.A. degree with a major in Accounting will use the knowledge and skill obtained in the program to:

- Read, listen, write, and speak at the level expected of a beginning accountant.
- Locate, obtain, and organize financial information.
- Identify and solve unstructured problems in a business setting.
- Work in groups and provide leadership.
- Integrate general knowledge of the flow of ideas and events in history, cultural differences, socio-political forces, mathematics, aesthetics, and economics into his/her everyday decisions.
- Understand organizations and how they change.
- Recognize the roles that technology and international commerce play in today's business environment.

- Use the common body of accounting knowledge to solve real-world accounting problems.
- Participate in the accounting profession and make value-based judgments in his/her business and professional lives.

Sem. Hours

<b>FUNCTIONAL MAJOR REQUIREMENTS</b> . . . . .	<b>66</b>
*ACCT 2101 Principles of Financial Acct. . . . .	3
*ACCT 2102 Principles of Managerial Acct. . . . .	3
ACCT 2110 Microcomputer Appl. in Acct. . . . .	3
ACCT 3111 Inter. Financial Accounting I . . . . .	3
ACCT 3112 Inter. Financial Accounting II . . . . .	3
ACCT 3120 Cost & Managerial Accounting . . . . .	3
ACCT 3130 Introduction to Income Tax . . . . .	3
ACCT 3160 Acct. Information Systems . . . . .	3
ACCT 4100 Advanced Accounting I . . . . .	3
ACCT 4105 Auditing . . . . .	3
*ECON 1011 Principles of Microeconomics . . . . .	3
*FIN 2801 Business Statistics I . . . . .	3
FIN 3801 Business Statistics II . . . . .	3
FIN 3850 Principles of Finance . . . . .	3
MGT 3315 Management of Organizations . . . . .	3
MGT 3325 Business Communications . . . . .	3
MGT 3360 Production/Operations Mgt. . . . .	3
MKT 3405 Marketing Policy . . . . .	3
*BLAW 2720 Legal Environment of Business . . . . .	3
BLAW 3721 Law of Business Transactions . . . . .	3
**Accounting and Business Elective . . . . .	6

**MINOR NOT REQUIRED**

<b>GENERAL EDUCATION REQUIREMENTS</b> (pages 34-43) . . . . .	<b>48</b>
COMM 1000 Div. I B (required) . . . . .	3
*MATH 1111 Div. I C (required) . . . . .	3
*BTE 1210 Div. II A (required) . . . . .	2
*ECON 1010 Div. II B (required) . . . . .	3
PSY 1100 Div. II B or	
SOC 1800 Div. II B (required) . . . . .	3
ICAP 4357 Div. IV B (required) . . . . .	3

**ELECTIVES OUTSIDE OF THE HARMON COLLEGE OF BUSINESS ADMINISTRATION** . . . . . **8**

**FREE ELECTIVES** . . . . . **2**

This program requires at least 90 hours of courses without the ACCT prefix.

**MINIMUM TOTAL** . . . . . **124**

\*Students expecting to receive the B.S.B.A. Degree must seek admission to this program upon the completion of a minimum of 41 semester hours of credit including ACCT 2101, ACCT 2102, BLAW 2720, BTE 1210, ECON 1010, ECON 1011, FIN 2801, and MATH 1111. See page 95 for the Statement of Policy on Admission to a B.S.B.A. Degree program.

\*\*Electives require approval of the department chair. At least one course must be outside accounting.

**ACCOUNTING**

**Minor for a Bachelor's Degree**

UCM does not confer teacher certification for this minor. (502)

Sem. Hours

<b>MINOR REQUIREMENTS</b> . . . . .	<b>21</b>
ACCT 2101 Principles of Financial Acct. . . . .	3
ACCT 2102 Principles of Managerial Acct. . . . .	3
ACCT 3111 Inter. Financial Accounting I . . . . .	3
ACCT 3112 Inter. Financial Accounting II . . . . .	3
ACCT 3130 Introduction to Income Tax . . . . .	3
ACCT 4100 Advanced Accounting . . . . .	3
Elective in accounting . . . . .	3

**Accounting**

**ACCT 2100 Survey of Accounting (3)** Study of elementary financial and managerial accounting to include the preparation and use of accounting statements and use of accounting information for managerial decisions. Course may not be substituted for ACCT 2101 and/or ACCT 2102. Not available to students with credit in ACCT 2102.

**ACCT 2101 Principles of Financial Accounting (3)** Fundamental principles of financial accounting. The preparation and use of financial accounting records and statements for business organizations.

**ACCT 2102 Principles of Managerial Accounting (3)** Development and use of cost and managerial accounting information for management control and decision making. Prerequisite: ACCT 2101 and MATH 1111 or equivalent.

**ACCT 2110 Microcomputer Applications in Accounting (3)** Use of microcomputer to solve accounting related business problems. Prerequisites: BTE 1210, ACCT 2101; ACCT 2102 taken concurrently or with permission of the department chair.

**ACCT 3111 Intermediate Financial Accounting I (3)** Financial accounting theory and practice applied to selected topics with emphasis on assets and application of generally accepted accounting principles. Prerequisite: ACCT 2101 and ACCT 2110 or permission of department chair.

**ACCT 3112 Intermediate Financial Accounting II (3)** Continuation of financial accounting theory and practice applied to selected topics with emphasis on equities and application of generally accepted accounting principles. Prerequisite: ACCT 3111.

**ACCT 3120 Cost and Managerial Accounting (3)** Application of accounting for managerial decision making, financial reporting and control for business enterprises. Prerequisites: ACCT 2102 and FIN 2801.

**ACCT 3130 Introduction to Income Tax (3)** Federal Income Tax principles and procedures. Determination of gross income, exclusions from gross income, business and nonbusiness deductions. Application of the principles is by the use of actual tax forms.

**ACCT 3135 Internship in Accounting (3-9)** Opportunity for students to gain theoretical knowledge and practical experience within a particular field of specialization. May be taken for pass/fail credit only. Prerequisites: 60 semester hours and overall GPA 2.50 or above or permission of internship supervisor.

**ACCT 3160 Accounting Information Systems (3)** The integration of information flows of various segments of a business into an information system of the total organization. Emphasis areas include accounting aspects of data processing, system security controls, and documentation. Prerequisites: ACCT 2110 and ACCT 3111.

**ACCT 4100 Advanced Accounting I\* (3)** Selected topics including business combinations, consolidations, financial accounting and reporting practices; and accounting and reporting for non-profit entities. Prerequisite: ACCT 3112. \*Not available for graduate credit.

**ACCT 4105 Auditing\* (3)** Study of theory and practice relating to attestation engagements, professional liability and ethics. Prerequisites: ACCT 3112, ACCT 3120, ACCT 3130 and ACCT 3160. \*Not available for graduate credit.

**ACCT 4115 Financial Statement Analysis (3)** Allows students to gain financial statement analytical perspectives required of credit and equity analysts and others impacted by financial statements. Prerequisite: FIN 3850.

**ACCT 4120 Advanced Managerial Accounting (3)** An in-depth analysis of advanced managerial accounting topics and literature. Prerequisite: ACCT 3120.

**ACCT 4130 Advanced Income Tax (3)** Continuation of the study of Federal Income Tax. Consideration of the special treatment received by the various business entities, including a study of partnerships, corporations, estates, and trusts. Prerequisite: ACCT 3130.

**ACCT 4136 Estate Planning (3)** Provides students with the knowledge base and analytical skills needed for effective planning and administration. Prerequisites: ACCT 3130.

**ACCT 4165 Special Projects in Accounting (1-3)** Individualized or group study under the supervision of departmental faculty. May be repeated for a maximum of 6 semester hours. Prerequisite: consent of instructor.

## Computer Information Systems

### COMPUTER INFORMATION SYSTEMS

Functional Major, Bachelor of Science in Business Administration Degree

(46-534)

The graduate with a Bachelor of Science degree in Business Administration with a functional major in Computer Information Systems will use the knowledge and skills obtained in the program to:

- Demonstrate knowledge of professional and ethical expectations in the work place.
- Use productivity software (word processing, spreadsheet, and database) effectively and manage hardware and software resources by applying knowledge of operating systems and environments.
- Develop application software using skills in appropriate business programming languages (e.g. Java, Visual Basic, COBOL).
- Develop and maintain databases using theoretical and applied knowledge of relational database management systems (e.g. Oracle, SQL Server).
- Develop and maintain telecommunications networks using theoretical and applied knowledge of telecommunications (e.g. Novell, Windows/NT).
- Analyze business problems and develop solutions by applying critical thinking skills within the systems development process (e.g. The Systems Development Life Cycle [SDLC], Prototyping).
- Be a team player by applying group process skills; participate fully in group discussion and activities, lead/follow when appropriate; provide support and collaboration when needed.
- Access information resources and communicate effectively using a variety of methods: oral, written, and electronic.
- Design and construct client/server applications by using appropriate tools and architectures and develop effective graphical user interfaces (GUIs).
- Apply project management skills when creating a business solution within an information architecture.

Sem. Hours

#### FUNCTIONAL MAJOR REQUIREMENTS 74-76

CIS 1605	Business Application Software	2
CIS 2605	Programming With Visual Basic.net	3
CIS 2615	Introduction to JAVA	3
CIS 2665	Prin. of Data Comm. & LAN	3
CIS 3630	Management Information Systems	3
CIS 3650	Database Management Systems	3
CIS 3660	Anlys. & Des. of Comp. Infor. Sys.	3
CIS 4690	Systems Architecture & Development.	3
*ACCT 2101	Principles of Financial Acct.	3
*ACCT 2102	Principles of Managerial Acct.	3
*ECON 1011	Principles of Microeconomics	3
*FIN 2801	Business Statistics I	3
FIN 3801	Business Statistics II	3
FIN 3850	Principles of Finance	3
MGT 3315	Management of Organizations	3
MGT 3325	Business Communications	3
MGT 3360	Production/Operations Mgt.	3
MKT 3405	Marketing Policy	3
*BLAW 2720	Legal Environment of Business	3

Three courses from one of the two following tracks 9

#### Software Development

CIS 3670	User Interface Design	3
CIS 4680	Data Resource Mgt.	3
CIS 4660	Appl. Dev. Using JAVA, 3 or	
CIS 4670	Appl. Dev. Using VB.net, 3	3

#### Networking

CIS 3665	Data Comm. Technologies	3
CIS 4665	Data Com. & Dist. Data Proc.	3
CIS 4685	Network Planning, Design & Security	3

Electives 11

(At least 9 hours must be taken from the following)

CIS 3655	COBOL Programming	3
CIS 3695	Intern. in Comp. Infor. Sys.	3

CIS 4610	Special Projects	3
CIS 4635	Seminar in Bus. Comp. Appl.	3
CIS 4655	Software Engineering	3
CIS 4667	Cont. Voice & Data Sys.,	3
CIS 4695	Adv. Prog. in C/C++	3
CIS 3685	Integrative Bus. Exp. Pract., 3 or	
MKT 3485	Integrative Bus. Exp. Pract., 3 or	
MGT 3385	Integrative Bus. Exp. Pract., 3,	3

Any CIS course in the tracks (prerequisites apply).

Any ET courses approved by the department.

#### MINOR NOT REQUIRED

#### GENERAL EDUCATION REQUIREMENTS (pages 34-43) 48

COMM 1000	Div. I B (required)	3
*MATH 1111	Div. I C (required)	3
*BTE 1210	Div. II A (required)	2
*ECON 1010	Div. II B (required)	3
PSY 1100	Div. II B or	
SOC 1800	Div. II B (required)	3
ICAP 4357	Div. IV B (required)	3

#### MINIMUM TOTAL 124

\*Students expecting to receive the B.S.B.A. Degree must seek admission to this program upon the completion of a minimum of 41 semester hours of credit including ACCT 2101, ACCT 2102, BLAW 2720, BTE 1210, ECON 1010, ECON 1011, FIN 2801, and MATH 1111. See page 95 for the Statement of Policy on Admission to a B.S.B.A. Degree program.

### COMPUTER INFORMATION SYSTEMS

Minor for a Bachelor's Degree

UCM does not confer teacher certification for this minor. (535)

Sem. Hours

#### MINOR REQUIREMENTS 22

CIS 1605	Business Application Software	2
CIS 2605	Programming With Visual Basic.net	3
CIS 2615	Introduction to JAVA	3
CIS 2665	Principles of Data Communication & Local Area Networking	3
CIS 3650	Database Mgt. Systems, 3 or	
CIS 3660	Analysis & Design of Computer Information Systems, 3	3
ACCT 2101	Principles of Financial Acct.	3
ACCT 2102	Principles of Managerial Acct.	3
BTE 1210	Essentials of Managing Info.	2

GENERAL EDUCATION REQUIREMENTS (pages 34-43) In the minor, BTE 1210 fulfills 2 s.h. of Div. II A.

### COMPUTER INFORMATION SYSTEMS

Associate in Science Degree

Inquiries about the status of this program should be directed to the chair of the Department of Computer Information Systems.

**CIS 1600 Principles of Computer Information Systems (3)** Provides a working knowledge of computer information systems. Hands-on experience is gained in major microcomputer software packages including operating systems, word processing, spreadsheets, and databases.

**CIS 1601 Business Information Technology (2)** Provides information about information technology related careers, development of group/team building skills, communication skills, and hands-on experience in solving business problems using information technology.

**CIS 1605 Business Application Software (2)** Solving business problems with a Windows-based operating system/environment as well as word processing, presentation software, spreadsheet software, and database applications. Prerequisite: BTE 1210. An additional fee is associated with this course.

**CIS 2605 Programming With Visual Basic.net (3)** Introduces fundamental concepts and implementations of Programming Using Visual Basic.NET. It focuses on Windows form applications covering aspects such as development of Graphic User Interface, control structures In VB.NET, and data processing. The course also covers the object-oriented aspects of programming such as writing classes, using objects, inheritance and polymorphism. Hands-on learning is emphasized with a focus on the development of applications for business problems. An additional fee is associated with this course.

**CIS 2615 Introduction to JAVA (3)** Fundamental principles for the design and implementation of programs using JAVA programming language to develop systems and applications programs. Flexibility portability/platform independence, support for object-orientation and the availability of classes to handle complex programming tasks make JAVA an ideal choice for software development. The course adopts a hands-on approach and entails extensive programming. Prerequisite: CIS 2605. An additional fee is associated with this course.

**CIS 2665 Principles of Data Communications and Local Area Networking (3)** Overview of the fundamental concepts needed to develop and work with a data communications system. Hardware, software, network topology, network design and implementation is covered with a particular emphasis on the application of theory to solving business data communication needs. Prerequisite: CIS 1605.

**CIS 3630 Management Information Systems (3)** This course will focus on topics that help general managers make better Information System and/or Information Technology decisions. Often general managers must participate in the process of integrating IS/IT into the organization, and need knowledge of IS methods to interact with other IS/IT managers and employees effectively. Cases and actual hands-on applications are used to illustrate the importance of aligning end users and information resources with corporate resources and strategy. Ethical issues such as information privacy, access, and accuracy will be included. IBE section will evaluate and present a solution to a real life IT/IS problem, as determined by the IBE company plan. Prerequisites: ACCT 2101, CIS 1605 or ACCT 2110.

**CIS 3650 Database Management Systems (3)** Principles and fundamental concepts of relational database, including relational database design, implementation and management. Special emphasis is placed on data modeling, data normalization, database design and implementation with structured query language (SQL). Prerequisite: CIS 3630. An additional fee is associated with this course.

**CIS 3655 COBOL Programming (3)** Major emphasis on the developing of logical solutions to business problems. The development of programs on on-line terminals with job control and an overview of architecture of the latest IBM systems. Processing business data using COBOL (Common Business Oriented Language) on mainframe IBM systems. Prerequisites: CIS 3650.

**CIS 3660 Analysis and Design of Computer Information Systems (3)** Fundamentals of object-oriented system analysis and design. Using Computer Aided Software Engineering (CASE) tools such as MS Project, IBM Rational RequisitePro and Software Modeler to model the business, capture the requirements, and designing, (and prototyping) a business application. Prerequisite: CIS 2615 and CIS 3630. An additional fee is associated with this course.

**CIS 3665 Data Communication Technologies (3)** Current topics in data communications technology. Topics in wireless and wired technologies supporting personal area, local area and/or wide area networks will be considered. Prerequisite: CIS 2665.

**CIS 3670 User Interface Design (3)** Principles and guidelines for developing interface designs. Foundational theory, the design / development process and testing for web and application software interfaces will be addressed. Prerequisites: CIS 2615 and CIS 3660.

**CIS 3680 Systems Project (1-3)** An independent individual project to be completed by the student. *May be repeated for a maximum of 5 semester hours.* Prerequisite: CIS 3660.

**CIS 3685 Integrative Business Experience Practicum (3)** Students will apply concepts from the concurrent courses to their own start-up business venture and to community service. Corequisites: special sections of MGT 3315, MKT 3405 and CIS 3630. Prerequisites: ACCT 2101 or ACCT 2100, CIS 1605 or ACCT 2110, ECON 1010, ECON 1011.

**CIS 3695 Internship in Computer Information Systems (3-9)** Opportunity for students to gain theoretical knowledge and practical application within a particular field of specialization. May not be taken last semester of senior year. Enrollment normally in 6 or 9 semester hours. *May be repeated for a maximum of 18 semester hours.* Prerequisites: 60 semester hours and overall GPA 2.50 or above or permission of intern program Director.

**CIS 4610 Special Projects (1-3)** Special projects offerings in computer information systems. *May be repeated for a maximum of 6 semester hours.* Prerequisite: consent of instructor. An additional fee is associated with this course.

**CIS 4620 Microcomputer Applications (3)** Emphasis will be on current microcomputer hardware, operating system, and database management software. Applications will be developed using the operating system and the database software. Prerequisites: CIS 1605; and MATH 1111 or a high school program including one unit of advanced algebra and one unit of geometry.

**CIS 4635 Seminar in Business Computer Applications (2-3)** Business applications and programming techniques will be studied and prepared for presentation and discussion. Prerequisite: At least one programming course.

**CIS 4640 Contemporary Computer Programming and Business Systems (3)** Comparison and application of two or three popular programming languages; systems analysis and procedure writing, flowcharting, designing, and maintaining business applications. Not open to computer information systems majors or minors.

**CIS 4655 Software Engineering (3)** An advanced course in the systematic approach to the specification, development, operation, maintenance, and retirement of software. Topics include formal specification tools, developmental strategies, software metrics, verification and validation techniques. Prerequisite: CIS 3660. An additional fee is associated with this course.

**CIS 4660 Applications Development Using JAVA (3)** Develop object-oriented web-based Graphical User Interface (GUI) applications for business using JAVA as the programming language. Prerequisites: CIS 2615 with a C grade or better and CIS 2665 and CIS 3650. An additional fee is associated with this course.

**CIS 4665 Data Communication and Distributed Data Processing (3)** A comprehensive introduction to the field of digital data communications. It provides an understanding of terminology, topology, protocol, and available systems network architecture. Prerequisite: CIS 2665.

**CIS 4667 Contemporary Voice and Data Systems\* (3)** An in-depth study of the theory of telephony. Provides the student with tools to understand and manage a large voice and data communications network. Topics include Central Office Switches, ISDN, Dial-Up and ISO-OSI. Prerequisite: CIS 4665. \*Not available for graduate credit.

**CIS 4670 Applications Development Using VB.net (3)** The course covers advanced concepts and techniques of programming in Visual Basic.NET. It focuses on desktop and web-based application development implementing more advanced techniques in Windows based applications, advanced notions of object-oriented programming and development of applications that access databases. The course adopts a hands-on approach. Prerequisites: CIS 2615, CIS 2665, and CIS 3650.

**CIS 4680 Data Resource Management (3)** Designing and administering data resources with consideration of transaction management, distributed systems, security, object-oriented databases, data mining, data warehousing and alternative data structures (XML). Prerequisites: CIS 2665 and CIS 3650 or admission to the MSIT or Information Systems concentration in the MBA. An additional fee is associated with this course.

**CIS 4685 Network Planning, Design and Security (3)** Essential theoretical concepts behind network planning, design and security. Use of network planning tools to design networks, configure firewalls and other security measures. Prerequisites: CIS 3660, CIS 3665 and CIS 4665.

**CIS 4690 Systems Architecture and Development (3)** Information architecture options for systems development with consideration of security. Project management. Major project incorporating software, hardware and networking components. To be taken last semester. Prerequisites: (CIS 2615, CIS 3650, and CIS 4685 or concurrently) or (CIS 3670, CIS 4680, and (CIS 4660 or CIS 4670)).

**CIS 4695 Advanced Programming in C/C++ (3)** Advanced study of the ANSI C Programming Language and C++ programming constructs that improve upon C. Introduces object-oriented world with Objects, Classes, Operators and Friends. \*Not available for graduate credit.

## Economics and Finance

### ECONOMICS

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

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

- Use appropriate concepts and methods of analysis to identify and examine economic conditions and policies.
- Communicate effectively with consumers and producers of economic information and analysis.
- Select, collect, and manipulate data and interpret results.
- Consider the economic issues in the context of individual values, social values, and historical and global circumstances.
- Demonstrate elementary proficiency in a modern foreign language.

Sem. Hours

**MAJOR REQUIREMENTS** . . . . . 33-36

ECON 1010	Principles of Macroeconomics	3
ECON 1011	Principles of Microeconomics	3
ECON 2010	Orientation to the Economics Major	2
ECON 3010	Intermediate Macroeconomics	3
ECON 3030	Intermediate Microeconomics	3
ECON 4000	Portfolio Assessment	1

Electives in economics or related fields . . . . . 18-21

Students using ECON 1010 to fulfill 3 s.h. of Div. II B of General Education will take 21 elective hours in economics or related fields for a total of 36 s.h. in the major.

**MINOR REQUIREMENTS** . . . . . 18-25

**GENERAL EDUCATION REQUIREMENTS** (pages 34-43) The Modern Language Requirement fulfills 3 s.h. of Div. II C . . . . . 42-45

If ECON 1010 is used to fulfill 3 s.h. of Div. II B, 42 s.h. of General Education are required.

MATH 1111	Div. I C (required)	3
POLS 1510	Div. II B (required)	3

**MODERN LANGUAGE REQUIREMENT** (Refer to Bachelor's Degree Requirements section for fulfillment options.) . . . . . 3-9

**FREE ELECTIVES** . . . . . 9-28

**MINIMUM TOTAL** . . . . . 124

### ECONOMICS

Major, Bachelor of Science Degree  
(43-537)

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

- Use appropriate concepts and methods of analysis to identify and examine economic conditions and policies.
- Communicate effectively with consumers and producers of economic information and analysis.
- Select, collect, and manipulate data and interpret results.
- Consider the economic issues in the context of individual values, social values, and historical and global circumstances.
- Demonstrate quantitative and statistical knowledge and skills.

Sem. Hours

**MAJOR REQUIREMENTS** . . . . . 41-44

CIS 1605	Business Application Software	2
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ECON 1010	Principles of Macroeconomics	3
ECON 1011	Principles of Microeconomics	3
ECON 2010	Orientation to the Economics Major	2
ECON 3010	Intermediate Macroeconomics	3
ECON 3030	Intermediate Microeconomics	3
ECON 3065	Labor Economics	3
ECON 4000	Portfolio Assessment	1
ECON 4060	Game Theory Applications	3
ECON 4065	Managerial Economics	3
ECON 4075	Time Series Analysis	3
ECON 4080	Econometrics	3
FIN 2801	Business Statistics I	3
FIN 3801	Business Statistics II	3
MGT 3360	Production/Operations Management	3
Electives in economics		0-3

Students using ECON 1010 to fulfill 3 s.h. of Div. II B of General Education will take 3 elective hours in economics for a total of 44 s.h. in the major.

**MINOR REQUIREMENTS** . . . . . 18-25

**GENERAL EDUCATION REQUIREMENTS** (pages 34-43) . . . . . 45-48

If ECON 1010 is used to fulfill 3 s.h. of Div. II B, 45 s.h. of General Education are required.

COMM 1000	Div. I B (required)	3
MATH 1111	Div. I C (required)	3
BTE 1210	Div. II A 2 (required)	2
POLS 1510	Div. II B (required)	3

**FREE ELECTIVES** . . . . . 10-17

**MINIMUM TOTAL** . . . . . 124

### ECONOMICS

Minor for a Bachelor's Degree

UCM does not confer teacher certification for this minor (538)

Sem. Hours

**MINOR REQUIREMENTS** . . . . . 20

ECON 1010	Principles of Macroeconomics	3
ECON 1011	Principles of Microeconomics	3
Electives in economics		14

**GENERAL EDUCATION REQUIREMENTS** (pages 34-43) In the minor, ECON 1010 fulfills 3 s.h. of Div. II B.

### FINANCE

Functional Major, Bachelor of Science in Business Administration Degree

(46-540)

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

- Take the initiative in identifying and pursuing opportunities for financial growth or improvement.
- Accurately use theoretical frameworks to analyze, solve, evaluate, and implement financial decisions in a systematic manner.
- Recognize international issues when evaluating/implementing financial decisions.
- Effectively communicate analyses/decisions to a wide variety of audiences, in a variety of professional contexts.
- Recognize and apply maximization principle: Maximize value of the firm/shareholders' wealth.
- Examine risk and return impacts of the firm's investment and financing decisions.
- Make sound financial decisions, using fundamental financial economic models, in a systematic manner.
- Recognize function of international financial markets.
- Comprehend role of financial intermediation.
- Appreciate legal and ethical considerations.

Sem. Hours

**FUNCTIONAL MAJOR REQUIREMENTS** . . . . . 71

*FIN 2801	Business Statistics I	3
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FIN 3801	Business Statistics II	3
+FIN 3850	Principles of Finance	3
+FIN 3861	Financial Management I	3
+FIN 3881	Financial Institutions and Markets	3
+FIN 3891	Security Analysis	3
*ECON 1011	Principles of Microeconomics	3
ECON 3020	Money & Banking	3
ECON 3030	Intermediate Microeconomics	3
*ACCT 2101	Principles of Financial Acct.	3
*ACCT 2102	Principles of Managerial Acct.	3
CIS 1605	Business Application Software	2
CIS 3630	Management Information Systems	3
MGT 3315	Management of Organizations	3
MGT 3325	Business Communications	3
MGT 3360	Production/Operations Management	3
MKT 3405	Marketing Policy	3
*BLAW 2720	Legal Environment of Business	3
ACCT 4115	Financial Statement Analysis	3
Electives from the following		15
FIN 3835	Internship in Finance	3
FIN 4862	Financial Management II	3
FIN 4880	Bank Management	3
FIN 4803	Principles of Insurance	3
FIN 4804	Emp. Benefits & Ret. Plan	3
FIN 4815	Investment Portfolio Admin.	3
FIN 4817	Managing Financial Derivatives	3
FIN 4820	International Finance	3
Business Elective		3

**MINOR NOT REQUIRED**

**GENERAL EDUCATION REQUIREMENTS (pages 34-43) . . . . . 48**

COMM 1000	Div. I B (required)	3
*MATH 1111	Div. I C (required)	3
*BTE 1210	Div. II A (required)	2
*ECON 1010	Div. II B (required)	3
PSY 1100	Div. II B or	
SOC 1800	Div. II B (required)	3
ICAP 4357	Div. IV B (required)	3

**FREE ELECTIVES . . . . . 5**

**MINIMUM TOTAL . . . . . 124**

+FIN 3850, FIN 3861, FIN 3881 and FIN 3891 must be completed with a grade of C or better to receive the B.S.B.A.-Finance degree.  
 \*Students expecting to receive the B.S.B.A. Degree must seek admission to this program upon the completion of a minimum of 41 semester hours of credit including ACCT 2101, ACCT 2102, BLAW 2720, BTE 1210, ECON 1010, ECON 1011, FIN 2801, and MATH 1111. See page 95 for the Statement of Policy on Admission to a B.S.B.A. Degree program.

**FINANCE**

**Minor for a Bachelor's Degree**

UCM does not confer teacher certification for this minor (541)

Sem. Hours

**MINOR REQUIREMENTS . . . . . 24**

ACCT 2100	Survey of Accounting	3
FIN 2801	Business Statistics I	3
FIN 3801	Business Statistics II	3
FIN 3850	Principles of Finance	3
FIN 3861	Financial Management I	3
FIN 3881	Financial Institutions & Markets	3
FIN 3891	Security Analysis	3
Finance Elective from the following		3
FIN 4803	Principles of Insurance	3
FIN 4804	Empl. Benefits & Retirement Planning	3
FIN 4815	Investment Portfolio Admin.	3
FIN 4817	Managing Financial Derivatives	3
FIN 4820	International Finance	3
FIN 4862	Financial Management II	3
FIN 4880	Bank Management	3

**GENERAL EDUCATION REQUIREMENTS (pages 34-43)** In the minor, MATH 1111 fulfills 3 s.h. of Div. I C.

**PERSONAL FINANCIAL PLANNING**

**Minor for a Bachelor's Degree**

UCM does not confer teacher certification for this minor. Successful completion of minor requirements satisfies the education requirements of the CERTIFIED FINANCIAL PLANNER™ certification. (546)

Sem. Hours

**MINOR REQUIREMENTS . . . . . 18**

FIN 3811	Investments	3
FIN 4803	Principles of Insurance	3
FIN 4804	Employee Benefits & Retirement Planning	3
FIN 4805	Adv. Personal Financial Planning	3
ACCT 3130	Introduction to Income Tax	3
ACCT 4136	Estate Planning	3

**Economics**

**ECON 1010 Principles of Macroeconomics (3)** An introduction to principles underlying the operation of modern industrial countries. Special attention is given to the determinants of income and employment.

**ECON 1011 Principles of Microeconomics (3)** An introduction to the functioning of a market economy. Emphasis is on behavior of consumers and business firms and the resulting allocation of resources and distribution of income.

**ECON 2010 Orientation to the Economics Major (2)** Familiarize economics majors with the CPI program, general outcomes, assessment activities (portfolio assessment), and future opportunities for economics majors. Prerequisite: ECON 1010 or ECON 1011.

**ECON 3010 Intermediate Macroeconomics (3)** Develop various theoretical frameworks for studying the forces affecting income, employment, and output in the economic system of the United States. Attention is given to the impact that government and other countries may have on these variables. Prerequisite: ECON 1010.

**ECON 3013 Public Finance (3)** The role of government in the modern mixed economy with emphasis on the impact of tax and expenditure policies on resource allocation and income distribution. Prerequisite: ECON 1011.

**ECON 3020 Money and Banking (3)** Money and banking structures including the Federal Reserve System and how it affects the economy. Monetary and National Income Theory are used to analyze economic policy. Prerequisite: ECON 1010.

**ECON 3030 Intermediate Microeconomics (3)** Conventional theory of consumption, production, pricing, and resource allocation. Prerequisite: ECON 1011.

**ECON 3035 Internship in Economics (3-9)** Opportunity for students to gain theoretical knowledge and practical application within a particular field of specialization. *May be repeated with consent of department and internship director.* Available for Pass/Fail credit only. Prerequisite: 60 semester hours and overall GPA of 2.50 or above and consent of internship director.

**ECON 3065 Labor Economics (3)** Survey of the labor force, wage and employment theories, economic insecurity including unemployment, trade unionism and collective bargaining from the standpoint of public policy. Prerequisites: ECON 1010 and ECON 1011.

**ECON 4000 Portfolio Assessment\* (1)** Review and assess the major's overall portfolio that he/she has accumulated and engage in discussion of economic issues. Prerequisites: ECON 2010 and consent of department chair. \*Not available for graduate credit.

**ECON 4010 International Economics (3)** Principles underlying international trade and finance and analysis of current problems and related policies. Prerequisites: ECON 1010 and ECON 1011.

**ECON 4015 Mathematical Economics I (3)** A survey of mathematics including theory of sets, calculus, differential and difference equations, linear programming, matrices, and their application in economics. Prerequisites: ECON 1011 and FIN 2801 or MATH 1131 or MATH 1151.



**ECON 4016 Mathematical Economics II (2)** A continuation and more advanced study in the application of mathematical tools in economics. Prerequisite: ECON 4015.

**ECON 4020 Natural Resource Economics (3)** Nature of natural resources; economic efficiency as basis for natural resource use; externalities in natural resource use; factors influencing environmental quality; alternate public policy tools for influencing natural resource use. Prerequisites: ECON 1010 and ECON 1011.

**ECON 4030 Directed Studies in Economics (1-3)** Intensive study of significant economic topics. *May be repeated for a maximum of 9 semester hours.*

**ECON 4040 History of Economic Thought (3)** Classical economists and the development of economic thought from the mercantilist period through the development of present thought. The course aims at establishing a synthesis of evolving doctrines which have become the basis of currently accepted economic theory. Prerequisite: ECON 1011.

**ECON 4050 Comparative Economic Systems (3)** Analysis of alternate patterns of economic control, planning, and market structures. The experience of British socialism, American capitalism, and Soviet-type central planning is emphasized.

**ECON 4052 Regional and Urban Economics (3)** Geographic regions and urban areas as economic systems with emphasis on location theory and economic policy in the regional/urban environments. Prerequisite: ECON 1011.

**ECON 4060 Game Theory Applications (3)** Provides game theoretical tools used widely in economics to study situations in which various decision-makers interact. Applications include political science and biology. Prerequisites: ECON 1011 and MATH 1111.

**ECON 4065 Managerial Economics\* (3)** This course is designed to apply economic theory and statistical methods to managerial decision making. Allocation and pricing problems of business are key focuses. Prerequisites: ECON 3010, ECON 3030 and FIN 3801. \*Not available for graduate credit.

**ECON 4070 Industrial Organization (3)** An analysis of selected economic problems of current interest dealing primarily with the structure of American industry, with emphasis on the conduct and performance of large firms. Prerequisite: ECON 1011.

**ECON 4075 Time Series Analysis\* (3)** The course will introduce, develop and apply forecasting models to decision making problems. The interpretation and accuracy of forecasting models will also be explored. Prerequisites: ECON 1010, ECON 3030 and FIN 3801. \*Not available for graduate credit.

**ECON 4080 Econometrics I (3)** Mathematical techniques and problems used in the quantitative approach to economic theory. Prerequisites: ECON 3030, ECON 3010 and statistics.

### Finance

**FIN 1820 Personal Finance (3)** For the student who desires information on managing his/her own personal income.

**FIN 2801 Business Statistics I (3)** Emphasizes the statistical analysis of business and economic data used in business and how this analysis aids in controlling operations and in making sound business decisions. Prerequisite: MATH 1111 or equivalent.

**FIN 3801 Business Statistics II (3)** Emphasizes the statistical analysis of business and economic data and how this analysis aids in controlling operations and in making sound business decisions. Prerequisite: FIN 2801.

**FIN 3811 Investments (3)** An analysis of investment planning, decision-making and problem solving including investment policy statements, portfolio strategies, asset allocation, security selection, and performance monitoring. Not open to students with a major or minor in finance.

**FIN 3835 Internship in Finance (3-9)** Opportunity for students to gain theoretical knowledge and practical application within a particular field of specialization. *May be repeated with consent of department and internship director. Available for Pass/Fail credit only.* Prerequisites: 60 semester hours and overall GPA of 2.50 or above and consent of internship director.

**FIN 3850 Principles of Finance (3)** An introduction to corporate financial decision-making, including financial analysis, working capital management, capital budgeting, long-term financing, and international finance. Prerequisites: ACCT 2102 or ACCT 2100; FIN 2801.

**FIN 3861 Financial Management I (3)** Organization goals and tools of financial management. Analysis of case materials illustrating problems encountered by firms of various sizes and operating characteristics. Examination of adjustment of financial policy of business to changing conditions. Prerequisite: FIN 3850, or a declared major in Actuarial Science and Mathematics with completion of MATH 4510.

**FIN 3881 Financial Institutions and Markets (3)** An analytic study of financial institutions, financial markets, and monetary policy. Prerequisite: ECON 3020 and FIN 3850 or consent of the instructor.

**FIN 3891 Security Analysis (3)** Classification and analysis of securities, markets, and industries. Formulation of investment policy for institutions and aggressive personal investors. Not available for credit to students who received credit in FIN 3811. Prerequisites: FIN 3801 or concurrently and FIN 3850.

**FIN 4800 Special Projects in Finance\* (1-3)** Individualized or group study under the supervision of departmental faculty. *May be repeated for a maximum of 12 semester hours.* Prerequisite: consent of the instructor. \*Not available for graduate credit.

**FIN 4803 Principles of Insurance (3)** Study of importance of risk in personal matters and various methods of treating risk. Includes property/liability insurance, life/health insurance, and insurance regulation. Prerequisite: FIN 3850 or declared functional major in Actuarial Science and Mathematics with completion of MATH 4510 or concurrently FIN 3811.

**FIN 4804 Employee Benefits and Retirement Planning (3)** A planning perspective is developed for major employee benefit arrangements, retirement plan provisions, pension design, tax implications and suitability for different businesses.

**FIN 4805 Advanced Personal Financial Planning (3)** Develops ability to synthesize financial planning knowledge in order to analyze complex client case scenarios. Emphasis on characteristics of the financial planning profession. Prerequisites: ACCT 4136, FIN 3811, FIN 4804; or concurrently.

**FIN 4815 Investment Portfolio Administration (3)** Application of security analysis and investment decision concepts to case problems and computer simulated investment situations. Additional readings in selected portfolio management theories. Prerequisite: FIN 3891.

**FIN 4817 Managing Financial Derivatives (3)** Applied analysis of pricing and hedging techniques for managing investments in derivative contracts (forward, futures, options, and swap contracts) involving the application of concepts and strategies to case problems and computer simulations. Prerequisite: FIN 3850, or a declared major in Actuarial Science and Mathematics with completion of MATH 4510.

**FIN 4820 International Finance (3)** An intensified study of international banking and finance as it relates to international trade and the multinational corporation and the financing of imports and exports. Prerequisite: FIN 3850 or equivalent.

**FIN 4830 Directed Readings in Finance (3)** Intensive study of significant financial topics.

**FIN 4862 Financial Management II\* (3)** Application of the theories and tools of financial decision making and control to case problems and business problem simulations. Prerequisite: FIN 3861. \*Not available for graduate credit.

**FIN 4880 Bank Management (3)** Study and analysis of the problems of management of commercial banks with an emphasis on investment and loan portfolios. Prerequisite: FIN 3881 or concurrently.

## Management and Business Communication

### MANAGEMENT

#### Functional Major, Bachelor of Science in Business Administration Degree (46-543)

The graduate with a B.S.B.A. degree with a major in Management will use the knowledge and skills obtained in the program to:

- Evaluate risks and probabilities.
- Use the common body of management knowledge to classify and analyze information to solve management problems.
- Plan managerial objectives and select appropriate methods for achieving objectives.
- Develop appropriate programs for implementation of selected alternatives and organize resources required.
- Develop skills necessary to improve continuously one's knowledge and abilities.
- Use text and graphics to communicate effectively ideas and information.
- Use nonverbal communicative behavior and demonstrate proficiency in making oral presentations in a variety of contexts.
- Contribute to a variety of work teams to accomplish tasks and fulfill the needs of the team and its members.
- Apply the basic principles of leadership in terms of a strategic perspective.
- Assume leadership role by establishing team goals and determining responsibility.
- Evaluate the impact of the values of one's chosen profession on society and make professional decisions based on the results of this evaluation.

Sem. Hours

#### FUNCTIONAL MAJOR REQUIREMENTS . . . . . 60

MGT 3315**	Management of Organizations . . . . .	3
MGT 3320	Systems, Teams & Org. Behavior . . . . .	3
MGT 3325	Business Communications . . . . .	3
MGT 3345	International Management . . . . .	1
MGT 3360	Production/Operations Mgt. . . . .	3
MGT 4310	Quality Systems . . . . .	3
MGT 4320	Leading & Managing Teams & Org. . . . .	3
MGT 4325	Management Communication . . . . .	3
MGT 4370	Supply Chain Management . . . . .	3
MGT 3385**	Integrative Bus. Experience Pract., 3 or	
MKT 3485**	Integrative Bus. Experience Pract., 3 or	
CIS 3685**	Integrative Bus. Experience Pract., 3 . . . . .	3
HRM 3920	Human Resource Management . . . . .	3
*ACCT 2101	Principles of Financial Acct. . . . .	3
*ACCT 2102	Principles of Managerial Acct. . . . .	3
CIS 1605	Business Application Software . . . . .	2
CIS 3630**	Management Information Systems . . . . .	3
*ECON 1011	Principles of Microeconomics . . . . .	3
*FIN 2801	Business Statistics I . . . . .	3
FIN 3801	Business Statistics II . . . . .	3
FIN 3850	Principles of Finance . . . . .	3
MKT 3405**	Marketing Policy . . . . .	3
*BLAW 2720	Legal Environment of Business . . . . .	3

#### MINOR NOT REQUIRED

#### GENERAL EDUCATION REQUIREMENTS (pages 34-43) . . . . . 48

COMM 1000	Div. I B (required) . . . . .	3
*MATH 1111	Div. I C (required) . . . . .	3
*BTE 1210	Div. II A (required) . . . . .	2
*ECON 1010	Div. II B (required) . . . . .	3
PSY 1100	Div. II B or	
SOC 1800	Div. II B (required) . . . . .	3
ICAP 4357	Div. IV B (required) . . . . .	3

#### ELECTIVES OUTSIDE OF THE HARMON COLLEGE OF BUSINESS ADMINISTRATION . . . . . 7

#### FREE ELECTIVES . . . . . 9

#### MINIMUM TOTAL . . . . . 124

\*Students expecting to receive the B.S.B.A. Degree must seek admission to this program upon the completion of a minimum of 41 semester hours of credit including ACCT 2101, ACCT 2102, BLAW 2720, BTE 1210, ECON 1010, ECON 1011, FIN 2801, and MATH 1111. See page 95 for the Statement of Policy on Admission to a B.S.B.A. Degree program.

\*\*Students must enroll in IBE Practicum (MGT 3385 or MKT 3485 or CIS 3685) concurrently with the IBE sections of MGT 3315, MKT 3405 and CIS 3630.

### HUMAN RESOURCE MANAGEMENT

#### Functional Major, Bachelor of Science in Business Administration Degree (46-544)

This program has been placed in abeyance. See the Department Chair for more information.

### AGRICULTURE-BUSINESS

#### Functional Major, Bachelor of Science Degree

See requirements as outlined in the Department of Agriculture.

### MANAGEMENT

#### Minor for a Bachelor's Degree

UCM does not confer teacher certification for this minor. (510)

Sem. Hours

#### MINOR REQUIREMENTS . . . . . 24

IBE Block . . . . .	12
MGT 3315 Management of Organizations . . . . .	3
MKT 3405** Marketing Policy . . . . .	3
CIS 3630*** Management Information Systems. . . . .	3
MGT 3385 IBE Practicum , 3 ,or	
MKT 3485 IBE Practicum, 3 or	
CIS 3685 IBE Practicum, 3. . . . .	3
ACCT 2100 Survey of Accounting, 3, or	
ACCT 2101 Principles of Financial Acct. . . . .	3
MGT 4315 Entrepreneurship . . . . .	3
MGT 3325 Business Communications . . . . .	3
Choose one of the following. . . . .	3
HRM 3920 Human Resource Management . . . . .	3
MGT 4325 Managerial Communication . . . . .	3
BLAW 2720 Legal Environment of Business . . . . .	3
CIS 1605 Business Application Software. . . . .	3
ACCT 2102 Principles of Managerial Acct.. . . . .	3
MKT class higher than MKT 3405. . . . .	3

\*\* ECON 1010 and ECON 1011 are prerequisites for MKT 3405. The chair of the department of Marketing is willing to waive these for management minors.

\*\*\*CIS 1605 is a prerequisite for CIS 3630. There are several choices for students to meet this requirement. The CIS department is willing to substitute for CIS 1605 if the student took a similar course in his/her major. Students may, alternatively take the CIS 1605 equivalency exam. If students pass this exam, the CIS 1605 prerequisite for CIS 3630 will be waived. See the CIS department chair (3rd floor Dockery) for further assistance. Lastly students may choose CIS 1605 as one of the choices above.

#### Management

**MGT 1300 Introduction to Business (3)** Emphasizes the traditional facets of business (its environment, organization, and basic business functions) as well as the social and physical climate in which business, industry, and government operate. May not be taken for credit by students who have completed in excess of 12 semester hours of College of Business and Economics courses.

**MGT 3310 Principles of Management (3)** Provides an intensive examination of the basic fundamentals of organization underlying the solution of management problems. Available only to nonbusiness majors.

**MGT 3315 Management of Organizations (3)** An examination of the theory and practices of managing organizations, including planning, organizational theory, human behavior, and control. Prerequisites: ACCT 2100 or ACCT 2101. Available only to business majors.

**MGT 3320 Systems, Teams and Organizational Behavior (3)** Emphasis on systems, teams, interpersonal relationships between participants and the dominant influence of systems on human behavior in groups and organizations. Prerequisite: MGT 3325 or concurrently and MGT 3315 or concurrently.

**MGT 3325 Business Communications (3)** Improves the student's ability to plan and strategically write letters, memos, proposals, and reports and improve oral and interpersonal communication skills. Both listening and speaking skills will be developed through formal presentations, class discussions, and group work.

**MGT 3335 Internship in Management (3-9)** Opportunity for students to gain theoretical knowledge and practical application within a particular field of specialization. Take only for pass/fail credit. Prerequisites: 60 semester hours and overall GPA 2.50 or above or permission from internship director.

**MGT 3345 International Management (1)** This course will investigate the impact of 'free economies', cultural differences, negotiation styles, HR practices political systems and ethical dilemmas on international business and management.

**MGT 3360 Production/Operations Management (3)** Experiential analysis of operations problems commonly faced by managers in many disciplines. Emphasis on strategic operations decision making, planning operations systems, forecasting, quality and project management. Prerequisites: FIN 3801 or concurrently and MGT 3315 or concurrently; or FIN 3801 or concurrently and a declared BS in Economics.

**MGT 3385 Integrative Business Experience Practicum (3)** Students will apply concepts from the concurrent courses to their own start-up business venture and to community service. Corequisites: special sections of MGT 3315, MKT 3405 and CIS 3630. Prerequisites: ACCT 2101 or ACCT 2100, CIS 1605 or ACCT 2110, ECON 1010, ECON 1011.

**MGT 4300 Health Care Administration (3)** Management concepts, tools, and techniques for effective administration of all types of health care facilities. Prerequisite: MGT 3310 or MGT 3315 or graduate standing.

**MGT 4310 Quality Systems (3)** Students learn systems thinking, criteria for the design of quality systems, the change process for transformation of organizational systems, process management, and the cycle of continuous improvement. Prerequisite: MGT 3360 and Admission to the Harmon College of Business Administration or admission to the graduate school.

**MGT 4315 Entrepreneurship\* (3)** This course develops the ability to identify new product opportunities and/or ideas for new businesses. Students will learn to evaluate feasibility of product/business concept. Students will interact with entrepreneurs and the course requires a class project. \*Not available for graduate credit. Cannot be used toward any graduate degree offered in the HCBA.

**MGT 4320 Leading and Managing Teams and Organizations\* (3)** This course focuses on the behaviors of exemplary leaders. Student teams develop and deliver workshops allowing fellow students to become more effective leaders by practicing the behaviors of exemplary leadership. Prerequisites: MGT 3320, MGT 4310 or concurrently, Admission to the Harmon College of Business Administration. \*Not available for graduate credit.

**MGT 4325 Management Communication\* (3)** Provide advanced communication theories and methods which are essential for effective managers in oral and written communication situations. Emphasizes individual, team, and group communication through a series of business cases. \*Not available for graduate credit. Prerequisite: MGT 3325 and Admission to the Harmon College of Business Administration.

**MGT 4350 Special Projects in Management (1-3)** Advanced course in management theory, practice, methods, and strategies taught on an individual or group basis to advanced management students and graduate students. *May be repeated for a maximum of 6 semester hours.* Prerequisites: all preadmission courses or MBA background requirements, MGT 3315, and Department Chair's approval with adequate preparation in area to be studied.

**MGT 4370 Supply Chain Management (3)** Explains the role of supply chain managers and the impact of their decisions on the competitive success and profitability of modern organizations. Through integrative experiential team-based activities and projects, students are given an opportunity to experience the increasingly strategic nature of supply chain management. Prerequisite: MGT 3360 and Admission to the Harmon College of Business Administration or admission to the graduate school.

### Human Resource Management

**HRM 3920 Human Resource Management (3)** Issues related to the effective management of people within organizations; pertinent to all disciplines. Emphasis placed on practical applications using experiential activities to develop student's managerial skills. Prerequisite: MGT 3315 or MGT 3310 or concurrently.

**HRM 4930 Compensation and Benefits (3)** Concepts, models, theories, and application of processes and systems of employee compensation and benefits within organizations. Only offered Fall semester. Prerequisite: HRM 3920.

**HRM 4960 Employment and Development (3)** Concepts, models, theories, and application of human resource planning, employment, and training and development. Prerequisite: HRM 3920.

**HRM 4990 Problems in Human Resource Management (3)** An integrated approach to the administration of the human resource function in various types of organization settings through the use of the case and incident methods. Prerequisite: HRM 3920.

### Integrative Studies Capstone

**ICAP 4357 Organizational Policy and Strategy\* (3)** Capstone course requiring integration of business knowledge using conceptual, communication, interpersonal, and technical skills applied to strategic management. Case study and competitive simulation methods are used in an experiential team learning environment. Prerequisites: Admission to the B.S.B.A. program, MGT 3315, MGT 3325, MKT 3405, FIN 3850, and senior standing. \*Not available for graduate credit.

### Marketing and Legal Studies

#### MARKETING

Functional Major, Bachelor of Science in Business Administration Degree

(46-511)

The graduate with a B.S.B.A. degree with a major in Marketing will use the knowledge and skills obtained in the program to:

- Understand the marketing concepts in consumer behavior, personal selling, marketing research, marketing analysis, strategy development and global decision-making.
- Communicate effectively in both individual and team situations using both oral and written communication.
- Interact effectively with others to analyze situations and solve marketing problems.
- Understand the valuing process as it relates to making optimal decisions in the global business environment.
- Apply analysis and problem solving skills to assess marketing situations and develop strategies for implementation.

Sem. Hours

FUNCTIONAL MAJOR REQUIREMENTS . . . . . 68

MKT 3405	Marketing Policy	3
MKT 3430	Personal Selling	3
MKT 3480	Consumer Behavior	3
MKT 4460	International Marketing	3
MKT 4470	Marketing Research	3
MKT 4490	Marketing Management	3
*BLAW 2720	Legal Environment of Business	3
*ACCT 2101	Principles of Financial Acct.	3
*ACCT 2102	Principles of Managerial Acct.	3
CIS 1605	Business Application Software	2
CIS 3630	Management Information Systems	3
*ECON 1011	Principles of Microeconomics	3
*FIN 2801	Business Statistics I	3
FIN 3801	Business Statistics II	3
FIN 3850	Principles of Finance	3
MGT 3315	Management of Organizations	3
MGT 3325	Business Communications	3
MGT 3360	Production/Operations Mgt.	3
Marketing electives from the following . . . . . 15		
MKT 1400	Orientation to Marketing	1
MKT 3410	Retail Management	3
MKT 3420	Principles of Advertising	3
MKT 3435	Internship in Marketing	3-6
MKT 3460	Advanced Professional Sales	3
MKT 4420	Sales Management	3
MKT 4430	Marketing Distribution	3
MKT 4440	Seminar in Marketing	3
MKT 4450	Integrated Marketing Comm.	3

MINOR NOT REQUIRED

GENERAL EDUCATION REQUIREMENTS (pages 34-43) . . . . . 48

COMM 1000	Div. I B (required)	3
*MATH 1111	Div. I C (required)	3
*BTE 1210	Div. II A (required)	2
*ECON 1010	Div. II B (required)	3
PSY 1100	Div. II B or	
SOC 1800	Div. II B (required)	3
ICAP 4357	Div. IV B (required)	3

FREE ELECTIVES . . . . . 8

MINIMUM TOTAL . . . . . 124

\*Students expecting to receive the B.S.B.A. Degree must seek admission to this program upon the completion of a minimum of 41 semester hours of credit including ACCT 2101, ACCT 2102, BLAW 2720, BTE 1210, ECON 1010, ECON 1011, FIN 2801, and Math 1111. See page 95 for the Statement of Policy on Admission to a B.S.B.A. Degree program.

#### MARKETING

Minor for a Bachelor's Degree

UCM does not confer teacher certification for this minor (512)

Sem. Hours

MINOR REQUIREMENTS . . . . . 22

MKT 3405	Marketing Policy	3
MKT 3430	Personal Selling	3
MKT 3480	Consumer Behavior	3
CIS 1605	Business Application Software	2
ECON 1010	Principles of Macroeconomics	3
ECON 1011	Principles of Microeconomics	3
MKT 3410	Retail Management, 3 or	
MKT 3420	Principles of Advertising, 3	3
BTE 1210	Essentials of Managing Information	2

GENERAL EDUCATION REQUIREMENTS (pages 34-43) In the minor, if elected, BTE 1210 fulfills 2 s.h. of Div. II A; ECON 1010 fulfills 3 s.h. of Div. II B

#### BUSINESS ADMINISTRATION

Minor for a Bachelor's Degree

UCM does not confer teacher certification for this minor (545)

Sem. Hours

MINOR REQUIREMENTS . . . . . 19

ACCT 2101	Principles of Financial Accounting, 3 or	
ACCT 2100	Survey of Accounting, 3	3
ECON 1010	Principles of Macroeconomics	3
BLAW 2720	Legal Environment in Business	3
MGT 3310	Principles of Management, 3 or	
MGT 3315	Mgt. of Organizations, 3	3
MKT 3400	Principles of Marketing, or	
MKT 3405	Marketing Policy, 3	3
CIS 1605	Business Application Software	2
BTE 1210	Essentials of Managing Info.	2

GENERAL EDUCATION REQUIREMENTS (pages 34-43) In the minor, if elected, BTE 1210 fulfills 2 s.h. of Div. II A; ECON 1010 fulfills 3 s.h. of Div. II B.

#### Marketing

**MKT 1400 Orientation to Marketing (1)** Orientation to the field of marketing. Available for those with less than 75 hours and no prior credit in MKT 3405 or equivalent. Counts as a free elective.

**MKT 3400 Principles of Marketing (3)** Methods used in determining the needs and desires of consumers and translating these findings into products of a suitable nature. Methods used in getting these products into the hands of the consumer. Basic marketing class for nonbusiness majors. Not available to students with prior credit in MKT 3405 and may not be used as a marketing elective.

**MKT 3405 Marketing Policy (3)** A comprehensive study of marketing theory and concepts and the application of these ideas in modern organizations by professionally trained managers. First course in marketing sequence for marketing functional majors and minors, and marketing foundation course for the business core requirement of B.S.B.A. degree students. May not be used as a marketing elective. Prerequisites: ECON 1010, ECON 1011 and 60 semester hours of college credit.

**MKT 3410 Retail Management (3)** The initial considerations and decisions for establishing and managing a retail store. Prerequisite: MKT 3400 or MKT 3405.

**MKT 3420 Principles of Advertising (3)** Advertising purposes and procedures covering primarily the point of view of the advertising manager. Study of proper appeals, copy preparation, layout, and media. Prerequisite: MKT 3400 or MKT 3405 or AGRI 3120.

**MKT 3430 Personal Selling (3)** Techniques involved in personal selling. Prerequisite: MKT 3400 or MKT 3405 or AGRI 3120.

**MKT 3435 Internship in Marketing (3-9)** Opportunity for students to gain theoretical knowledge and practical application within a particular field of specialization. May not be taken last semester of senior year. Available for Pass/Fail Credit only. Prerequisites: admission to B.S.B.A., MKT 3405, overall GPA 2.50 or above and consent of internship director.

**MKT 3460 Advanced Professional Sales (3)** This course will apply advanced communication skills to the sales process for those interested in business to business selling as a career. Prerequisites: MKT 3405 and MKT 3430.

**MKT 3480 Consumer Behavior (3)** The application of knowledge from the behavioral sciences to the study, analysis, and interpretation of consumer buying habits and motives. Individual, group, and cultural influences on consumer preferences and purchasing patterns are emphasized. Prerequisite: MKT 3400 or MKT 3405.

**MKT 3485 Integrative Business Experience Practicum (3)** Students will apply concepts from the concurrent courses to their own start-up business venture and to community service. Corequisites: special sections of MGT 3315, MKT 3405 and CIS 3630. Prerequisites: ACCT 2101 or ACCT 2100, CIS 1605 or ACCT 2110, ECON 1010, ECON 1011.

**MKT 4420 Sales Management (3)** Management aspects of selling with emphasis on the role of the supervisor in the sales field. Prerequisites: MKT 3405; admission to B.S.B.A. for undergraduate students or department chair approval for graduate students.

**MKT 4430 Marketing Distribution (3)** Methods and strategies used in distributing products including the design of channels and the activity performed by channel members to facilitate efficient movement of goods. Prerequisites: MKT 3405; admission to B.S.B.A. for undergraduate students or department chair approval for graduate students.

**MKT 4440 Seminar in Marketing (3)** Analysis of current issues and problems in marketing with emphasis on new theoretical and methodological developments. Prerequisites: MKT 3405; admission to B.S.B.A. for undergraduate students or department chair approval for graduate students.

**MKT 4450 Integrated Marketing Communication (3)** The determination of the correct blend of advertising, personal selling, sales promotion, reseller support, and publicity. Prerequisites: MKT 3405; admission to B.S.B.A. for undergraduate students or department chair approval for graduate students.

**MKT 4460 International Marketing (3)** Marketing policies and practices in foreign trade. Prerequisites: MKT 3405; admission to B.S.B.A. for undergraduate students or department chair approval for graduate students.

**MKT 4470 Marketing Research (3)** Applications of research methods to the problems of marketing. Prerequisites: MKT 3405; admission to B.S.B.A. for undergraduate students or department chair approval for graduate students.

**MKT 4480 Special Projects in Marketing (1-3)** Individualized or group study under supervision of department faculty. *May be repeated for a maximum of 6 semester hours.* Prerequisite: department chair approval.

**MKT 4490 Marketing Management\* (3)** An overview of major areas of marketing from the viewpoint of the marketing executive; a capstone course integrating previous marketing study and background into a managerial context. Prerequisites: MKT 3405, admission to B.S.B.A., and last semester in program. \*Not available for graduate credit.

### Business Law

**BLAW 2720 Legal Environment of Business (3)** A survey of a number of areas of law that are important to persons as citizens and as participants in economic activity. Included are legal process, alternative dispute resolution, contracts, torts, product liability, employment law, antitrust, and international business law.

**BLAW 3721 Law of Business Transactions (3)** Provides a comprehensive discussion of the laws concerning the formation and performance of contracts, sales of goods transactions, creation and transfer of negotiable instruments, and selected transactions in real and personal property. Prerequisite: BLAW 2720.

**BLAW 4740 Employment Law (3)** Policy and legal problems arising in an area of acute social and economic conflict.

**BLAW 4750 Collective Bargaining (3)** Roles and strategies of labor, management, and the Government as the active participants in the negotiation and performance of the labor contract. Prerequisite: BLAW 4740.

# College of Education

## Career and Technology Education

For the VOCATIONAL AGRICULTURE EDUCATION Functional Major, Bachelor of Science in Education Degree see the program listing in the Agriculture Department.

### Business Education

#### BUSINESS EDUCATION

Major, Bachelor of Science in Education Degree

Certification to teach business education subjects in grades 9-12 (41-524)

The graduate with a Bachelor of Science in Education degree with a functional major in Business Education will use the knowledge and skills obtained in the program to:

- Meet all Missouri Standards for Teacher Educators (MoSTEP).
- Meet all competencies set by the Missouri Department of Elementary and Secondary Education for Business Education (MoSTEP Standard 1.2.1 “. . . knows the subject(s) applicable to the area(s) of certification . . .”) which includes: accounting, business/consumer related las, business communications, computer applications, economics, keyboarding, management, marketing, personal finance and professional education.
- Pass the PRAXIS II subject area exam at the level set by the Missouri Department of Elementary and Secondary Education.

Sem. Hours

**MAJOR REQUIREMENTS . . . . . 33**

CTE	1000	Intro. to Career & Technology Education . .	3
BTE	2535	Data Input Technologies . . . . .	3
BTE	3536	Integrated Productivity Applications . . . . .	3
BTE	4210	Methods of Teaching Business Ed. . . . .	3
BTE	4501	Managing Classroom Technology . . . . .	3
*BTE	4510	Desktop Publishing for Business . . . . .	3
BTE	4550	Web Communications. for Business . . . . .	3
ACCT	2101	Principles of Financial Acct. . . . .	3
MGT	3325	Business Communications . . . . .	3
MKT	3400	Principles of Marketing . . . . .	3
BLAW	2720	Legal Environment of Business . . . . .	3

\* See catalog course descriptions for prerequisite course(s).

**MINOR REQUIREMENTS . . . . . 18-25**

**GENERAL EDUCATION REQUIREMENTS (pages 34-43)**

In the professional education requirements, ICAP 4468 fulfills 3 s.h. of Div. III B . . . . . 45

Secondary Education students must have one course in a physical or earth science and one in a biological science in Div. II A.

COMM	1000	Div. I B (required) . . . . .	3
MATH	1111	Div. I C or	
MATH	1620	Div. I C (required) . . . . .	3
BTE	1210	Div. II A (required) . . . . .	2
HIST	1350	Div. II B or	
HIST	1351	Div. II B (required) . . . . .	3
ECON	1010	Div. II B (required) . . . . .	3
POLS	1510	Div. II B (required) . . . . .	3
PSY	4230	Psy. of Adolescence . . . . .	3

Secondary Education students will be allowed to substitute PSY 4230 to fulfill 3 s.h. of Div. III.

**PROFESSIONAL EDUCATION REQUIREMENTS (page 115) . . . . . 28**

**MINIMUM TOTAL . . . . . 124**

#### BUSINESS EDUCATION

Functional Major, Bachelor of Science in Ed. Degree

Certification to teach business education subjects in grades 9-12 (41-525)

The graduate with a Bachelor of Science in Education degree with a functional major in Business Education, will use the knowledge and skills obtained in the program to:

- Meet all Missouri Standards for Teacher Educators (MoSTEP).
- Meet all competencies set by the Missouri Department of Elementary and Secondary Education for Business Education (MoSTEP Standard 1.2.1 “. . . knows the subject(s) applicable to the area(s) of certification . . .”) which includes: accounting, business/consumer related las, business communications, computer applications, economics, keyboarding, management, marketing, personal finance and professional education.
- Pass the PRAXIS II subject area exam at the level set by the Missouri Department of Elementary and Secondary Education.

Sem. Hours

**FUNCTIONAL MAJOR REQUIREMENTS . . . . . 41**

CTE	1000	Intro. to Career & Technology Education . .	3
BTE	2535	Data Input Technologies . . . . .	3
BTE	3536	Integrated Productivity Applications . . . . .	3
BTE	4501	Managing Classroom Technology . . . . .	3
BTE	4210	Methods of Teaching Business Ed. . . . .	3
BTE	4510	Desktop Publishing for Business . . . . .	3
BTE	4550	Web Communications. for Business . . . . .	3
BTE	4560	Presentations & Information Management	3
ACCT	2101	Principles of Financial Acct. . . . .	3
MGT	3325	Business Communications . . . . .	3
MKT	3400	Principles of Marketing . . . . .	3
BLAW	2720	Legal Environment of Business . . . . .	3
FIN	1820	Personal Finance . . . . .	3
INST	4330	Technology Troubleshooting for Educators .	2

**MINOR NOT REQUIRED**

**GENERAL EDUCATION REQUIREMENTS (pages 34-43)**

In the professional education requirements, ICAP 4468 fulfills 3 s.h. of Div. III B . . . . . 45

Secondary Education students must have one course in a physical or earth science and one in a biological science in Div. II A.

COMM	1000	Div. I B (required) . . . . .	3
MATH	1111	Div. I C or	
MATH	1620	Div. I C (required) . . . . .	3
BTE	1210	Div. II A (required) . . . . .	2
HIST	1350	Div. II B or	
HIST	1351	Div. II B (required) . . . . .	3
ECON	1010	Div. II B (required) . . . . .	3
POLS	1510	Div. II B (required) . . . . .	3
PSY	4230	Psy. of Adolescence . . . . .	3

Secondary Education students will be allowed to substitute PSY 4230 to fulfill 3 s.h. of Div. III.

**PROFESSIONAL EDUCATION REQUIREMENTS (page 115) . . . . . 28**

**Departmentally Approved Electives . . . . . 10**

**MINIMUM TOTAL . . . . . 124**

**BUSINESS EDUCATION**

**Minor for a Bachelor's Degree**

Certification to teach Business Education in grades 5-9 with a middle school-junior high school major.

NOTE: See Director of Clinical Services and Certification. (517)

	Sem. Hours
<b>MINOR REQUIREMENTS</b> . . . . .	<b>23</b>
BTE 1210 Essentials of Managing Information . . . . .	2
CTE 1000 Intro. to Career & Technology Education . . . . .	3
BTE 2535 Data Input Technologies . . . . .	3
BTE 3536 Integrated Productivity Applications! . . . . .	3
BTE 4501 Managing Classroom Technology . . . . .	3
BTE 4510 Desktop Publishing for Business . . . . .	3
BTE 4560 Presentations & Information Management . . . . .	3
ECON 1010 Principles of Macroeconomics . . . . .	3

**GENERAL EDUCATION REQUIREMENTS** (pages 34-43)  
 In the minor, BTE 1210 fulfills 2 s.h. of Div. II A; ECON 1010 fulfills 3 s.h. of Div. II B.

**ADMINISTRATIVE SUPPORT**

**Minor for a Bachelor's Degree**

UCM does not confer teacher certification for this minor (548)

	Sem. Hours
<b>MINOR REQUIREMENTS</b> . . . . .	<b>20</b>
BTE 1210 Essentials of Managing Information . . . . .	2
CTE 1000 Intro. to Career & Technology Education . . . . .	3
BTE 2535 Data Input Technologies . . . . .	3
BTE 3536 Integrated Productivity Applications! . . . . .	3
BTE 4501 Managing Classroom Technology . . . . .	3
ACCT 2101 Principles of Financial Acct. . . . .	3
Electives from the following . . . . .	3
BTE 4510 Desktop Publishing for Business . . . . .	3
BTE 4560 Presentations & Information Mgt. . . . .	3

**GENERAL EDUCATION REQUIREMENTS** (pages 34-43)  
 In the minor, BTE 1210 fulfills 2 s.h. of Div. II A.

**Career Technology Education**

- CTE 1000 Introduction to Career & Technical Education (3)**  
 Introduction to teaching Career & Technical Education. Philosophy and content of respective Career Education programs in Missouri, and respective state and national standards.
- CTE 3110 Financial Management Education (3)** Competencies related to income, taxes, money management, spending, use of credit, saving, and investing. Issues and strategies for responsible personal financial management across the life-span.
- CTE 4110 Foundations of Career & Technology Education (3)**  
 Synthesizes Career and Technical Education's history, past and current issues, legislation, and philosophical foundations. Only offered Fall semester.
- CTE 4145 Curriculum Construction in Career and Technical Education (3)** Assist new and practicing educators in selecting and organizing course content for their career and technical education courses. Prerequisite: For BS degree, T&OE 4140. For BSE degree Admission to Teacher Education Program or instructor approval.
- CTE 4160 Methods of Teaching Career and Technical Education (3)**  
 Prerequisite: For BS degree, CTE 4145. For BSE degree, admission to Teacher Education Program or instructor approval.
- CTE 4242 Philosophy of Career and Technical Education (2)** Past and current philosophy of career and technical education.

**Business Teacher Education**

- BTE 1210 Essentials of Managing Information (2)** Prepare students to be active computer users. Includes evaluating computers, Internet use as a student and consumer, and skills in word processing, spreadsheet and presentation software.
- BTE 1530 Keyboarding (2)** Touch operation of alphabetic, numeric,

- and symbol keys found on most computer keyboards, word processors, and typewriters; introduction to document formatting.
- BTE 1532 Intermediate Keyboarding (3)** Emphasis on building speed and accuracy. Includes document formatting.  
 Prerequisite: Prior instruction in touch keyboarding.
- BTE 2535 Data Input Technologies (3)** Technologies and processes for managing data in an information system. Emphasizes efficient input methods and alternative technologies along with appropriate document formatting and information management. Prerequisite: Keyboarding speed of 35 wpm with 95 percent or higher accuracy on a 5-minute timed writing.
- BTE 3241 Principles of Marketing Education (3)** An introduction to the basic principles of marketing education.
- BTE 3536 Integrated Productivity Applications (3)** Continuing emphasis on input technology proficiency and document formatting with advanced productivity tools for information management. Integrated projects and problem-based learning will facilitate learning.  
 Prerequisites: BTE 1210 and BTE 2535 with a grade of C or higher.
- BTE 4210 Methods of Teaching Business Education (3)** Prepares student as teachers of business education by assisting in the development of instructional methods and techniques for student-oriented classroom instruction. Prerequisites: admission to Teacher Education Program; senior or graduate status, or by departmental approval.
- BTE 4220 Secondary Field Experience II\* (1)** Experiences in the secondary school classroom that provide the teacher candidate more advanced involvement in the teaching-learning process. Prerequisites: admission to Teacher Education Program; should be taken concurrently with BTE 4230 during the Professional Semester. \*Not available for graduate credit.
- BTE 4230 Methods of Teaching Business-General\* (2)** Prerequisites: admission to Teacher Education Program; double majors must take a methods course for each major; methods should be taken concurrently with BTE 4220 during the Professional Semester. \*Not available for graduate credit.
- BTE 4241 Coordination of Cooperative Education Programs (2)** Organizing and implementing cooperative career and technical education programs.
- BTE 4250 Business/Marketing Education Practicum (1-3)** Students will experience a supervised internship within the business or marketing environment. *May be repeated for a maximum of 6 semester hours.*
- BTE 4260 Special Topics in Business Teacher Education (1-3)** Topics will be listed in appropriate course schedules. May be used to teach specific microcomputer software or to cover other critical topics in business education and office administration as new technologies develop. Prerequisite: senior or graduate status.
- BTE 4280 Implementing Business Education (3)** This course addresses information needed to plan, implement, and maintain business education programs.
- BTE 4501 Managing Classroom Technology (3)** Students will work with current electronic media management tools that enhance classroom instruction in career education. Emphasizes resources to manage a multimedia-rich educational environment. Only offered Fall semester. Prerequisites: BTE 1210 with C grade or higher, or by departmental approval.
- BTE 4510 Desktop Publishing for Business (3)** This course includes business desktop publishing concepts that utilize basic to intermediate design principles for creating comprehensive document layouts with polished professional-looking images. Prerequisite: BTE 3536 or departmental approval.
- BTE 4550 Web Communications for Business (3)** Office problems from the administrative point of view, with an Includes effective business web design concepts, application tools, and production fundamentals such as working with text and graphics, links and tables, animation and special effects. Only offered Spring semester. Prerequisite: BTE 3536 or departmental approval.
- BTE 4560 Presentations and Information Management (3)** Focuses on solving business problems using technology tools available for information management. Uses case study design to create solutions for business and business education. Prerequisites: BTE 4510 or BTE 4550 or departmental approval.

## Family and Consumer Sciences

In the section of Family and Consumer Sciences, the second digit in a course number with a FACS prefix stands for the following: 0-General, 1-Family Economics and Management, 7-Professional.

### VOCATIONAL FAMILY AND CONSUMER SCIENCES

#### Functional Major, Bachelor of Science in Ed. Degree

Certification to teach vocational family and consumer sciences from birth to grade 12 (41-849)

The graduate with a Bachelor of Science in Education degree in Vocational Family and Consumer Sciences will:

- Gain subject matter/content area knowledge needed for certification in Vocational Family and Consumer Sciences.
- Meet Professional Education requirements for certification.
- Interact with diverse and global environments.
- Gain knowledge and skills in order to teach today's high school and middle school students.
- Use technology, research skills, problem solving, communication and critical thinking within the teaching profession.
- Gain experience working with diverse groups.

Sem. Hours

#### FUNCTIONAL MAJOR REQUIREMENTS . . . . . 37

CTE 3110	Financial Management Education . . . . .	3
FACS 3120	Family Resource Management . . . . .	3
CFD 1220	Child Development . . . . .	3
CFD 3230	Family Systems & Lifespan Dev. . . . .	3
CFD 3240	Parent-Child Interaction . . . . .	3
CFD 3260	Practicum in Child Development . . . . .	1
FOOD 2322	Food Preparation . . . . .	3
D&N 3340	Nutrition . . . . .	3
FACS 3710	Organization of Vocational Family & Consumer Sciences Ed . . . . .	3
HED 4320	Teaching Sex. Ed. in the School. . . . .	3
FAME 1450	Textile & Apparel Fabrication I . . . . .	3
FAME 2442	Textiles . . . . .	3
FAME 4410	Architectural Interiors . . . . .	3

#### MINOR NOT REQUIRED

#### GENERAL EDUCATION REQUIREMENTS (pages 34-43)

In the professional education requirements, ICAP 4468

fulfills 3 s.h. of Div. III B . . . . .	45	
CHEM 1104	Div. II A (required) . . . . .	4
BIOL 1003	Div. II A (required) . . . . .	3
POLS 1510	Div. II B (required) . . . . .	3
HIST 1350	Div. II B or	
HIST 1351	Div. II B (required) . . . . .	3
PSY 4230	Psy. of Adolescence . . . . .	3
CFD 1010	Div. III (required) . . . . .	3

Secondary Education students will be allowed to substitute PSY 4230 to fulfill 3 s.h. in Div. II B.

#### PROFESSIONAL EDUCATION REQUIREMENTS (page 115) . . . . . 29

This includes 3 s.h. of "special methods in major field" required for certification.

#### FREE ELECTIVES . . . . . 13

#### MINIMUM TOTAL . . . . . 124

## FAMILY AND CONSUMER SCIENCES

### Minor for a Bachelor's Degree

Certification to teach general family and consumer sciences in grades 5-9 available with middle school-junior high school major; elementary education functional majors may use this as an area of concentration. (850)

Sem. Hours

#### MINOR REQUIREMENTS . . . . . 22

CTE 3110	Financial Management Education . . . . .	3
FACS 3120	Family Resource Management . . . . .	3
CFD 1220	Child Development . . . . .	3
CFD 3230	Family Sys. & Lifespan Dev. . . . .	3
CFD 3260	Practicum in Child Development . . . . .	1
FOOD 2322	Food Preparation . . . . .	3
D&N 3340	Nutrition . . . . .	3
FAME 1450	Textile & Apparel Fabrications I . . . . .	3

### General

#### FACS 4000 Special Projects in Family and Consumer Sciences (1-3)

Investigation of contemporary problems and issues in family and consumer services. *May be repeated for a maximum of 6 semester hours.*

### Family Economics and Management

**FACS 3120 Family Resource Management (3)** Effective and efficient management of family resources to maximize personal and family satisfactions. Only offered Spring semester. Prerequisite: CTE 3110.

**FACS 4150 Special Problems in Family Economics and Management (2-3)** Recent trends. Group and individual problems which will include reports, discussions, bibliographies, research, and experiments. Prerequisite: FACS 3120.

### Professional

**FACS 3710 Organization of Vocational Family and Consumer Sciences Education (3)** The philosophy of vocational family and consumer sciences education, curriculum development and implementation, department management, career development, and student organization management. Prerequisites: EDCI 2100 and 10 semester hours of courses required in the functional major.

**FACS 4725 Secondary Field Experience II\* (1)** Experiences in the secondary school classroom that provide the teacher candidate more advanced involvement in the teaching-learning process. Prerequisites: admission to Teacher Education Program; should be taken concurrently with FACS 4740 during the Professional Semester. \*Not available for graduate credit.

**FACS 4740 Methods of Teaching Vocational Family and Consumer Sciences\* (3)** Prerequisites: 15 semester hours of family and consumer sciences with 5 semester hours of foods and nutrition, 5 semester hours of textiles and clothing, and 5 semester hours in related subjects; EDSP 2100; EDCI 4300 or concurrently; and admission to Teacher Education Program; double majors must take a methods course for each major; methods should be taken concurrently with FACS 4725 during the Professional Semester. \*Not available for graduate credit.

**FACS 4750 Curriculum in Family and Consumer Sciences Education (2)** Design of programs and courses for consumer homemaking or occupational family and consumer sciences education including theory, principles, development and implementation, federal and state guidelines, trends and issues. Prerequisite: FACS 4740 or equivalent.



## Technology Education

### TECHNOLOGY EDUCATION

#### Major, Bachelor of Science in Ed. Degree

Certification to teach technology education in grades 9-12 (41-229)

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

- Be capable of implementing a contemporary technology education program based on the Standards for Technological Literacy
- Possess a conceptual understanding of 1) the nature and history of technology and, 2) the influence of technology on society and the environment
- Demonstrate competence with various technologies including design, communication, manufacturing, construction, transportation, energy, and computer technology
- Employ and teach problem solving methods to solve technical problems
- Demonstrate the ability to operate lab equipment in an efficient and safe manner, and teach accordingly
- Demonstrate the ability to operate, schedule and control labs for technology education programs
- Display professional habits including involvement in professional associations related to Technology Education, continuous learning, and collegiality

Sem. Hours

#### MAJOR REQUIREMENTS . . . . . 39

##### Communication Technology

GRAP 1010	Fundamentals of Printing Processes . . . . .	3
GRAP 1110	Fundamentals of Drafting . . . . .	2
GRAP 4570	Computer Graphics . . . . .	3

##### Energy and Power Technology

ET 1020	General Electronics . . . . .	3
ET 1010	Applied Electricity, 3 or	
ET 2020	Industrial Electricity, 3 . . . . .	3
PR&T 1010	Power Mechanics . . . . .	3

##### Materials and Processes Technology

MMGT 1010	Mat. for Mfg. & Construction . . . . .	3
CMGT 2310	Construction Plans & Specs. . . . .	3
MMGT 3550	Principles of Numerical Control, 3 or	
MMGT 4520	Robotics and Automation, 3 . . . . .	3

##### Organization and Administration

CTE 4145	Curriculum Construction in Career & Technology Education . . . . .	3
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##### Foundation

T&OE 2000	Technology & Change . . . . .	3
IGEN 3116	Creative Problem Solving . . . . .	3

Departmentally approved elective. A listing of courses is available from the Chair of the Department 3

#### MINOR REQUIREMENTS . . . . . 18-24

#### GENERAL EDUCATION REQUIREMENTS (pages 34-43)

In the major, T&OE 2000 fulfills 2 s.h. in Div. IIA; IGEN 3116 fulfills 3 s.h. in Div. IV A . . . . . 43

BIOL 1003	Div. II A (required) . . . . .	3
PHYS 1104	Div. II A (required) . . . . .	4
HIST 1350	Div. II B or	
HIST 1351	Div. II B (required) . . . . .	3
POLS 1510	Div. II B (required) . . . . .	3
PSY 4230	Psy. of Adolescence . . . . .	3
GEOG 3201	Div. II D (required) . . . . .	3

Secondary Education students will be allowed to substitute PSY 4230 to fulfill 3 s.h. in Div. II B.

#### PROFESSIONAL EDUCATION REQUIREMENTS (page 115) . . . . . 28

#### MINIMUM TOTAL . . . . . 128

### TECHNOLOGY EDUCATION

#### Minor, Bachelor of Science in Ed. Degree

Certification to teach technology education in grades 5-9 available only with a major in middle school-junior high school (241)

Sem. Hours

#### MINOR REQUIREMENTS . . . . . 21

T&OE 2000	Technology & Change . . . . .	3
CTE 4145	Curriculum Construction in Career & Technology Education . . . . .	3
ET 1010	Applied Electricity . . . . .	3
GRAP 1110	Fundamentals of Drafting . . . . .	2
MMGT 1010	Mat. for Mfg. & Construction . . . . .	3
PR&T 1010	Power Mechanics . . . . .	3

Departmentally approved elective. A listing of courses is available from the Chair of the Department . . . . . 3

#### GENERAL EDUCATION REQUIREMENTS (pages 34-43)

In the minor, T&OE 2000 fulfills 2 s.h. of Div. II A

## Occupational Education

### OCCUPATIONAL EDUCATION

#### Functional Major, Bachelor of Science Degree

This "2+2" program is designed to build upon an Associate Degree and may complete Missouri Vocational Teaching Certification requirements for Trade, Industrial and Health Sciences Instructors (43-249)

Sem. Hours

#### FUNCTIONAL MAJOR REQUIREMENTS . . . . . 82

Completed at UCM

EDCI 3500	Secondary Teaching & Behavioral Mgt. . . . .	3
GRAP 4570	Computer Graphics . . . . .	3
IGEN 3116	Creative Problem Solving . . . . .	3
T&OE 2000	Technology and Change . . . . .	3
T&OE 3060	Technical Writing . . . . .	3
T&OE 4022	Occupational Administration/ Teaching Internship . . . . .	3
T&OE 4180	Adult Programs . . . . .	3
Teaching Specialty Area: . . . . .		19

Courses transferring from AAS degree

EDCI 2240	Educational Psychology . . . . .	3
CTE 4145	Curriculum Construction in Career & Technology Education . . . . .	3
CTE 4110	Foundations of Career & Tech. Ed. . . . .	3
T&OE 4140	New Teacher Institute . . . . .	3
T&OE 4150	Vocational Guidance . . . . .	3
CTE 4160	Meth. of Tchg. Career & Tech. Ed. . . . .	3
Teaching Specialty Area: . . . . .		24

Teaching Specialty Area: Trade/Technical, Health Occupations or Technical Electives (primary or support area; any appropriate area of technology). EDCI 2240 must be taught by a state-approved two-year or four-year institution. CTE 4145, CTE 4110, T&OE 4140, T&OE 4150, and CTE 4160 must be taught by a state-approved four-year institution.

#### MINOR NOT REQUIRED

#### GENERAL EDUCATION REQUIREMENTS

In the major, T&OE 2000 fulfills 3 s.h. in Div. II A; IGEN 3116 fulfills 3 s.h. in Div. IV A . . . . . 42

From the AAS Degree, 21 semester hours apply to General Education; balance (27 semester hours to include T&OE 2000 and IGEN 3116) taken at UCM.

#### MINIMUM TOTAL . . . . . 124

**T&OE 1090 Exploratory Problems in T&OE (1-3)** Individual or group work on introductory level technical problems in technology and occupational education. Provide exploration of content not available through normal course offerings. *May be repeated for a maximum of 6 hours.* Prerequisites: written contract/proposal with objectives and departmental consent.

**T&OE 2000 Technology and Change (3)** Explores the nature of technology, technological systems found in all cultures, the control of technology, and implications for change.

**T&OE 3022 Internship in Technology (1-9)** Provides practical application and experience in cooperating industry and business. Students submit written reports. Evaluation by on-job supervisor and internship coordinator. *May be repeated for a maximum of 12 semester hours.* Prerequisites: 20 semester hours of program offerings, minimum undergraduate GPA 2.00 and permission of department chair.

**T&OE 3060 Technical Writing (3)** Technical writing basics, techniques, and applications. Uses a practical focus so students internalize the skills necessary to produce clear and effective documents and reports.

**T&OE 4000 Special Projects in Technology and Occupational Education (1-3)** Investigation of contemporary problems and issues in technology and occupational education by selected individuals or groups. *May be repeated for a maximum of 6 semester hours.* Prerequisites: written contract/proposal with objectives and written department consent.

**T&OE 4020 Technology Education for Elementary Schools (3)** Students will design, construct, and finish inexpensive three-dimensional projects for the purpose of developing skills and understandings in the use of tools, materials and processes as they relate to the integration of constructional activities in the elementary school.

**T&OE 4022 Occupational Administration/Teaching Internship (1-3)** Provides a mentored administration/teaching experience at the secondary/post-secondary level. Evaluation by on-site mentor and Coordinator of Technology and Occupational Education. *May be repeated for a maximum of 6 semester hours.* Prerequisites: CTE 4145, CTE 4160, and permission of the Coordinator of T&OE.

**T&OE 4090 Special Problems in Technology and Occupational Education (1-3)** Meets student needs for additional research and/or laboratory experience in the development of technical knowledge and skills in the areas of technology and occupational education. *May be repeated for a maximum of 6 semester hours.* Prerequisites: written contract/proposal with objectives and written department consent.

**T&OE 4120 Secondary Field Experience II\* (1)** Experiences in the secondary school classroom that provide the teacher candidate more advanced involvement in the teaching-learning process. Prerequisites: admission to Teacher Education Program; should be taken concurrently with CTE 4160 during the Professional Semester. \*Not available for graduate credit.

**T&OE 4140 New Teacher Institute (3)** Develop teaching/instructional management skills needed to perform effectively in classrooms/laboratories. Includes structured activities designed to assist beginning vocational-technical teachers during their first teaching years.

**T&OE 4150 Vocational Guidance (3)** Facilitate awareness and ability in vocational guidance. Includes problems, methods, and procedures for assisting individuals in choosing, preparing for, entering, and progressing in their vocation.

**T&OE 4180 Adult Programs in Occupational Education (3)** Principles, objectives, philosophies, organization, administration, and supervision of adult health, agricultural, industrial, and homemaking occupations.

### Integrative Studies General

**IGEN 3116 Creative Problem Solving (3)** A broad approach to formal techniques in creative problem solving applicable to any field of endeavor and interest. An additional fee is assessed for this course. Fashion and Apparel Merchandising

## Teacher Education Policies and Procedures CERTIFICATION

The teacher certification program offered by UCM is accredited nationally by the National Council for Accreditation of Teacher Education. Programs in education also meet certification requirements set by the Missouri Department of Elementary and Secondary Education.

Missouri state regulations stipulate these basic requirements for students seeking initial teacher certification (or extended certification in some instances): (1) for admission to teacher education programs, passing all sections of the College Basic Academic Subjects Examination (C-BASE) and receiving a grade of "C" or better in an oral communications class; (2) a minimum cumulative grade-point average of 2.50 on a 4-point scale on all college work attempted prior to initial certification; (3) a minimum grade-point average of 2.50 on a 4-point scale in each initial certificate subject area, and any additional area of endorsement for extended certification; (4) a minimum grade-point average in professional education courses of 2.50, with no grade lower than "C"; "professional education courses" are defined as those listed in the state certificate requirements as (a) Foundations of Teaching, (b) Teaching Methods, and (c) Clinical Experiences; (5) completion of a PRAXIS II subject assessment with a score no lower than a minimum determined by the state of Missouri for each test ("exit test"); (6) completion of a student performance portfolio addressing state standards; (7) for all persons seeking school administrator certification, satisfactory appraisal upon completion of the state Administrator Assessment Center program.

Initial teacher certification may be earned at UCM via completion of the Bachelor of Science in Education degree, the Bachelor of Music Education degree and in certain instances the Bachelor of Science degree. Students may apply for certification upon completion of degrees with major and minor programs that are designated as meeting certification guidelines of the state of Missouri. The degree earned, however, does not automatically lead to certification; failing to complete satisfactorily the "exit test" requirement with the portfolio (see above) does not prevent the awarding of the degree but will be cause for non-issuance of the certificate. Initial teacher certification may also be obtained through a post-baccalaureate program. In addition, UCM has instituted an alternative program for certification for people with degrees not in education who are otherwise eligible for immediate employment in a school position. See the Director of Clinical Services and Certification for further information about both of these special programs.

UCM offers undergraduate majors in the following fields which lead to initial teacher certification:

- Agriculture Education (Vocational)
- Art
- Business Education
- Early Childhood Education
- Elementary Education
- English
- Family and Consumer Science
- Mathematics
- Middle School-Junior High School Education
- Modern Languages (French, German, or Spanish)
- Music, Instrumental and/or Vocal
- Physical Education
- Sciences (Biology, Chemistry, Earth Science, Physics)
- Social Studies
- Special Education (Cross-Categorical, Severely Developmentally Disabled, Early Childhood Special Education)
- Speech Communication and Theatre
- Technology Education

NOTE: Other certification programs are available that require initial certification or graduate degrees. See the Graduate Catalog for further information.

UCM offers minor programs in many of the above areas that may provide teacher certification for grades 5-9 or K-9. In addition, the following minors, all requiring completion of a major teaching program, are available:

Driver Education  
Health Education  
Journalism  
Science Education 5-9

### ADMISSION TO THE TEACHER EDUCATION PROGRAM

Students seeking an initial teaching certificate (as candidates for the Bachelor of Science in Education, the Bachelor of Science, or the Bachelor of Music Education degrees, or as post-baccalaureate students) must gain admission to the University of Central Missouri Teacher Education Program.

Admission to Teacher Education is required before enrolling in courses identified as PROFESSIONAL EDUCATION REQUIREMENTS (with the exception of the courses listed below) as well as those courses identified by departments representing the major area of study in the preparation for teaching.

1. Application for admission.
2. Evidence of having completed a minimum of 48 semester hours of college credit, have a cumulative GPA of at least 2.50, and be currently enrolled at UCM.
3. Completion of the following courses with a grade of C or higher:
  - A. EDCI 2100, Foundations of Education and Field Experience
  - B. EDCI 2240, Educational Psychology (or equivalent course)
  - C. ENGL 1020, Composition I (or approved equivalent course emphasizing writing skills)
  - D. College-level mathematics course (at the level of MATH 1111, 1150, or 1620)
  - E. An oral communication course (COMM 1000 or equivalent course).
4. Recommendation for admission from the department representing the major area of study in the preparation for teaching (interviews or other means of assessment as determined by individual departments).
5. Evidence of having passed all sections of the C-BASE (undergraduates only - Post-Baccalaureate students are exempt.)
6. Satisfactory criminal history background check. No student will be admitted to teacher education if he/she has been convicted of a felony. (Post-Baccalaureate students may contact the Office of Clinical Services and Certification to clarify admission requirements.)

NOTE: Any appeal regarding denial of Admission to the Teacher Education Program should be addressed in writing to the chair of the Teacher Education Council. Further appeal should be directed to the Dean of the College of Education and Human Services.

### ADMISSION TO THE PROFESSIONAL EDUCATION SEMESTER AND STUDENT TEACHING

The professional education semester is generally the final semester of the program, and student teaching is the primary component.

Approval for admission to the professional education semester, including student teaching, involves meeting or completing the following minimum requirements:

1. Admission to the Teacher Education Program.
2. Submission of a completed request by December 1 for the Fall Semester, or May 1 for the Spring Semester.
3. Completion of a minimum of 90 semester hours of university credit prior to the beginning of student teaching; meeting all prerequisites for professional semester courses and student teaching.
4. A minimum cumulative grade-point average of 2.50 on all university work attempted, on all courses taken at UCM, and in the field or fields for which teacher certification is being sought (determined on the basis of courses approved for the teaching area, whether taken at UCM or elsewhere).
5. A satisfactory appraisal for student teaching from each department or area in which student teaching placement is requested.
6. Evidence of computer proficiency. (A computer course may be taken for credit or the requirement may be met by other coursework.)
7. A doctor's certificate or other evidence of good health, if required by the school system where the student is placed for student teaching.
8. Students using UCM for certification must have earned a minimum of six semester hours of credit at UCM before qualifying for student teaching.

NOTE: Students who are deficient in one or more of the requirements for Admission may petition the Teacher Education Council for permission to enroll in the Professional Education Semester. This petition privilege does not include C-BASE.

NOTE: The Teacher Education Council requires the PRAXIS II be taken prior to the student teaching semester.

NOTE: The Director of Certification will not sign an academic contract for an undergraduate student requesting permission to teach while under contract with a school district unless there are unusual or extreme circumstances. Contact the Office of Clinical Services and Certification for additional information.

All requirements set by the state of Missouri for certification following completion of university requirements must be met prior to endorsement for certification by the appropriate university official, including the following: (1) minimum overall GPA of 2.50; (2) minimum GPA of 2.50 in the certificate subject area and in professional education courses; (3) no grade lower than "C" in professional education courses; (4) minimum score on the specialty test of the PRAXIS II specialty subject assessment that is applicable to the initial certificate endorsement being requested.

### FEDERAL FINANCIAL AID

Students completing initial teacher certification as part of completion of the first bachelors or graduate degree may receive federal and state grant, loan and employment assistance in accordance with their calculated eligibility. Students pursuing teacher certification after completion of the first bachelors degree may receive only federal loan and work assistance. In both circumstances, the Free Application for Federal Student Aid (FAFSA) must be submitted to determine the student's eligibility for aid.

## Curriculum and Instruction

In the Department of Curriculum and Instruction, the second digit in the course number stands for the following: 0-Special Projects, 1-Foundations, 2-Reading, 3-Curriculum and Instruction, 4-Elementary Education, 5-Secondary Education, 6-Adult Education, 7-Special Methods, 8-Early Childhood Education, 9-Individual Study and Research.

### Accreditation

The Curriculum and Instruction programs are accredited by the National Council for Accreditation of Teacher Education located at 2010 Massachusetts Ave. NW, Suite 500, Washington, DC 20036; phone 202-466-7496; email ncate@ncate.org.

### EARLY CHILDHOOD EDUCATION

#### Minor, Bachelor of Science in Education Degree

Certification to teach grades B-3 only with an elementary education functional major; available with no certification when used with other major areas.  
(723)

			Sem. Hours
<b>MINOR REQUIREMENTS</b> . . . . .			<b>28</b>
EDCI	2830	Early Childhood Principles . . . . .	3
EDCI	3850	Dev. & Learning Through Play . . . . .	3
EDCI	4830	Early Childhood Curriculum . . . . .	3
PE	2410	Movement Skills & Activities for Primary Grades . . . . .	2
EDSP	3150	Community & Family Resources . . . . .	2
EDSP	3151	Community & Family Resources Practicum . . . . .	1
EDSP	4370	Screening, Diagnosing & Prescribing Instructions . . . . .	3
CFD	1220	Child Development . . . . .	3
CFD	3250	Org. & Adm. of Programs for Young Children . . . . .	3
CFD	3260	Pract. in Child Development . . . . .	1
D&N	2310	Early Childhood Nutr. & Health . . . . .	2
CD	2000	The Bases of Speech & Lang. . . . .	2

### Clinical Experiences for Teacher Education Students Early Field Experience

Education students are required to participate in early field/clinical experiences prior to student teaching. All education majors enroll in a six-hour block of educational foundations courses, scheduled to provide flexibility for off-campus time in field experiences, typically taken at the sophomore level. The field experience portion of this block is incorporated in EDCI 2100.

Early childhood, elementary and middle school majors have a field experience in EDCI 3210 (Methods of Reading Instruction). Early childhood majors have additional field experiences in EDSP 3151 (Community and Family Resources Practicum), EDCI 4830 (Early Childhood Curriculum) and EDCI 4400 (Classroom Management and Interactions). Elementary education majors have additional field experiences in EDCI 4250 (Practicum in Reading) and EDCI 4400 (Classroom Management and Interactions). Middle school majors have additional field experience in EDCI 4130 (The Middle School) and EDCI 4340 (Middle School Curriculum and Instruction).

Secondary majors, after EDCI 2100 complete their second field experience in EDCI 3550 (Practicum in Secondary Instruction) and their third in Secondary Field Experience II in their major field which is offered in conjunction with the special methods course in the Professional Education Semester.

### Professional Education Semester

Early childhood, elementary and middle school majors using this catalog are required to student teach for 14 weeks, earning 12 semester hours during the Professional Education Semester.

Majors in special education using this catalog are required to student teach for a minimum of 12 weeks (usually 14), earning 12

semester hours during the Professional Education Semester. Secondary and K-12 education majors must plan for a senior semester in which they enroll full-time in a professional block of courses which includes student teaching. The 16-week semester consists of two parts-four weeks on campus in 3-4 semester hours of course work and twelve weeks of student teaching (all day, five days a week in a school setting). Secondary and K-12 majors customarily enroll in Secondary Field Experience II in their major field, and EDCI 4595 and ICAP 4468. See the appropriate department program listing for any variations in this requirement. Students following programs not clearly covered by these general statements or the department program listing should see the Director of Clinical Services and Certification for information. Elementary majors with a special education area of concentration/minor will be assigned two additional hours of student teaching.

Attendance at all professional education semester activities is required. Any exceptions must be approved by the Director of Clinical Services and Certification.

### Clinical Faculty for the Teacher Education Program

UCM's education majors participate in a field experience with one of the Professional Development School partners. The Teacher Education Program has formal partnership agreements with Warrensburg, Crest Ridge and Holden School Districts. Additional districts may be added to the PDS program over time. Many of the public school faculty from the two districts serve as clinical faculty for UCM, and work with interns in the P-12 classrooms or present on educational issues in the university courses.

All teacher education students seeking initial certification will be able to demonstrate the knowledge and skills obtained in the program to meet the outcomes of Missouri Standards for Teacher Education Programs (MoSTEP). The graduate of a teacher education program will use the knowledge and skills obtained in the program to:

- Understand the central concepts, tools of inquiry and structures of the discipline(s) within the context of a global society and create learning experiences that make these aspects of subject matter meaningful for students.
- Understand how students learn and develop, and provide learning opportunities that support the intellectual, social, and personal development of all students.
- Understand how students differ in their approaches to learning and create instructional opportunities that are adapted to diverse learners.
- Recognize the importance of long-range planning and curriculum development and develop, implement, and evaluate curriculum based upon student, district, and state performance standards.
- Use a variety of instructional strategies to encourage students' development of critical thinking, problem solving, and performance skills.
- Use an understanding of individual and group motivation and behavior to create a learning environment that encourages positive social interaction, active engagement in learning, and self-motivation.
- Model effective verbal, nonverbal, and media communication techniques to foster active inquiry, collaboration, and supportive interaction in the classroom.
- Understand and use formal and informal assessment strategies to evaluate and ensure the continuous intellectual, social, and physical development of the learner.
- Be a reflective practitioner who continually assesses the effects of choices and actions on others. This reflective practitioner actively seeks out opportunities to grow professionally and utilizes the assessment and professional growth to generate more learning for more students.
- Foster relationships with school colleagues, parents, and educational partners in the larger community to support student learning and well-being.
- Understand theories and applications of technology in educational settings and has adequate technological skills to create meaningful learning opportunities for all students.

**ELEMENTARY EDUCATION**

**Functional Major, Bachelor of Science in Education Degree**

Elementary teacher certification in Missouri is available at two levels; for Grades 1-6 and for early childhood education Birth-Grade 3. Careful program planning could lead to certification in both of these levels, or for elementary with special education certification. Students interested in two levels of certification should see the Director of Clinical Services and Certification.

		Sem. Hours
<b>CORE REQUIREMENTS</b> .....		<b>28</b>
EDCI	3210 Methods of Reading Instruction .....	3
EDCI	3220 Teaching of the Language Arts .....	3
EDCI	2310 Computer/Technology in Ed. ....	2
EDCI	4350 Elem. Science Tchg. Strategies .....	3
EDCI	3410 Children's Literature .....	2
EDCI	3420 Tchg. Social Studies & Economics in Elementary & Middle Schools .....	3
HED	3310 Meth. in Elem. School Health .....	2
HED	4330 First Aid & CPR for Educators .....	1
ART	3910 Art for Elementary Schools .....	2
MATH	1800 Introduction to Teaching Elementary & Middle School Mathematics .....	2
MATH	2801 Concepts & Methods in Elementary School Mathematics .....	3
MUS	3301 Music for Elementary Schools .....	2

**GENERAL EDUCATION REQUIREMENTS (pages 34-43)..... 48**

In the functional major, HED 3310 and HED 4330 will be allowed to fulfill 3 s.h. of Div. III; IGEN 3468 fulfills 3 s.h. of Div. IV A

COMM	1000 Div. I B (required) .....	3
MATH	1620 Div. I C (required) .....	3
Science Choice	Group I or Group II of Div. II A .....	7
Group I		
EDCI	1320 Biology for Teachers .....	3
EASC	1004 Div. II A or	
CHEM	1104 Div. II A or	
PHYS	1104 Div. II A (required) .....	4
or		
Group II		
EDCI	1310 Physics for Teachers .....	3
BIOL	1004 Div. II A (required) .....	4
POLS	1510 Div. II B (required) .....	3
HIST	1350 Div. II B or	
HIST	1351 Div. II B (required) .....	3
GEOG	2212 Div. II B (required) .....	3
ART	1800 Div. II C or	
MUS	1210 Div. II C (required) .....	3
Modern (Foreign) language	Div. II C (required) .....	3
EDCI	2110 Div. II D (required) .....	3

Elementary Education functional majors will be allowed to substitute EDCI 1310 or EDCI 1320 to fulfill 3 s.h. of Div. II A.

**GRADES 1-6**

**Functional Major Option, Bachelor of Science in Education Degree (41-720)**

Certification to teach elementary education in grades 1-6

		Sem. Hours
<b>FUNCTIONAL MAJOR REQUIREMENTS</b> .....		<b>36</b>
<b>CORE REQUIREMENTS</b> .....		<b>28</b>
EDCI	3215 Tchg. Reading in Content Fields .....	3
EDCI	4220 Analysis & Corr. of Rdg. Disabil. ....	2
EDCI	4250 Practicum in Reading .....	1
PE	3420 Elem. School Phys. Ed. Activities .....	2

**AREA OF CONCENTRATION REQUIREMENTS** .....

An approved minor/area of concentration in a teaching/specialty area appropriate for elementary majors.

Select one approved minor/area of concentration from the following: Art (27 s.h.), English (24 s.h.), Family and Consumer Science (25 s.h.), French (21 s.h.), German (21 s.h.), Health Education (22 s.h.),

Instructional Media Technology (23 s.h.), Mathematics (24-25 s.h.), Science (24 s.h.), Social Studies (26-27 s.h.), Special Education (26 s.h.), Speech Communications/Theatre (21 s.h.), Spanish (21 s.h.).  
Note: Elementary majors with special education minor/area of concentration will be assigned two additional hours of student teaching.

**GENERAL EDUCATION REQUIREMENTS (pages 34-43 and listed for this program) .....**

<b>PROFESSIONAL EDUCATION REQUIREMENTS</b> .....		<b>31</b>
EDCI	2100 Foundations of Education & Field Experience .....	3
EDCI	2101 Models of Teaching .....	2
EDCI	4400 Classroom Mgt. & Interactions .....	3
EDCI	4495 Student Tchg. Elementary I .....	6
EDCI	4496 Student Tchg. Elementary II .....	6
IGEN	3468 Community, School & Family Connections .....	3
EDCI	2240 Educational Psychology .....	3
PSY	2220 Child Psychology, 3 or	
PSY	3220 Lifespan Development, 3 .....	3
EDSP	2100 Ed. of the Exceptional Child, 2 or	
PSY	4200 Psy. of Exceptional Children, 2 .....	2
<b>MINIMUM TOTAL</b> .....		<b>130</b>

**EARLY CHILDHOOD, Birth-Grade 3**

**Functional Major Option, Bachelor of Science in Education Degree (41-722)**

Certification to teach early childhood education and elementary education, Birth-Grade 3

		Sem. Hours
<b>FUNCTIONAL MAJOR REQUIREMENTS</b> .....		<b>28</b>
<b>Core Requirements</b> .....		<b>28</b>
<b>AREA OF CONCENTRATION REQUIREMENTS</b> .....		<b>28</b>
EDCI	2830 Early Childhood Principles .....	3
EDCI	3850 Dev. & Learning Through Play .....	3
EDCI	4830 Early Childhood Curriculum .....	3
CFD	1220 Child Development .....	3
CFD	3250 Org. & Adm. of Programs for Young Children .....	3
CFD	3260 Pract. in Child Development .....	1
D&N	2310 Early Childhood Nutr. & Health .....	2
PE	2410 Movement Skills & Activities for Primary Grades .....	2
EDSP	3150 Community & Family Resources .....	2
EDSP	3151 Community & Family Resources Practicum	1
EDSP	4370 Screening, Diagnosing & Prescribing Instructions .....	3
CD	2000 The Bases of Speech & Lang. ....	2

**GENERAL EDUCATION REQUIREMENTS (pages 34-43) and listed for this program) .....**

<b>PROFESSIONAL EDUCATION REQUIREMENTS</b> .....		<b>31</b>
EDCI	2100 Foundations of Education & Field Experience .....	3
EDCI	2101 Models of Teaching .....	2
EDCI	4400 Classroom Mgt. & Interactions .....	3
EDCI	4493 Student Tchg. Early Childhood I .....	6
EDCI	4496 Student Tchg. Elementary II .....	6
IGEN	3468 Community, School & Family Connections .....	3
EDCI	2240 Educational Psychology .....	3
PSY	2220 Child Psychology, 3 or	
PSY	3220 Lifespan Development, 3 .....	3
EDSP	2100 Ed. of the Exceptional Child, 2 or	
PSY	4200 Psy. of Exceptional Children, 2 .....	2
<b>MINIMUM TOTAL</b> .....		<b>129</b>

**MIDDLE SCHOOL-JUNIOR HIGH SCHOOL**

**Major, Bachelor of Science in Education Degree**

Certification to teach language arts, grades 5-9, and selected area(s) of concentration/endorsement, grades K-9 or 5-9 (41-840)

Sem. Hours

**MAJOR REQUIREMENTS . . . . . 38**

EDCI	4130	The Middle School . . . . .	3
EDCI	3210	Methods of Reading Instruction . . . . .	3
EDCI	3220	Teaching of the Language Arts . . . . .	3
EDCI	3230	Content Area Literacy in the Middle School . . . . .	3
EDCI	4220	Analysis & Corr. of Rdg. Disabil. . . . .	2
EDCI	4250	Practicum in Reading . . . . .	1
EDCI	2310	Computer/Technology in Ed. . . . .	2
EDCI	3440	Literature for the Middle Level . . . . .	2
HED	4310	Drugs & Youth . . . . .	3
HED	4320	Teaching Sexuality Education in the School . . . . .	3
HED	4330	First Aid & CPR for Educators . . . . .	1
ENGL	1020	Composition I . . . . .	3
ENGL	1030	Composition II . . . . .	3
MATH	3812	Mathematics in the Integrated Middle School Curriculum . . . . .	3
ENGL	2205	American Lit. 1865 to Present, 3 or	
ENGL	2220	World Masterpieces, 3 . . . . .	3

A student with a math minor will not enroll in MATH 3812, see minor adviser.

**MINOR REQUIREMENTS . . . . . 21-27**

Select one area of concentration from the following list: Art (27 s.h.), Business Education (21 s.h.), English (24 s.h.), Family and Consumer Science (30 s.h.), French (21 s.h.), Health Education (22 s.h.), Mathematics (24-25 s.h.), Science (24 s.h.), Social Studies (26-27 s.h.), Speech Communication & Theatre (21 s.h.), Spanish (21 s.h.), Technology Education (21 s.h.)

**GENERAL EDUCATION REQUIREMENTS** (pages 34-43) In the major, ENGL 1020 and ENGL 1030 fulfill 6 s.h. of Div. I A; ENGL 2205 or ENGL 2220 fulfills 3 s.h. of Div. II C; IGEN 3468 fulfills 3 s.h. of Div. IV A . . . . . 36

MATH	1620	Div. I C (required) . . . . .	3
Science Choice		Group I or Group II of Div. II A . . . . .	7
<b>Group I</b>			
EDCI	1320	Biology for Teachers . . . . .	3
EASC	1004	Div. II A or	
CHEM	1104	Div. II A or	
PHYS	1104	Div. II A (required) . . . . .	4
<b>or</b>			
<b>Group II</b>			
EDCI	1310	Physics for Teachers . . . . .	3
BIOL	1004	Div. II A (required) . . . . .	4
POLS	1510	Div. II B (required) . . . . .	3
GEOG	2212	Div. II B (required) . . . . .	3
HIST	1350	Div. II B or	
HIST	1351	Div. II B (required) . . . . .	3
Modern (Foreign) language		Div. II C (required) . . . . .	3
EDCI	2110	Div. II D (required) . . . . .	3
PSY	4230	Psy. of Adolescence, 3 or	
PSY	3220	Lifespan Development, 3 . . . . .	3

Middle School majors will be allowed to substitute EDCI 1310 or EDCI 1320 to fulfill 3 s.h. of Div. II A and to substitute PSY 4230 to fulfill 3 s.h. in Div. III.

**PROFESSIONAL EDUCATION REQUIREMENTS . . . . . 32-33**

EDCI	2100	Foundations of Education & Field Experience . . . . .	3
EDCI	2101	Models of Teaching . . . . .	2
EDCI	4300	Ed. Measurement & Evaluation . . . . .	2
EDCI	4340	Tchg. Strategies in the Middle School . . . . .	3
EDCI	4497	Student Tchg. Middle School I . . . . .	6
EDCI	4498	Student Tchg. Middle School II . . . . .	6
IGEN	3468	Community, School & Family Connections . . . . .	3

EDCI	2240	Educational Psychology . . . . .	3
EDSP	2100	Ed. of the Exceptional Child, 2 or	
PSY	4200	Psy. of Exceptional Children, 2 . . . . .	2

A teaching methods course is required for each area of concentration or area of endorsement . . . . . 2-3

**MINIMUM TOTAL . . . . . 127**

**PROFESSIONAL EDUCATION REQUIREMENTS FOR SECONDARY EDUCATION**

**Bachelor of Science in Education and Bachelor of Music Education Degrees**

Bachelor of Science in Education and Bachelor of Music Education degree programs include the following professional education components toward the total of a minimum of 124 semester hours required. A teaching degree shall include a major and a minor, two teaching majors, or a functional major. (Minors need not be in a teaching field.) Majors, functional majors, and minors leading to certification to teach are listed in the respective departments or service fields with teaching programs. Professional education requirements listed here apply to each secondary or K-12 program, with exceptions as noted in certain majors.

Before being admitted to the Professional Education Semester, secondary education candidates must have completed a course in adolescent psychology (PSY 4230 or PSY 3220, Lifespan Development).

Sem. Hours

**MAJOR OR FUNCTIONAL MAJOR REQUIREMENTS . . . . . 30-67**

UCM offers certification as indicated under Certification (see pages 111-112) in the College of Education.

**MINOR REQUIREMENTS . . . . . 0-25**

UCM offers certification as indicated under Certification (see pages 111-112) in the College of Education.

**GENERAL EDUCATION REQUIREMENTS** (pages 34-43) In the professional education requirements, ICAP 4468 fulfills 3 s.h. of Div. IV B) . . . . . 45

**PROFESSIONAL EDUCATION REQUIREMENTS . . . . . 28-29**

EDCI	2100	Foundations of Education & Field Experience . . . . .	3
EDCI	4210	Tchg. of Rdg. in the Sec. School . . . . .	2
EDCI	4300	Ed. Measurement & Evaluation . . . . .	2
EDCI	3500	Sec. Tchg. & Behavioral Mgt. . . . .	3
EDCI	3550	Practicum in Secondary Instruction . . . . .	1
		Secondary Field Experience II in major field . . . . .	1
EDCI	4595	Student Teaching Secondary I . . . . .	5
EDCI	2240	Educational Psychology . . . . .	3
PSY	4200	Psy. of Exceptional Children, 2 or	
EDSP	2100	Ed. of the Exceptional Child, 2 . . . . .	2
ICAP	4468	Student Teaching Secondary II . . . . .	4
		Special methods in major field . . . . .	2-3

Minimal computer literacy and proficiency in media technology are required prior to student teaching. These requirements may be met by EDCI 2310 - 2 hours. Majors in Business Education, Technology Education, Mathematics, Physical Education, Vocational Agriculture, and Vocational Family and Consumer Science satisfy computer proficiency through their programs, but meet the audio-visual requirements through EDCI 3500.

**FREE ELECTIVES . . . . . 0-11**

See program listings as indicated above for number of hours available.

**MINIMUM TOTAL . . . . . 124**

**SCIENCE**

**Minor, Bachelor of Science in Education Degree**

Certification available to teach science in grades 5-9 for elementary/middle school-junior high school functional majors only. Elementary education functional majors 1-6 may use this as an area of concentration. This minor is not available for secondary or K-12 education majors.  
(821)

		Sem. Hours
<b>MINOR REQUIREMENTS</b> . . . . .		<b>24</b>
EDCI	1310 Physics for Teachers . . . . .	3
EDCI	1320 Biology for Teachers . . . . .	3
EASC	1004 Intro. to the Sciences: Geology . . . . .	4
EASC	3010 Environmental Geology . . . . .	3
EASC	3114 Meteorology . . . . .	3
BIOL	1004 Intro. to the Sciences: Ecology . . . . .	4
CHEM	1104 Intro. to the Sciences: Chemistry . . . . .	4

**GENERAL EDUCATION REQUIREMENTS** (pages 34-43) In the minor, BIOL 1004 and CHEM 1104 fulfill 7 s.h. of Div. II A.

**Special Projects**

**EDCI 4000 Special Projects in Education (1-6)** Individual or group study of problems in special areas of interest. *May be repeated for a maximum of 6 semester hours.*

**Foundations**

**EDCI 2100 Foundations of Education and Field Experience (3)** An overview of the American public school; its nature, purpose, history, philosophy, organization and administration; contemporary issues and trends. Includes 30 hours of public school classroom observation. Corequisites: should be taken concurrently with EDCI 2240 during the sophomore year. In addition, should be taken concurrently with EDCI 2101 by early childhood, elementary, and middle school majors. An additional fee is assessed for this course.

**EDCI 2101 Models of Teaching (2)** Furnishes the preservice teacher models of teaching and an orientation to the Teacher Education Program. Corequisites: should be taken concurrently with EdCI 2100 and EdCI 2240 during the sophomore year by early childhood, elementary, and middle school majors.

**EDCI 2110 World Diversity and America (3)** Provides an analysis of global interdependence with an emphasis in cultural interaction to better understand human diversity issues, diverse perspectives, one another, and one's own place in the world and America.

**EDCI 2150 Introductory Field Experience (1)** Introductory experiences in the classroom that provide opportunities for becoming involved with students and professional teachers in the school setting. Prerequisite: This course is intended ONLY for transfer students who have taken Foundations of Education at another institution that did not include field experience. Should be taken concurrently with EdCI 2240 during the sophomore year. An additional fee is assessed for this course.

**EDCI 4130 The Middle School (3)** An exploratory course which includes an introduction to philosophy, organization, curriculum and instructional strategies appropriate to the middle school learner. Field experience in a middle school is required for initial certification students. An additional fee is associated with this course.

**EDCI 4150 Summative Seminar\* (1)** A culminating experience for elementary education majors which will provide an opportunity for students to synthesize the learnings from their program. Prerequisites: admission to Teacher Education Program. \*Not available for graduate credit.

**Reading**

**EDCI 2240 Educational Psychology (3)** Furnishes the prospective teacher with the psychological concepts, principles, theories, research findings, and techniques that are relevant to guiding the educative process. Corequisites: should be taken concurrently with EDCI 2100 during the sophomore year. In addition, should be taken concurrently with EDCI 2101 by early childhood, elementary, and middle school majors.

**EDCI 3210 Methods of Reading Instruction (3)** Fundamental concepts, skills, attitudes and methods of developing, promoting and managing reading instruction. The course includes tutoring and teacher-aide field experiences outside of class hours. Prerequisites: 2.5 cumulative GPA; EDCI 2100 and EDCI 2240; EDCI 2101 for early childhood, elementary, and middle school majors.

**EDCI 3215 Teaching Reading in Content Fields (3)** An examination of reading comprehension strategies, study skills, concept development, and critical thinking, especially with regard to the reading demands of content subjects and the needs of typical and atypical learners. Prerequisite: 2.5 cumulative GPA; EDCI 3210 or equivalent; EDCI 2101 for Early Childhood, Elementary, and Middle School Majors.

**EDCI 3220 The Teaching of Language Arts (3)** An integrative approach to teaching the communication arts of reading, writing, listening, and speaking in the elementary curriculum. Prerequisites: 2.5 cumulative GPA; EDCI 2100 and EDCI 2240; EDCI 2101 for Early Childhood, Elementary, and Middle School Education majors.

**EDCI 3230 Content Area Literacy in the Middle School (3)** An examination of reading needs common to content areas and a general reading program at the middle school level. Prerequisites: 2.5 cumulative GPA; EDCI 3210 or equivalent; EDCI 2101 for Early Childhood, Elementary, and Middle School majors.

**EDCI 4210 The Teaching of Reading in the Secondary School (2)** Designed to prepare both the regular secondary teacher to handle reading problems common to his/her special subject matter area and the reading teacher to carry out a general reading program in the high school. Prerequisites: admission to Teacher Education Program; EDCI 2100 and EDCI 2240, or equivalent.

**EDCI 4220 Analysis and Correction of Reading Disabilities\* (2)** A focus on assessment of students' reading abilities and selecting appropriate teaching methods and materials to meet individual needs in reading instruction. The course includes a practicum, or field experience component, which permits application of learning and instructional decision-making. Prerequisites: admission to Teacher Education Program; EDCI 3215 or EDCI 3230 or EDCI 4210. Corequisite: EDCI 4250. \*Not available for graduate credit.

**EDCI 4250 Practicum in Reading\* (1)** A supervised field experience in the assessment of reading, analysis of reading difficulties, and educational decision-making in planning and teaching appropriate lessons. Prerequisites: admission to Teacher Education Program, EDCI 3215 or EDCI 3230 or EDCI 4210. Corequisite: EDCI 4220. \*Not available for graduate credit.

**Curriculum and Instruction**

**EDCI 1310 Physics for Teachers (3)** A demonstration, laboratory, lecture and discussion course in physics designed for elementary and nonscience secondary teachers. Credit earned in this course may not be substituted for any courses required for a secondary major or minor in the sciences.

**EDCI 1320 Biology for Teachers (3)** A demonstration, laboratory, lecture, and discussion course in biology designed for elementary and nonscience secondary teachers. Credit earned in this course may not be substituted for any courses required for a secondary major or minor in the sciences.

**EDCI 2310 Computer/Technology in Education (2)** Provides preservice teachers with basic knowledge and skill in microcomputer and instructional media operation for instructional purposes in schools. Meets the proficiency requirement for microcomputer/audiovisual equipment that is a prerequisite for student teaching.

**EDCI 4300 Educational Measurement and Evaluation (2)** Instruction in the use and interpretation of standardized tests, the construction of classroom tests, and the interpretation of test results.

**EDCI 4314 Integration of Technology in Instruction (3)** Establishes and advances the use of computer technology for both teacher productivity and instructional integration into P-12 classrooms. Prerequisite: EDCI 2310 or consent of instructor.

**EDCI 4340 Teaching Strategies in the Middle School (3)** Middle school teaching strategies building upon middle level organization and curriculum, with particular emphasis on integration and interdisciplinary teaming. Prerequisites: admission to Teacher Education Program, PSY 4230 and EDCI 4130. An additional fee is assessed for this course.

**EDCI 4350 Elementary Science Teaching Strategies (3)** Science concepts commonly developed in the elementary grades, with special emphasis on objective materials, field trips, experiments, laboratory and other activities. Enrollment is limited to students preparing to become elementary teachers. Prerequisites: admission to Teacher Education Program; completion of a physical science and biological science, each with labs, (EDCI 1310 and BIOL 1004) or (EDCI 1320 and EASC 1004 or CHEM 1104 or PHYS 1104).

### Elementary Education

See "Teacher Education" for specific policies and procedures governing the administration of the Teacher Education Program, and for requirements for eligibility for student teaching.

**EDCI 3410 Children's Literature (2)** Familiarity with various types of literature for children, principles for selection of children's books, and methods of presentation for integration of children's literature into the total elementary curriculum. Prerequisites: 2.5 cumulative GPA; EDCI 2100, EDCI 2101 and EDCI 2240.

**EDCI 3420 Teaching Social Studies and Economics in Elementary and Middle Schools (3)** Social studies and economics education competencies are developed. These are related to teaching methods; content, skills, and attitudes; and evaluative devices and assessments. Prerequisites: 2.5 cumulative GPA, EDCI 2100 and EDCI 2240; EDCI 2101 for *Early Childhood, Elementary, and Middle School majors*.

**EDCI 3440 Literature for the Middle Level (2)** Familiarity with various types of literature for middle level children, principles for selection of books, and methods of presentation for integration of literature into the middle school curriculum. Prerequisites: 2.5 cumulative GPA; EDCI 2100, EDCI 2101 and EDCI 2240.

**EDCI 4400 Classroom Management and Interactions\* (3)** Helps pre-service teachers advance their knowledge and skills using general, age appropriate classroom management techniques, integrating them with developmentally appropriate teaching strategies. Prerequisites: admission to Teacher Education Program and should be taken the semester just prior to student teaching. \*Not available for graduate credit.

**EDCI 4493 Student Teaching Early Childhood\* (6)** To be taken in the Professional Semester for early childhood majors and double majors in elementary education. Prerequisites: Admission to Teacher Education Program; 2.5 cumulative GPA; EDCI 4400. Should be taken concurrently with EDCI 4496 or EDSP 4395, depending on the sequence followed. (See description of Professional Education Semester.) \*Not available for graduate credit.

**EDCI 4495 Student Teaching Elementary I\* (3, 5, 6, 8)** To be taken in the Professional Semester. For elementary majors, double majors in elementary education and special education, K-12 majors and elementary physical education. Prerequisites: admission to Teacher Education Program; EDCI 4400. Should be taken concurrently with EDCI 4496 or EDCI 4498 or ICAP 4468 or EDSP 4395, depending on the sequence followed. (See description of Professional Education Semester.) \*Not available for graduate credit.

**EDCI 4496 Student Teaching Elementary II\* (4, 6, 8)** To be taken in the Professional Semester. For elementary classroom majors and majors which provide K-12 certification (except speech pathology). Prerequisite: admission to Teacher Education Program. Corequisite: EDCI 4495 or EDCI 4595. \*Not available for graduate credit.

**EDCI 4497 Student Teaching Middle School I\* (6)** To be taken in the Professional Semester. For middle school majors, double majors in elementary education, special education, or secondary education. Prerequisites: admission to Teacher Education Program; EDCI 4340; should be taken concurrently with EDCI 4498 or ICAP 4468 or EDCI 4496 or EDSP 4395, depending on sequence followed.

\*Not available for graduate credit.

**EDCI 4498 Student Teaching Middle School II\* (6)** To be taken in the Professional Semester. For middle school majors. Prerequisites: admission to Teacher Education Program; should be taken concurrently with EDCI 4497 or EDCI 4495 or EDCI 4595 or EDSP 4395.

\*Not available for graduate credit.

### Secondary Education

See "Teacher Education" for specific policies and procedures governing the administration of the Teacher Education Program, and for requirements for eligibility for student teaching.

**EDCI 3500 Secondary Teaching and Behavioral Management (3)** An analysis of the teaching/learning process with emphasis on instructional planning, component teaching skills and adolescent behavior management. This course should be taken no earlier than one semester prior to student teaching. Analysis of the teaching/learning process with emphasis on instruction and adolescent behavior management. Practical experience of 25 hours at a secondary public school is required. Should be taken no earlier than one semester prior to student teaching. Prerequisite: admission to Teacher Education Program. Corequisite: EDCI 3550. Occupational Education majors need consent of T&OE to enroll. An additional fee is assessed for this course.

**EDCI 3550 Practicum in Secondary Instruction (1)** Requires a minimum of 50 hours of co-teaching with a public school classroom teacher. Prerequisite: admission to Teacher Education Program. Corequisite: EDCI 3500. Should be taken no earlier than one semester prior to student teaching.

**EDCI 4595 Student Teaching Secondary I\* (3, 5-6)** To be taken in the Professional Semester. For secondary and modern language majors. Prerequisites: admission to Teacher Education Program; EDCI 3500. Should be taken concurrently with ICAP 4468 or EDCI 4496 or EDCI 4498, depending on the sequence followed. (See description of Professional Education Semester.) \*Not available for graduate credit.

### Early Childhood Education

**EDCI 2830 Early Childhood Principles (3)** Provides students a critical understanding concerning the application of educational principles in order to make professional decisions about young children (birth-8). Requires a minimum of 30 hours of practical experience. Prerequisite: CFD 1220.

**EDCI 3850 Development and Learning Through Play (3)** Provides theoretical and empirical perspectives connecting play to young children's learning and development. Develops knowledge and skills to implement play-based curriculum in diverse settings. Prerequisites: CFD 1220, EDCI 2830 for students seeking certification in early childhood education. Corequisite: CFD 3260.

**EDCI 4830 Early Childhood Curriculum (3)** Provides students with the theories and principles of curriculum development, knowledge, and skills of implementing integrated (developmentally and culturally appropriate) curriculum in early childhood (birth-8). Prerequisites: admission to Teacher Education Program and EDCI 2830 and EDCI 3850 for undergraduate students seeking certification in early childhood education.

### Integrative Studies Capstone

**ICAP 4468 Student Teaching Secondary II\* (4)** To be taken in the Professional Semester. For all secondary majors, all K-12 majors, and K-9 majors in elementary physical education. Prerequisite: admission to Teacher Education Program. Corequisite: EDCI 4495 or EDCI 4595 or EDSP 4395. \*Not available for graduate credit.

### Integrative Studies General

**IGEN 3468 Community, School and Family Connections (3)** Focuses on the interactions among community, school and family systems relative to existing and emerging paradigms.



## Child and Family Development

In the section of Child and Family Development, the second digit in a course number stands for the following: 0-General, 2-Development, 7-Professional.

### CHILD AND FAMILY DEVELOPMENT

Functional Major, Bachelor of Science Degree (43-121)

Students will be:

- Able to think critically about problems and issues facing children and families.
- Prepared to use developmentally appropriate practices to promote the optimal development of diverse children and families.
- Competent to assume leadership roles in programs providing direct and support services to children and families.
- Articulate advocates for justice for families and children in both public and private arenas.
- Aware of and sensitive to ethical implications in their professional relationships with diverse families and children.

Sem. Hours

**MAJOR REQUIREMENTS** . . . . . 55-61

CFD 1220	Child Development	3
CFD 1230	Observation of Children	2
FACS 2110	Consumer Problems	3
CFD 2240	Field Experience in Early Childhood	3
D&N 2310	Early Childhood Nutr. & Health	2
CFD 3222	Early Childhood	3
CFD 3230	Family Sys. & Lifespan Development	3
CFD 3240	Parent-Child Interaction	3
CFD 3250	Org and Adm. of Programs	3
CFD 3260	Pract. in Child Development	1
EDCI 3850	Dev. & Learning Through Play	2
CFD 4250	Selected Topics (2 - 3 each)	6
CFD 4710	Internship	3
CFD 4745	Senior Seminar	3
EDCI 2310	Computer/Technology in Ed.	2
EDSP 2100	Ed. of the Exceptional Child	2
EDSP 3150	Community & Family Resources	2
EDSP 3151	Practicum Comm. & Family Resources	1
SOC 2805	Introduction to Social Research	3
Departmentally approved electives . . . . . 12		
Choose at least 10 upper level semester hours from the following list.		
EDCI 2830	Early Childhood Principles	3
EDCI 3410	Children's Literature	2
PE 2410	Movement Skills & Activities for Primary Grades	2
ART 3910	Art for Elementary Schools	2
MUS 3301	Music for Elementary Schools	2
WS 2000	Race, Class and Gender	3
COMM3010	Interpersonal Communication	3
CD 4401	Language Development	3
FACS 3120	Family Resource Management	3
NUR 4020	Grief and Loss	2
NUR 4030	Human Sexuality	2
SOC 1830	Social Problems	3
SOWK 2600	Introduction to Social Welfare and Social Work	3

**MINOR NOT REQUIRED**

**GENERAL EDUCATION REQUIREMENTS** (pages 34-43) . . . . . 48

PSY 1100	Div. II B (required)	3
SOC 1800	Div. II B (required)	3
HIST 1350	OR	
HIST 1351	Div. II B (required)	3
EDCI 2110	Div. II D (required)	3
CFD 1010	Div. III (required)	3

**FREE ELECTIVES** . . . . . 12

**MINIMUM TOTAL** . . . . . 124

**CFD 1000 Trends in Child and Family Development (1)** Topics will be tied to Child Development Associate (CDA) competency goals. *May be repeated for a maximum of 6 semester hours.*

**CFD 1010 Individual and Family Relationships (3)** Focus on family relationships and personal development including topics of self-esteem, informed decision making, gender roles, love and mate selection, stress and crisis management, communication and conflict resolution, domestic violence, sexuality, parenting and human diversity.

**CFD 1220 Child Development (3)** An introduction to the field of child development. Emphasis is on dynamic forces underlying growth and change. Techniques in the study and observation of children. Prerequisite: A criminal background check is required in this course. An additional fee is associated with the course.

**CFD 1230 Observation of Children (2)** Techniques of observation and actual observation of children. Only offered Fall semester.

**CFD 2240 Field Experience in Early Childhood (3)** Supervised training and work experience in an approved child care establishment with emphasis on guiding young children in all aspects of development within the group setting. Only offered Fall semester. Prerequisite: CFD 1220.

**CFD 3222 Early Childhood (3)** The physical, motor, intellectual, social, and emotional development of the child. Development of an intelligent philosophy of adult-child relationships. Only offered Fall semester. Prerequisite: CFD 3260.

**CFD 3230 Family Systems and Lifespan Development (3)** Family relationships and human development with focus on change over the course of the family life cycle.

**CFD 3240 Parent-Child Interaction (3)** Development and understanding of adult-child interaction in the family setting.

**CFD 3250 Organization and Administration of Programs for Young Children (3)** Methods and procedures for setting up and administering a variety of programs for young children. Includes study of state licensing. Prerequisite: CFD 3260 or consent of instructor.

**CFD 3260 Practicum in Child Development (1)** Student observation and participation with preschool children. Students work with 2, 3 and 4-year old children. Prerequisite: CFD 1220. Corequisite: CFD 3850 if Early Childhood or Childhood Development major. An additional fee is associated with this course.

**CFD 4000 Special Projects in Child and Family Development (1-3)** Investigation of contemporary problems and issues in Child and Family Development. *May be repeated for a maximum of 6 semester hours.*

**CFD 4250 Selected Issues Child and Family Development (3)** In-depth study of selected issues in child and family development. Each offering covers distinct issues. For CFD majors must be taken for 6 credit hours. *May be repeated for a maximum of 9 semester hours.* Prerequisite: CFD junior standing or consent of the instructor.

**CFD 4710 Internship (3)** Provides experience for students in cooperating businesses, agencies and organizations. *May be repeated for a maximum of 12 semester hours.* Prerequisites: CFD 2240 and departmental consent.

**CFD 4745 Senior Seminar (3)** Philosophy, current issues and trends in Child and Family relationships related to occupations. Focus on problem-solving styles leading to group and individual research problems. Prerequisites: senior standing, approval of department adviser.

# Educational Leadership and Human Development

## Counselor Education

In the section of Counselor Education, the second digit in the course number stands for the following: 0-Special Projects, 1-Foundations, 2-Career Guidance, 3-Group Guidance, 4-School Counseling, 5-Secondary Counseling, 6-Testing, 7-Administration, 8-Techniques and Theories, 9-Individual Study and Research.  
 NOTE: For information regarding School Counseling certifications and programs, see the Graduate Catalog.

**COUN 4000 Special Projects in Counseling (1-5)** Individual or group study of complex problems or issues in special areas of interest. May be repeated for a maximum of 5 semester hours. Prerequisite: consent of program coordinator.

**COUN 4120 Foundations of Program Services (3)** An overview of school guidance programs and counseling services in community settings. History, philosophy, leadership/management skills, program planning, implementation, and collaboration are studied.

## Education Administration

**EDAD 3222 Community Advising (1)** Orientation to community advising and basic principles involved in student development, helping skills, and diversity issues. Prerequisite: consent of instructor.

## Instructional Technology

In the section of Instructional Technology, the second digit in the course number stands for the following: 0-Special Projects, 1-Foundations, 3-Instructional Technology, 4-Production, 9-Individual Study and Research.

### INSTRUCTIONAL MEDIA TECHNOLOGY

#### Minor for a Bachelor's Degree

UCM does not confer teacher certification for this minor. Preparation for teaching computer/technology literacy in schools. (781)

	Sem. Hours
<b>MINOR REQUIREMENTS . . . . .</b>	<b>23</b>
INST 3100 Mediating Instruction . . . . .	3
INST 4300 Prin. of Instructional Dev. . . . .	3
INST 4330 Technology Troubleshooting for Educators	2
INST 4400 Design & Production of Media for Instruction . . . . .	3
INST 4920 Practicum in Instructional Tech. . . . .	1
INST 4318 Telecommunications in Education . . . . .	3
EDCI 2310 Computer/Technology in Ed. . . . .	2
LIS 4230 Sel. & Acquisition of Materials . . . . .	3
LIS 4740 Adm. of the Library Media Center . . . . .	3

**INST 3100 Mediating Instruction (3)** The application of technology to the instructional development and delivery process. The selection, utilization, and evaluation of various media forms are studied. Laboratory experience includes preparation of instructional materials, equipment operation, and field experiences. A charge is made for expendable materials. Only offered Fall semester. Prerequisite: EDCI 2310.

**INST 4005 Special Projects in Instructional Technology (1-5)** Individual or group study of problems in special areas of interest. May be repeated for a maximum of 5 semester hours.

**INST 4300 Principles of Instructional Development (3)** Analysis and application of systematic approaches to the development of technology-based instruction. Includes the development of knowledge and skill in using hypermedia and multimedia technology. Prerequisite: INST 3100 or consent of instructor.

**INST 4318 Telecommunications in Education (3)** Provides students in education with the concepts and skills needed in using telecommunications networks for instructional purposes, research, and information access and delivery. Only offered Spring semester. Prerequisite: EDCI 2310 or equivalent experience.

**INST 4330 Technology Troubleshooting for Educators (2)** Provides pre-service and in-service educators with the knowledge and skill to operate, maintain and troubleshoot (service) the various hardware devices and software found in schools. Prerequisite: EDCI 2310 or consent of the instructor.

**INST 4400 Design and Production of Media for Instruction (3)** Design and production of print-based, computer-based, and video-based instructional materials that are related to subject areas or grade levels. Includes application of hypermedia and multimedia technology to the design and production of educational materials. Prerequisite: INST 4300 (Instructional Technology minors) or LIS 4200 (Library Science majors) or consent of instructor.

**INST 4920 Practicum in Instructional Technology (1)** Participation in field experiences that provide practice with teaching methodology applicable specifically to the problems and procedures encountered when working with instructional technology. May be repeated for a maximum of 4 semester hours. Prerequisites: INST 4400 and LIS 4740.

## Library Science and Information Services

In the section of Library Science and Information Services, the second digit in the course number stands for the following: 0-Special Projects, 1-Foundations, 2-Librarianship, 3-Internet, 6-Library Literature, 7-Administration, 8-Technical Processes, 9-Individual Study and Research.

NOTE: For information regarding Library Science and Information Services certifications and programs, see the Graduate Catalog.

**LIS 1600 Information Resources (2)** Freshman-level course introduces traditional and computer-based resources and services available in academic libraries and strategies for locating, evaluating and using information.

**LIS 4000 Special Projects in Library Science (1-5)** Individual or group study of problems in special areas of interest. May be repeated for a maximum of 5 semester hours.

**LIS 4200 Libraries and Librarianship (2)** Introduces the student to the development of the library as an institution and to the role of the library and the librarian in today's society. Prerequisite: Undergraduates require consent of Program Coordinator.

**LIS 4230 Selection and Acquisition of Materials (3)** Critical analysis of selection tools in developing a comprehensive media collection with emphasis on selection for small to medium sized libraries and media centers.

**LIS 4300 Introduction to the Internet Via Internet (3)** An examination and evaluation of the structure and function of the Internet and its use as a tool for communication, collaboration, and commerce.

**LIS 4320 Creating Web-Based Internet Sources (3)** An in-depth examination and evaluation of theoretical and practical principles, along with the development of skills necessary to create and provide resources on the Internet.

**LIS 4740 Administration of the Library Media Center (3)** Principles of organization and administration of the library and media center and its relationship to its many publics.

## Special Education

In the section of Special Education, the second digit in the course number stands for the following: 0-Special Projects, 1-Foundations, 3-Curriculum and Instruction, 4-Special Methods, 6-Testing, 7-Administration, 9-Individual Study and Research.

**Accreditation**

The Special Education program is accredited by the Council for Exceptional Children (CEC). The Council for Exceptional Children (CEC) is located at 1110 North Glebe Road, Suite 300, Arlington, VA 22201; phone 703-620-3660; email service@cec.sped.org; web page http://www.cec.sped.org.

**SPECIAL EDUCATION**

**Functional Major, Bachelor of Science in Education Degree**

Certification to teach cross-categorical disabilities K-12; severely developmentally disabled K-12; or early childhood special education Birth-Grade 3 (41-784)

The graduate with a Bachelor of Science in Special Education will apply knowledge and skills obtained in the program to:

- Understand the philosophical, historical, and legal foundations of the field of special education.
- Identify the characteristics of exceptional learners in order to provide for accurate selection of programs and learning opportunities.
- Become proficient in the use of assessment devices enabling effective diagnosis, evaluation and programming for exceptional learners.
- Develop a thorough understanding of instructional content and best practices for children and youth with exceptional learning needs.
- Plan and manage the teaching and learning environment for students with disabilities in a variety of educational settings.
- Understand the causes of student behavior and social interaction skills.
- Develop effective communication and collaborative partnerships among educational professionals, parents, and stakeholders in the education of children and youth with exceptional learning needs
- Practice in the field of special education using established professional and ethical practices and resources for the enhanced learning of all children.

Sem. Hours

**FUNCTIONAL MAJOR REQUIREMENTS . . . . . 52-57**

**CORE REQUIREMENTS – All Certification Areas . . . . . 26**

EDSP	4140	Collaborating With Families of Exceptional Children . . . . .	3
EDSP	4360	Behavioral Mgt. Techniques . . . . .	2
EDSP	4361	Practicum in Behav. Mgt. Tech. . . . .	1
EDSP	4620	Eval. of Abilities & Achievement . . . . .	3
EDSP	4700	IEP & the Law . . . . .	3
HED	4330	First Aid & CPR for Educators . . . . .	1
EDCI	3210	Methods of Reading Instruction . . . . .	3
EDCI	2310	Computer/Technology in Ed. . . . .	2
EDCI	1310	Physics for Teachers, 3 or . . . . .	3
EDCI	1320	Biology for Teachers, 3 . . . . .	3
ART	3910	Art for Elementary Schools . . . . .	2
MATH	3890	Concepts & Methods of Teaching for Special Education . . . . .	3
Area of Certification Requirements . . . . . 26-31			
<b>Cross-Categorical Disabilities . . . . . 26</b>			
EDCI	3215	Teaching Reading in Content Fields . . . . .	3
HED	3310	Meth. in Elem. School Health . . . . .	2
EDSP	4150	Career Development for Students with Disabilities . . . . .	2
EDCI	4220	Analysis & Correction of Reading Disabilities . . . . .	2
EDCI	4250	Practicum in Reading . . . . .	1
EDSP	4385	Introduction to Cross-Categorical Special Education . . . . .	3
CD	4402	Language Acquisition for Children with Developmental Disabilities . . . . .	2
EDSP	4421	Methods of Cross-Cat I: MR/OHI . . . . .	3
EDSP	4422	Methods of Cross-Cat II: LD . . . . .	3
EDSP	4423	Methods of Cross-Cat III: E/BD . . . . .	3
MATH	4890	Math. for Special Education . . . . .	2
<b>Severely Developmentally Disabled . . . . . 28</b>			

HED	1350	Responding to Emergencies . . . . .	3
HED	3310	Meth. in Elem. School Health . . . . .	2
EDSP	4310	Intro. to Students with Severe Developmental Disabilities . . . . .	2
EDSP	4330	Ed. & Training of Students with Severe Dev. Disabilities. . . . .	3
PE	4340	Adapted Physical Education . . . . .	3
EDSP	4350	Augmentative & Alter. Com. . . . .	3
EDSP	4370	Screening, Diagnosing & Prescribing Instruction . . . . .	3
CD	4402	Language Acquisition for Children with Dev. Disabilities . . . . .	2
EDSP	4450	Curr. & Meth. for Tchg. the Student with SDD . . . . .	3
EDSP	4470	Perceptual Motor Training for Students with Disabilities. . . . .	2
MATH	4890	Math. for Special Education . . . . .	2
<b>Early Childhood Special Education . . . . . 31</b>			
EDSP	3150	Community & Fam. Resources . . . . .	2
EDSP	3151	Community & Fam. Resources Practicum . . . . .	1
EDSP	4320	Intro. to Early Child. Spec. Ed. . . . .	3
EDSP	4350	Augmentative & Alter. Com. . . . .	3
EDSP	4370	Screening, Diagnosing & Prescribing Instruction . . . . .	3
EDSP	4440	Curriculum & Methods in Tchg. Early Childhood Special Ed. . . . .	3
EDSP	4470	Perceptual Motor Training for Students with Disabilities . . . . .	2
CD	2000	The Bases of Speech & Lang. . . . .	2
CFD	1220	Child Development . . . . .	3
CFD	1230	Observation of Children . . . . .	2
D&N	2310	Early Childhood Nutr. & Health . . . . .	2
EDCI	3220	Teaching of the Language Arts . . . . .	3
EDCI	3410	Children's Literature . . . . .	2

**MINOR NOT REQUIRED**

**GENERAL EDUCATION REQUIREMENTS (pages 34-43)**

**Early Childhood Special Education**

In the functional major, EDCI 1310 or EDCI 1320 is allowed to fulfill 3 s.h. of Div. II A; IGEN 3468 fulfills 3 s.h. of Div. IV A) . . . . 42  
Students must have one course in a physical or earth science and one course in a biological science in Div. II A, each must have a laboratory (total of 7 hours).

MATH	1620	Div. I C (required) . . . . .	3
HIST	1350	Div. II B or . . . . .	
HIST	1351	Div. II B (required) . . . . .	3
POLS	1510	Div. II B (required) . . . . .	3
GEOG	2212	Div. II B (required) . . . . .	3

**GENERAL EDUCATION REQUIREMENTS**

**Cross-Categorical Disabilities and Severely Developmentally Disabled**

In the functional major, EDCI 1310 or EDCI 1320 is allowed to fulfill 3 s.h. of Div. II A; HED 3310 and 4330 are allowed to fulfill 3 s.h. of Div. III, ICAP 4468 fulfills 3 s.h. of Div. IV B. . . . . 39

MATH	1620	Div. I C (required) . . . . .	3
HIST	1350	Div. II B or . . . . .	
HIST	1351	Div. II B (required) . . . . .	3
POLS	1510	Div. II B (required) . . . . .	3
GEOG	2212	Div. II B (required) . . . . .	3

**PROFESSIONAL EDUCATION REQUIREMENTS – Early Childhood Special Education . . . . . 23-25**

EDSP	2100	Ed. of the Exceptional Child . . . . .	2
EDSP	4395	Student Tchg. in Spec. Ed. I . . . . .	6-8
EDSP	4396	Student Tchg. in Spec. Ed. II . . . . .	6
EDCI	2100	Foundations of Education & Field Experience . . . . .	3
EDCI	2240	Educational Psychology . . . . .	3
IGEN	3468	Community, School & Family Connections . . . . .	3

**PROFESSIONAL EDUCATION REQUIREMENTS – Cross-Categorical Disabilities and Severely Developmentally Disabled . . . . 26**

EDSP	2100	Ed. of the Exceptional Child . . . . .	2
EDSP	4395	Student Tchg. In Spec. Ed. I . . . . .	8
EDCI	2100	Foundations of Education & Field Experience . . . . .	3
PSY	2220	Child Psychology . . . . .	3*
EDCI	2240	Educational Psychology . . . . .	3
PSY	4230	Psychology of Adolescence . . . . .	3*
ICAP	4468	Student Tchg. Secondary II . . . . .	4

Students may select certification in elementary education through the Director of Clinical Services and Certification.

**FREE ELECTIVES . . . . . 0-7**

**MINIMUM TOTAL . . . . . 124**

\*NOTE: With permission of adviser, students may substitute PSY 3220 Lifespan Psychology for PSY 2220 and PSY 4230.

**SPECIAL EDUCATION/ELEMENTARY EDUCATION**

Minor, Bachelor of Science in Education Degree  
Elementary education majors only.  
(854)

Sem. Hours

**MINOR REQUIREMENTS . . . . . 27**

EDSP	4140	Collaborating With Families of Exceptional Children . . . . .	3
EDSP	4150	Career Development for Students With Disabilities . . . . .	2
EDSP	4360	Behavioral Mgt. Techniques . . . . .	2
EDSP	4361	Practicum in Behavioral Management Techniques . . . . .	1
EDSP	4620	Evaluation of Abilities & Achievements. . . . .	3
EDSP	4700	IEP & the Law . . . . .	3
EDSP	4385	Intro. to Cross Categorical Special Education . . . . .	3
EDSP	4420	Methods of Cross-Categorical Special Education. . . . .	3
CD	4402	Language Development for the Handicapped . . . . .	2
MATH	4890	Math for Special Education . . . . .	2
PSY	4230	Psychology of Adolescence, 3 or	
PSY	3220	Lifespan Development, 3, . . . . .	3

NOTE: Student teaching hours are not part of a minor program, but for informational purposes students will need to enroll in EDCI 4495 for 8 semester hours and EDSP 4396 for 6 semester hours. The student teaching placement for special education will be at the secondary level (grades 5-12).

**Special Projects**

**EDSP 4000 Special Projects in Special Education (1-5)** Individual or group study of problems in special areas of interest. *May be repeated for maximum of 5 semester hours.*

**Foundations**

**EDSP 2100 Education of the Exceptional Child (2)** Identification of exceptional children, methods and techniques for teaching them, as well as possible sources of referral which may be of assistance to teachers and parents of these children.

**EDSP 3150 Community and Family Resources (2)** Early clinical observations and experiences using community and family resources concerned with various kinds of exceptionality. *May be repeated for a maximum of 6 semester hours.* Prerequisite: EDSP 2100 or PSY 4200. Corequisite: EDSP 3151.

**EDSP 3151 Community and Family Resources Practicum (1)** Provides opportunities for preservice teachers to evaluate how community and family resources impact directly/indirectly on the lives of children. Prerequisite: EDSP 2100 or PSY 4200. Corequisite: EDSP 3150.

**EDSP 4140 Collaborating With Families of Exceptional Children (3)** A study of the impact of exceptionality on family systems and how empowerment and community resources can strengthen the school-family partnership. Prerequisite: EDSP 2100 or PSY 4200.

**EDSP 4150 Career Development for Students with Disabilities (2)** Supportive services to students with disabilities within a career development context. Prerequisite: EDSP 2100 or PSY 4200.

**Curriculum and Instruction**

**EDSP 4310 Introduction to Students with Severe Developmental Disabilities (2)** Basic information pertaining to the characteristics and care of students with severe developmental disabilities. Prerequisite: EDSP 2100 or PSY 4200.

**EDSP 4320 Introduction to Early Childhood Special Education (3)** Basic information pertaining to the characteristics, care, treatment, and education of young children with special needs. Only offered Fall semester. Prerequisite: EDSP 2100 or PSY 4200.

**EDSP 4330 Education and Training of Students with Severe Developmental Disabilities (3)** The treatment and training strategies used in teaching students with severe developmental disabilities. Prerequisites: EDSP 4310 and EDSP 4370.

**EDSP 4350 Augmentative and Alternative Communication (3)** Study and application of communication options, including manual sign language and communication devices. Prerequisite: EDSP 2100 or PSY 4200 or consent of instructor.

**EDSP 4360 Behavioral Management Techniques (2)** Practical approaches to behavior management for the classroom teacher, special educator, or clinician. Prerequisite: EDSP 2100 or PSY 4200.

**EDSP 4361 Practicum in Behavioral Management Techniques (1)** Practical experience in designing behavioral management programs and environments under supervision. Prerequisite: EDSP 4360 or concurrently. An additional fee is assessed for this course.

**EDSP 4370 Screening, Diagnosing and Prescribing Instruction (3)** Case finding, screening, diagnostic and assessment procedures to be utilized in prescriptive educational planning for infants and preschool-aged children. Prerequisite: EDSP 2100 or PSY 4200.

**EDSP 4385 Introduction to Cross-Categorical Special Education (3)** Information about the characteristics and education of children with mild/moderate disabilities. Prerequisite: EDSP 2100 or PSY 4200.

**EDSP 4390 Introduction to Teaching the Gifted/Talented/Creative Student (3)** Definitions, identification procedures, the nature and needs, concepts and issues concerning the gifted, talented, creative child. Prerequisite: EDSP 2100 or PSY 4200.

**EDSP 4395 Student Teaching in Special Education I\* (5, 6, 8)** Application for Student Teaching must be made with the Director of Clinical Services and Certification. Prerequisites: special methods course in special education in one or more certification areas (EDSP 4423, EDSP 4440, or EDSP 4450). Should be taken with EDSP 4396 or ICAP 4468 or EDCI 4495. \*Not available for graduate credit.  
**EDSP 4396 Student Teaching in Special Education II\* (5, 6, 8)** Corequisite: EDSP 4395. \*Not available for graduate credit.

**Special Methods**

**EDSP 4420 Methods of Cross-Categorical Special Education (3)** Teaching methods, materials and curricula for education students with mild/moderate disabilities. Prerequisite: EDSP 4385.

**EDSP 4421 Methods of Cross-Categorical Disabilities I: Mental Retardation/Other Health Impaired (3)** Strategies for addressing general problems in teaching students with mental retardation and other health impairments in cross-categorical and other settings including planning, materials and methods used. Prerequisites: Admission to Teacher Education Program and EDSP 4385.

**EDSP 4422 Methods of Cross Categorical Disabilities II: Learning Disabilities (3)** Characteristics, etiologies, definitions, legislation and issues related to the identification of and educational planning for individuals with learning disabilities. Prerequisites: Admission to Teacher Education Program and EDSP 4385.

**EDSP 4423 Methods of Cross-Categorical Special Education III: Emotional/Behavioral Disorders (3)** Strategies for addressing general problems in teaching students with emotional and/or behavioral disorders in cross-categorical and other settings including planning, materials and methods used. Prerequisites: Admission to Teacher Education Program and EDSP 4385.

**EDSP 4440 Curriculum and Methods for Teaching Early Childhood Special Education (3)** The teaching methods and curricula used for educating young children with special needs. Prerequisites: Admission to Teacher Education Program and EDSP 4320 and EDSP 4370.

**EDSP 4450 Curriculum and Methods for Teaching the Student with Severe Developmental Disabilities (3)** Teaching methodologies and curricula used in programming for students with severe developmental disabilities. Prerequisites: Admission to Teacher Education Program and EDSP 4330.

**EDSP 4470 Perceptual Motor Training for Students with Disabilities (2)** Theories, assessment, instructional procedures, materials, and equipment adaptations for early childhood special education and students with severe developmental disabilities. Prerequisite: EDSP 2100 or PSY 4200.

**EDSP 4480 Curriculum and Methods for the Teaching of Gifted/Talented/Creative Students (3)** Teaching methods and curricula used for educating students who are gifted/talented/creative. Prerequisite: EDSP 4390 or consent of instructor.

### Testing

**EDSP 4620 Evaluation of Abilities and Achievement (3)** Instruction in interpretation of individualized intelligence tests, formal and informal diagnostic procedures, and in prescriptive instruction. A directed clinical experience in the diagnostic assessment process for Individual Education Programs is required. Prerequisite: EDSP 2100 or PSY 4200. An additional fee is assessed for this course.

### Administration

**EDSP 4700 IEP and the Law (3)** Administrative procedures and policies needed in establishing a program of special education. Special emphasis is given to compliance with state and federal law. A directed clinical experience in the theory, process, and practice of IEP writing is included. Prerequisite: EDSP 4620 and Admission to the Special Ed Program or Graduate Standing.

## College of Health and Human Services

### Integrative Studies General

**IGEN 3472 Sport in American Life (3)** Provides for an understanding and appreciation of the role of sport in American life.

**IGEN 3896 Assessing Global Change for the Information Age (3)** Challenges students to assess present and future trends, evaluate what is desirable, and reflect on their responsibility for the quality of life in the information age.

## Communication Disorders

In the Department of Communication Disorders, the second digit in the course number stands for the following: 0-General, 1-Professionalism, 3-Speech Science, 4-Language, 5-Speech Pathology, 7-Audiology, 8-Clinical Practicum, 9-Directed Studies.

### Overview of Program

The primary purpose of the B.S. Degree in Speech-Language Pathology is to prepare students for possible admission to graduate programs in either Speech-Language Pathology or Audiology. Completion of the B.S. Degree in Speech-Language Pathology does not provide the qualifications that students will need for employment as a speech-language pathologist or audiologist. The Master's degree is considered the entry level degree to enter the field of Speech-Language Pathology. The clinical doctorate (AuD), not currently offered at UCM, is the entry level degree to enter the field of Audiology. The Communication Disorders program at the University of Central Missouri is accredited by the Council on Academic Accreditation of the American Speech-Language Hearing Association (ASHA) in Speech-Language Pathology.

### Undergraduate Student Learning Outcomes

The graduate with a Bachelor of Science in Speech-Language Pathology will use the knowledge and skills obtained in the program to:

1. Demonstrate knowledge of information regarding prevention, assessment and intervention concerning communication differences and disorders and swallowing or other upper aerodigestive disorders.
2. Provide prevention, assessment and intervention services to children and adults across a wide range of speech and language disorders and differences in a closely supervised setting.
3. Demonstrate emerging skills in oral and written language to achieve effective clinical and professional interaction.
4. Begin to exhibit professional behavior as defined in the cardinal documents of the American Speech-Language-Hearing Association (ASHA) including but not limited to Certification Standards for the Certificate of Clinical Competence in Speech-Language Pathology, ASHA Scope of Practice in Speech-Language Pathology, ASHA Code of Ethics and ASHA Preferred Practice Patterns for the Profession of Speech-Language Pathology.
5. Collaborate with professionals and provide counseling to individuals and their families regarding speech and language differences and disorders in a closely supervised setting.
6. Begin to integrate classroom-based knowledge, clinical experience and technological resources to support Evidence-Based Practice in a guided clinical setting.

### Undergraduate Admission Policies and Procedures

Student enrollment is limited to the following Department of Communication Disorders' courses unless the student is either provisionally or fully admitted to the undergraduate functional major in speech pathology: CD 2000, CD 2301, CD 3301, CD 3501, CD 3802, CD 4401, CD 4402, CD 4900. If the student is not provisionally or fully admitted to the undergraduate program, enrollment in Department of Communication Disorders' courses other than the ones listed above, shall be determined in conference with the director of undergraduate studies in the department.

The Master's Degree is the recognized entry-level degree for both speech-language pathology or audiology in all employment settings. The primary purpose of the Bachelor of Science Degree in Speech-Language Pathology is to prepare students for possible admission to graduate programs in either Speech-Language Pathology or Audiology. Completion of the Bachelor of Science Degree in Speech-Language Pathology does not prepare students for employment as a speech-language pathologist or audiologist, nor does it guarantee admission to a graduate program in Speech-Language Pathology or Audiology; however, the undergraduate degree can lead to employment opportunities in a variety of other related fields.

Students who have been admitted to the undergraduate program and have not enrolled in Communication Disorders' courses for three consecutive semesters will be dropped from the undergraduate program. These students must reapply for admission to the undergraduate program prior to enrollment in any additional courses in Communication Disorders.

#### I. Admission of Non-Transfer Students

##### A. Admission Criteria:

1. Must have a minimal overall GPA of 2.50.
2. Must have earned a minimum of 30 university credit hours, applicable to graduation, including a grade of "C" or better in ENGL 1020 and ENGL 1030 or ENGL 1080.
3. Must have made a grade of "C" or better and a GPA of 2.50 or better in the following CD courses: CD 2301, CD 3301, CD 3501, CD 3802.
4. Students may enroll in the four courses listed under I.A.3. for a maximum of two times.
5. Students must complete a speech, language and hearing screening.
6. Students must submit a formal application by the first week of classes of the semester prior to admission.
7. Students who do not meet requirements I.A.1-6. are ineligible for admission to the undergraduate functional major in speech-language pathology.

##### B. Maintenance Criteria:

1. The first semester the student's overall GPA drops below a 2.50 after being admitted to the undergraduate program in Communication Disorders, the student will receive a letter of written academic warning from the Department of Communication Disorders.
2. Any student under academic warning whose overall GPA falls below a 2.50 for any subsequent semester will become ineligible to continue taking courses in the Department of Communication Disorders and/or to re-apply for admission to the undergraduate program.
3. Any student who receives a grade below "C" in any CD course or whose GPA drops below a 2.50 in CD courses will receive a letter of warning. Students must obtain a grade of "C" or better and a GP of 2.50 or better in all CD courses taken prior to completing an undergraduate major in speech pathology. Students may enroll in any CD course a maximum of 2 times.

**II. Admission of Undergraduate Transfer Students**

- A. Admission Criteria:
  1. Transfer students must meet requirements I.A.1-7.
  2. Students who are transferring two or more of the courses listed in I.A.3. and meet other criteria listed in I.A. will be provisionally admitted and must take an additional six semester hours of Department of Communication Disorders' courses at the University of Central Missouri before applying for full admission.
  3. Transfer students must demonstrate the competencies required for the UCM equivalent for any courses being transferred before applying for full admission to the undergraduate program.
- B. Maintenance Criteria:
  1. Same as for non-transfer students.
- C. Other
  1. A minimum letter grade of a "C" or better and a GPA of 2.50 or better must be obtained for the six semester hours under II.A.2. for the transfer student to be able to apply for full admission to the undergraduate program. Those courses in which the undergraduate transfer student makes a grade below a "C" can be retaken only once. If this requirement is not met, the student becomes ineligible to continue taking courses in the Department of Communication Disorders and/or to apply for full admission to the undergraduate functional major in speech-language pathology.

**III. Admission of International Undergraduate Students\***

\*International students participating in the Department of Communication Disorders' official international exchange program do not need to be admitted to the undergraduate program and will be allowed to enroll in courses on a case-by-case basis.

- A. Admission Criteria:
  1. Must meet requirements I.A.1-7.
  2. Must score 600 or greater on the TOEFL.
  3. Must score 55 or greater on the Test of Spoken English.
  4. Must score 5 or greater on the Test of Written English.
  5. Must complete an oral interview with designated faculty from the Department of Communication Disorders.
  6. International students who are transferring two or more of the courses listed in I.A.3. and meet other criteria listed in I.A. will be provisionally admitted and must take an additional six semester hours of Department of Communication Disorders' courses at the University of Central Missouri before applying for full admission.
  7. International transfer students must demonstrate the competencies required for the UCM equivalent for any courses being transferred before applying for full admission to the undergraduate program.
- B. Maintenance Criteria:
  1. Same as for non-transfer students
- C. Other
  1. Same as for transfer students.

**IV. Post-Baccalaureate Students**

Post-Baccalaureate Students must have permission of the Department Chair to enroll in any Communication Disorders' course.

**V. Clinical practicum Requirements**

Undergraduate students will complete the following practicum requirements as described below:

*CPR Certification*

Students will obtain certification in adult and child cardiopulmonary resuscitation prior to enrolling in clinical practicum experiences. Students must maintain re-certification throughout all clinical practicum experiences.

*Immunizations*

Students must be tested yearly for Tuberculosis (TB) and submit

results of testing to the Director of Clinical Services prior to beginning clinic each year. Additionally, students must submit proof of having initiated the three shot series of immunization against Hepatitis B prior to beginning clinical practicum.

*Criminal Background Check*

Prior to beginning clinic, students will receive the most recent criminal background check procedures from the Director of Clinical Services. If a background check is unsatisfactory, placement in clinic and externship/internship sites may not be possible. A student unable to be placed in clinic or externship/internship will not be able to complete the program.

*Grades*

While on academic probation, a student may not enroll in any clinical practicum courses.

*Clinician Meetings*

Clinicians are required to attend clinician meetings which cover a variety of topics ranging from paperwork and procedures to assessment and intervention tools available in our clinic. These meetings are scheduled as needed throughout the semester.

*Knowledge and Skills Acquisition (KASA)*

The Bachelor of Science Degree in Speech-Language Pathology is a competency based program. These competencies reflect the knowledge and skills required by the ASHA Certification Standards III, Program of Study-Knowledge Outcomes and IV, Program of Study-Skill Outcomes. These required knowledges and skills are delineated on the KASA. To understand the procedures associated with the KASA documentation, students are required to attend KASA trainings offered each semester. Students will be expected to demonstrate competency related knowledges and skills throughout their undergraduate program through formative and summative assessments. Students' successful demonstration of the acquisition of knowledges and skills will be documented on the KASA. Students not demonstrating the achievement of course and practicum related knowledges and skills will be required to successfully complete remediation procedures that will then allow those knowledges and skills to be documented on the KASA. Successful completion of remediation procedures does not alter the final course grade. For all courses listed on the KASA, students must achieve a grade of C or better in all CD Functional Major Requirements and CD specified General Education Requirements.

**SPEECH-LANGUAGE PATHOLOGY**

Functional Major, Bachelor of Science Degree  
(43-844)

Sem. Hours

**FUNCTIONAL MAJOR REQUIREMENTS . . . . . 62**

CD	2301	American Phonetics . . . . .	3
CD	3301	Anatomy & Physiology of Speech and Swallowing . . . . .	2
CD	3304	Speech Science . . . . .	3
CD	3501	Intro. to Comm. Disorders . . . . .	3
CD	3503	Principles of Clinical Mgt. . . . .	3
CD	3802	Observ. of Clinical Practicum in Communication Disorders . . . . .	1
CD	4102	Counseling Persons with Comm. Disorders & Their Families . . . . .	2
CD	4103	Introduction to Evidence Based Practice in Comm. Disorders . . . . .	2
CD	4401	Language Development . . . . .	3
CD	4501	Basic Neuroscience of Speech- Language Pathologists . . . . .	2
CD	4504	Introduction to Articulation & Phonological Disorders . . . . .	3
CD	4505	School-age Issues in Language & Literacy . . . . .	3
CD	4510	Multicultural Issues in Comm. Disorders . .	2

CD	4511	Assistive Technology Across the Lifespan . . .	2
CD	4512	Birth to Three: Assessment & Intervention . . .	3
CD	4515	Rehabilitation of Cognitive-Linguistic Comm. Disorders . . . . .	2
CD	4701	Introduction to Audiology . . . . .	3
CD	4706	Hearing Measurement . . . . .	3
CD	4708	Aural Rehabilitation . . . . .	3
CD	4803	Undergraduate Clinical Practicum . . . . .	2
CD	4900	Special Topics Comm. Disorders: Beginning Sign Language . . . . .	2
ENGL	4110	Linguistics . . . . .	3
PSY	3220	Life-Span Development . . . . .	3
PSY	4520	Statistics for the Behavioral Sciences . . . . .	3
HED	4330	First Aid & CPR for Educators . . . . .	1

**MINOR NOT REQUIRED**

**GENERAL EDUCATION REQUIREMENTS (pages 34-43) . . . . . 48**

COMM	1000	Div. I B (required) . . . . .	3
BIOL	1004	Div. II A (required) . . . . .	4
PHYS	1103	Div. II A (required) . . . . .	3
PSY	1100	Div. II B (required) . . . . .	3

**FREE ELECTIVES . . . . . 13-14**

**MINIMUM TOTAL . . . . . 124**

**General**

**CD 2000 The Bases of Speech and Language (2)** Intended for non-majors; basics of normal communication, overview of communication impairments in children and effective instructional strategies, principles of collaboration with SLPs.

**Professionalism**

**CD 4102 Counseling Persons with Communication Disorders and Their Families (2)** Application of counseling and interviewing theory to individuals with communication disorders of all ages and their families. Ample opportunity to apply knowledge will be provided. Prerequisite: admission to the undergraduate program in speech-language pathology or with departmental approval.

**CD 4103 Introduction to Evidence Based Practice in Communication Disorders (2)** Introduction to the use of current research results to make clinical decisions regarding client care. Prerequisite: admission to the undergraduate program in speech-language pathology or departmental consent.

**Speech Science**

**CD 2301 American Phonetics (3)** Sound system of American English with emphasis on the international phonetic alphabet and dialects.

**CD 3301 Anatomy and Physiology of Speech and Swallowing (2)** The anatomical and endocrinological bases for normal production of speech and swallowing.

**CD 3304 Speech Science (3)** An introduction to basic physiological and acoustical properties of human communication.

Prerequisite: admission to the undergraduate program in speech-language pathology.

**Language**

**CD 4401 Language Development (3)** Theories and sequence of normal language acquisition.

**CD 4402 Language Acquisition in Children with Developmental Disabilities (2)** Theories and sequences of language development with emphasis on language acquisition and deficiencies exhibited by children with various developmental disabilities.

**Speech Pathology**

**CD 3501 Introduction to Communication Disorders (3)** Etiology, incidence, and characteristics of communicative disorders. Corequisite: CD 3802.

**CD 3503 Principles of Clinical Management (3)** Fundamental clinical concepts as a foundation for diagnosis and intervention in communication disorders. Prerequisite: admission to the

undergraduate program in speech-language pathology.

**CD 4501 Basic Neuroscience for Speech-Language Pathologists (2)** An introduction to human nervous system structure and function, with special emphasis on neural processing for normal speech, language, hearing and swallowing. Prerequisite: admission to the undergraduate program in speech-language pathology or with departmental approval.

**CD 4504 Introduction to Articulation and Phonological Disorders (3)** An introduction to articulation and phonological disorders; diagnostic procedures and treatment approaches; knowledge of multicultural issues related to these disorders. Prerequisites: admission to the undergraduate program in speech-language pathology and a grade of "C" or better in CD 3503. CD 4504 may be taken concurrently with CD 3503 under exceptional circumstances with departmental approval.

**CD 4505 School-age Issues in Language and Literacy (3)** Types of language and literacy disorders; formal/informal assessment procedures of language and literacy skills; intervention procedures for the re mediation of language and literacy disorders. Prerequisites: admission to the undergraduate program in speech-language pathology and a grade of "C" or better in CD 3503. CD 4505 may be taken concurrently with CD 3503 under exceptional circumstances with departmental approval.

**CD 4510 Multicultural Issues in Communication Disorders (2)** Focused study of various issues important to multiculturalism and diversity when assessing and treating individuals with communication disorders from diverse backgrounds. Prerequisite: admission to the undergraduate program in speech-language pathology or with departmental approval.

**CD 4511 Assistive Technology Across the Lifespan (2)** Assessment and intervention techniques for persons with communication impairments who require assistive technologies; emphasis on broad range of etiologies across the lifespan. Prerequisite: admission to the undergraduate program in speech-language pathology or with departmental approval.

**CD 4512 Birth to Three: Assessment and Intervention (3)** Focused study of the nature of communication disorders in children from birth to three with special emphasis on assessment and intervention models. Prerequisite: admission to the undergraduate program in speech-language pathology or with departmental approval.

**CD 4515 Rehabilitation of Cognitive-Linguistic Communication Disorders (2)** Exploration of normal and impaired cognitive-linguistic processing, highlighting processing deficits in traumatic brain injury. Methods to assess/treat cognitive-linguistic impairments will be discussed. Prerequisite: admission to the undergraduate program in speech-language pathology or with departmental approval.

**Audiology**

**CD 4701 Introduction to Audiology (3)** Hearing impairment as related to basic acoustics and psycho acoustics, anatomy and physiology of the ear, and theories of hearing. Prerequisite: admission to the undergraduate program in speech-language pathology.

**CD 4706 Hearing Measurement (3)** Hearing measurement procedures including pure tone and speech audiometry and some site of lesion testing. Prerequisite: admission to the undergraduate program in speech-language pathology.

**CD 4708 Aural Rehabilitation (3)** Effects of hearing impairment of verbal communication. Principles and methods of aural rehabilitation. Prerequisite: CD 4706.

**Clinical Practicum**

**CD 3802 Observation of Clinical Practicum in Communication Disorders (1)** Twenty-five (25) clock hours of supervised observation in the evaluation and treatment of children and adults with disorders of speech, language, and hearing. Corequisite: CD 3501.

**CD 4803 Undergraduate Clinical Practicum\* (1)** Specialized practice in the management of communication disorders. Must be taken at least two times but can only enroll in course one time per semester. *May be repeated for 2 hours.* Prerequisites: admission to the undergraduate program in speech-language pathology or consent of department chair; overall GPA of 2.50; a grade of "C" or better in all previous CD courses, and CD 3503, CD 4701, and either CD 4504



or CD 4505; the remaining CD 4504 or CD 4505 must be taken concurrently with the first semester of clinical practicum.  
 \*Not available for graduate credit.

**Directed Studies**

**CD 4900 Special Topics in Communication Disorders (1-3)** Selected topics of contemporary interest in speech-language pathology and audiology; variable content. *May be repeated for a maximum of 6 semester hours.* Prerequisite: consent of department.

**Criminal Justice**

In the Department of Criminal Justice, the second digit in the course number stands for the following: 0-General, 1-Administration, 2-Traffic, 3-Law, 4-Investigation, 5-Police Science, 6-Problems and Research, 7-Juvenile Justice.

**CRIMINAL JUSTICE**

**Major, Bachelor of Science Degree (43-842)**

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

- Discern the basic components of the criminal justice system and understand the interrelationship within and between these components.
- Specify how justice institutions operate within society, as well as how they differ.
- Read and utilize articles from academic journals.
- Recognize personal assumptions, as well as basic American assumptions in analyzing positions on justice issues.
- Communicate effectively both in written and oral form.
- Conduct and report basic research procedures in accord with the scholarly practices of the discipline of Criminal Justice, including the principles of documentation, the acquisition of on and offline resources and do so in line with the ACJS Code of Ethics.
- Create reasonable linkages between empirical evidence and theory utilizing both inductive and deductive forms of logic.
- Recognize the complexity, ambiguity, and uncertainty that are present in the use of knowledge to address crime problems.

Sem. Hours

**MAJOR REQUIREMENTS . . . . . 45**

CJ	1000	Introduction to Criminal Justice . . . . .	3
CJ	3006	Corrections . . . . .	3
CJ	3010	Policing a Democratic Society . . . . .	3
CJ	2300	Criminal Law . . . . .	3
CJ	3303	Criminal Procedure . . . . .	3
CJ	3600	Intro. to Crim. Justice Research . . . . .	3
CJ	4605	Senior Sem. in Criminal Justice . . . . .	3
CJ	2700	Introduction to Juvenile Justice . . . . .	3
SOC	3890	Criminology . . . . .	3
		Departmentally approved electives . . . . .	18

**MINOR REQUIREMENTS . . . . . 20-25**

**GENERAL EDUCATION REQUIREMENTS (pages 34-43) . . . . . 48**

**FREE ELECTIVES . . . . . 6-11**

**MINIMUM TOTAL . . . . . 124**

**CRIMINAL JUSTICE**

**Minor for a Bachelor's Degree**

UCM does not confer teacher certification for this minor (829)

Sem. Hours

**MINOR REQUIREMENTS . . . . . 24**

CJ	1000	Introduction to Criminal Justice . . . . .	3
CJ	3006	Corrections . . . . .	3
CJ	3010	Policing a Democratic Society . . . . .	3
CJ	2300	Criminal Law . . . . .	3
CJ	3303	Criminal Procedure . . . . .	3

CJ	2700	Introduction to Juvenile Justice . . . . .	3
SOC	3890	Criminology . . . . .	3
		Elective in criminal justice . . . . .	3

**CORRECTIONS**

**Minor for a Bachelor's Degree**

UCM does not confer teacher certification for this minor (709)

Sem. Hours

**MINOR REQUIREMENTS . . . . . 24**

CJ	1000	Introduction to Criminal Justice . . . . .	3
CJ	2000	Hist. of Corrections & Penal Inst. . . . .	3
CJ	3006	Corrections . . . . .	3
CJ	4006	Probation, Parole & Community Corrections . . . . .	3
CJ	3104	Institutional Operations . . . . .	3
CJ	3310	Law of Corr. & Prisoners Rights . . . . .	3
CJ	4330	Criminal Justice & the Mental Health Systems . . . . .	3
SOC	3890	Criminology . . . . .	3

**INTERNATIONAL JUSTICE**

**Minor for a Bachelor's Degree**

UCM does not confer teacher certification for this minor (855)

Sem. Hours

**MINOR REQUIREMENTS . . . . . 24**

CJ	3020	Comparative Justice Systems . . . . .	3
CJ	3398	International Human Rights & Criminal Justice . . . . .	3
CJ	4607	Issues in International Justice . . . . .	3
SOC	3885	Globalization and the Future . . . . .	3
		Electives in Political Social Science/Geography . . . . .	6
POLS	3520	Asian Government and Politics, 3 or	
POLS	3522	Modern East Asia, 3 or	
POLS	4520	Politics of Developing Nations, 3 or	
POLS	4521	Culture and Politics of the Middle East, 3 . . . . .	3
GEOG	3200	Geography of Europe, 3 or	
GEOG	3225	Geography of Latin America, 3 or	
GEOG	3310	Geography of Africa, 3 or	
GEOG	4230	Geography of Asia, 3 or	
GEOG	4235	Geography of the Former Soviet Union, 3 . . . . .	3

**Three credit hours may be granted for study in a UCM approved program or study tour in a foreign country which focuses on the justice structures of the country . . . . . 3**

		Electives in Justice Applications . . . . .	6
CJ	2405	International Policing . . . . .	3
CJ	4025	Comparative Corrections . . . . .	3
CJ	4352	International Criminal Law . . . . .	3
CJ	4444	Terrorism . . . . .	3
CJ	4703	International Juvenile Justice . . . . .	3

**GENERAL EDUCATION REQUIREMENTS (pages 34-43) In the minor, POLS 3522 fulfills 3 s.h. of Div. II D**

**BIOLOGY**

**Functional Major, Bachelor of Science Degree, Conservation Enforcement Studies option**

See requirements as outlined in the Department of Biology and Earth Science.

**FORENSIC SCIENCE**

**Minor for a Bachelor's Degree**

See requirements as outlined in the Department of Biology and Earth Science.

### General

**CJ 1000 Introduction to Criminal Justice (3)** The history, nature and function of the criminal justice system in America. Special attention is given to the philosophical basis underlying this system and to the problems associated with crime control in a democratic society. At each stage of the process, major issues confronting the system are examined.

**CJ 2000 History of Corrections and Penal Institutions (3)** Historical analysis of the development of corrections and penal institutions and the influence of social thought and philosophy on this development. Prerequisite: CJ 1000 or consent.

**CJ 3006 Corrections (3)** An overview course in correctional theory and practice. Traces the historical development of corrections with emphasis on changing social standards and philosophies. Examines the various types of correctional institutions, their mission, physical structure, management, and problems. Also examines probation and parole, including theory, practice and major issues confronting these correctional alternatives. Prerequisite: CJ 1000.

**CJ 3010 Policing a Democratic Society (3)** An in-depth look at the relationship between law enforcement and American society. Focus is on police-community relations, the police sub-culture, and the need for police objectives to conform to constitutional procedures. Prerequisite: CJ 1000.

**CJ 3020 Comparative Justice Systems (3)** An examination of comparative crime rates among nations and the world's major models of justice systems.

**CJ 4000 Special Projects in Criminal Justice Administration (1-3)** Individual or group study of problems in special areas of interest. May be repeated.

**CJ 4006 Probation, Parole and Community Corrections (3)** An examination of the roles of probation, parole and other community correctional methods as they relate to other elements of the criminal justice system. Prerequisite: CJ 3006.

**CJ 4010 Criminal Justice International Study (3)** Credit granted for study in a department approved program or study tour in a foreign country. Prerequisite: consent.

**CJ 4015 The Criminal Court System (3)** An overview of the goals, functions, and processes of the criminal court system with an examination of current legal issues and trends. Prerequisite: CJ 1000 or consent.

**CJ 4025 Comparative Corrections (3)** This course provides a comparative overview of correctional practices in various countries.

### Administration

**CJ 2101 Police Organization and Management (3)** The principles and practices common to the effective management of American law enforcement agencies. Prerequisite: CJ 1000.

**CJ 2102 Jail Management (3)** An in-depth study of jail operations and procedural guidelines which define the role, duties and responsibilities of jail personnel.

**CJ 3104 Institutional Operations (3)** An examination of the procedures of correctional institutions and of the problems encountered in the classification, care and treatment of incarcerated offenders. Prerequisite: CJ 3006.

**CJ 4101 Criminal Justice Planning (3)** Planning concepts and development of comprehensive criminal justice plans; their integration into meaningful crime reduction and resistance programs; and their influence on the operations of police, judicial and correctional agencies.

### Law

**CJ 2300 Criminal Law (3)** Origin, development, and classification of the substantive criminal law, defenses, and criminal responsibility. Prerequisite: CJ 1000 or consent.

**CJ 3303 Criminal Procedure (3)** Selected constitutional aspects of law enforcement including the law of arrest, search and seizure. Students are encouraged to take CJ 2300 prior to taking CJ 3303. Prerequisite: CJ 1000.

**CJ 3310 Law of Corrections and Prisoners' Rights (3)** An examination of federal and state laws and resultant judicial interpretation regarding the substantive and procedural protections applied in the correctional setting with regard to the rights of the confined. Only offered Spring semester. Prerequisite: CJ 3303 or consent.

**CJ 3398 International Human Rights and Criminal Justice (3)** A presentation of the legal standards of international human rights for criminal justice and their comparison with and impact upon national criminal justice systems.

**CJ 4300 Case Preparation and Courtroom Procedure (3)** Criminal procedure from arrest through trial. Preparation for and participation in mock trial. Recommended that students complete CJ 3303 Criminal Procedure before this course.

**CJ 4302 Criminal Evidence (3)** Rules of evidence as they relate to the prosecution and defense of criminal cases. It is recommended that students complete CJ 2300.

**CJ 4321 Civil Remedies in Criminal Justice (3)** State and federal legal liabilities and remedies in criminal justice and policy implications. Prerequisite: CJ 3303 or consent.

**CJ 4330 Criminal Justice and the Mental Health Systems (3)** The relation of the criminal justice system and the mental health process; legal concepts regarding the mentally disabled. Prerequisite: CJ 1000 or consent.

**CJ 4352 International Criminal Law (3)** Survey of international criminal law examining responsibilities of nation-state and individual, international cooperative efforts and tribunals, and various international crime and defenses, including international terrorism.

### Investigation

**CJ 2405 International Policing (3)** Overview of international policing operations includes an examination of organizational and administrative operations, duties of various police organizations, police relations with the public.

**CJ 3400 Criminal Investigation (3)** Principles involved in the investigation of crimes with particular attention given to its historical origins, the investigator, organization and management of the investigative function, and investigative methods; including crime scene processing, suspect identification and use of information sources. Consideration is also given to the investigation of specific crimes.

**CJ 3405 Homicide Investigation (3)** Study of homicide investigation including tactics, procedures, problems, forensic techniques, and legal issues. Recommended that students complete CJ 3400 Criminal Investigation prior to taking this course.

**CJ 4403 Sexual Assault and the Criminal Justice System (3)** In-depth study of sexual assault and sex offenders. Investigation into the motivation of sex offenders, the victim's responses to assault, and investigative procedures.

**CJ 4420 Organized Crime (3)** An analysis of both the historical development of organized crime and its current impact on society. The enforcement, prosecutorial, judicial, and legislative actions utilized to combat organized crime will be examined.

**CJ 4444 Terrorism (3)** Study of violent political and religious movements around the world and the difficulties they pose to the institutions of justice in a democratic society.

### Problems and Research

**CJ 3600 Introduction to Criminal Justice Research (3)** An introductory examination of the research methods with application most commonly utilized in criminological and criminal justice research.

**CJ 4601 Directed Studies\* (1-6)** Individual research and study in student's field of interest as approved and directed by major professors. May be repeated for a maximum of 6 semesters hours. Prerequisite: consent. \*Not available for graduate credit.

**CJ 4602 Internship in Criminal Justice (1-6)** Practical experience in the operation of various components of the criminal justice system. May be repeated for a maximum of 12 semester hours. Prerequisite: consent.

**CJ 4605 Senior Seminar in Criminal Justice\* (3)** Current issues and trends in criminal justice with emphasis on group discussion. Each student will be required to prepare, submit and defend a senior thesis.

Successful completion of the thesis is mandatory. Prerequisite: senior major in Criminal Justice. \*Not available for graduate credit.  
**CJ 4607 Issues in International Justice (3)** Seminar on current and developing issues in international justice. Prerequisite: consent of instructor.

**Juvenile Justice**

**CJ 2700 Introduction to Juvenile Justice (3)** An examination of the origins, philosophy and objectives of the juvenile justice system. Focus is on the operation, legal processes, current trends and roles of the various actors within the juvenile justice system.

**CJ 4701 The Juvenile and the Law (3)** The jurisdiction of juvenile courts, role of law enforcement agents, judicial process, fact-finding hearings, dispositions, waivers, appeals, philosophy of the juvenile court with attention to the legal rights of children, and comparative analyses of juvenile codes.

**CJ 4702 Juvenile Corrections (3)** An analysis of the theories, concepts, practices and special problems of juvenile corrections, including a review of contemporary juvenile correctional systems and discussion of recent research concerning the juvenile institution and the various field services.

**CJ 4703 International Juvenile Justice (3)** An overview of international juvenile justice, through a examination of how the international society reacts to juvenile misbehavior and various juvenile justice models.

**Health and Human Performance**

**ATHLETIC TRAINING**

In the section of Athletic Training, the second digit in the course number stands for the following: 6-Athletic Training.

To learn more about the application/admission process, student retention, matriculation, transfer policy, and clinical experiences to the UCM Athletic Training Education Program (ATEP) please visit the program's student handbook at [www.ucmo.edu/at](http://www.ucmo.edu/at).

**Learning Objectives and Program Status:**

Students who successfully complete the Athletic Training program should be able to:

1. Demonstrate cognitive, psychomotor and affective skills in the following areas: risk management and injury prevention, pathology of injuries and illnesses, assessment and evaluation, acute care of injury and illness, pharmacology, therapeutic modalities and exercise, general medical conditions and disabilities, nutritional aspects of injury and illness, psychosocial intervention and referral, health care administration and professional development and responsibilities.
2. Demonstrate clinical proficiency in the following areas: risk management and injury prevention, pathology of injuries and illnesses, assessment and evaluation, acute care of injury and illness, pharmacology, therapeutic modalities and exercise, general medical conditions and disabilities, nutritional aspects of injury and illness, psychosocial intervention and referral, health care administration and professional development and responsibilities.
3. Currently, UCM is in the Candidacy phase of accreditation through CAATE. Upon accreditation and completion of this degree program, the student will be eligible to apply and sit for the Board of Certification examination.

**ATHLETIC TRAINING**

Functional Major, Bachelor of Science Degree  
(43-853)

Sem. Hours

**FUNCTIONAL MAJOR REQUIREMENTS . . . . . 69**

AT	1610	Introduction to Athletic Training . . . . .	2
AT	1611	Introduction to Athletic Training Lab I . . . .	1
AT	1620	Responding to Emergencies for the Professional Rescuer . . . . .	3
AT	1630	Foundations of Athletic Training . . . . .	2
AT	1631	Foundations of Athletic Training Lab II . . . .	2
PE	2320	Analysis & Tchg. of Weight Training . . . . .	1
AT	2600	Medical Terminology . . . . .	1
AT	2610	Orthopedic Assessment: Lower Extremity . . 2	
AT	2611	Orthopedic Assessment: Lower Extremity Lab III . . . . .	1
AT	2620	Orthopedic Assessment: Upper Extremity . . 2	
AT	2621	Orthopedic Assessment: Upper Extremity Lab IV . . . . .	1
AT	2630	Therapeutic Modalities . . . . .	2
AT	2631	Therapeutic Modalities Lab . . . . .	1
AT	3620	Clinical Athletic Training Lab V . . . . .	2
AT	3630	Therapeutic Rehabilitation . . . . .	2
AT	3631	Therapeutic Rehabilitation Lab . . . . .	1
AT	3640	Clinical Athletic Training Lab VI . . . . .	2
AT	3650	Sport & Exercise Pharmacology . . . . .	3
AT	4610	Clinical Athletic Training Lab VII . . . . .	2
AT	4620	Clinical Athletic Training Lab VIII . . . . .	2
AT	4630	Org. & Admin. of Athletic Training . . . . .	3
AT	4640	Senior Seminar in Athletic Training . . . . .	2
PE	4740	Legal Liability in Fitness/Wellness, Physical Education, Recreation, & Sports Settings . . . . .	2
PE	2800	Human Anatomy . . . . .	3
PE	2850	Found. of Exercise Physiology . . . . .	3
PE	3800	Kinesiology . . . . .	3
PE	4830	Psychological Aspects of Phys. Ed. . . . .	2

PE	4850	Assessment & Eval. of Fitness/Wellness . . .	3
HED	4300	Nutrition & Human Performance . . . . .	2
HED	4370	Human Diseases . . . . .	3
BIOL	2401	Anatomy & Physiology I . . . . .	4
BIOL	2402	Anatomy & Physiology II . . . . .	4
PSY	4520	Statistics for Behavioral Sciences . . . . .	3

**MINOR NOT REQUIRED**

**GENERAL EDUCATION REQUIREMENTS** (pages 34-43) In the major, BIOL 2401 and BIOL 2402 are allowed to fulfill

3 s.h. of Div. II A . . . . .	45-48
COMM 1000 Div. I B (required) . . . . .	3
MATH 1111 Div. I C (required) . . . . .	3
CHEM 1104 Div. II A (required) . . . . .	4
PSY 1100 Div. II B (required) . . . . .	3
PE 1206 Div. III (required) . . . . .	3
IGEN 3472 Div. IV (required) . . . . .	3

**UPPER LEVEL FREE ELECTIVES . . . . . 5**

**FREE ELECTIVES . . . . . 4**

**MINIMUM TOTAL . . . . . 124**

**AT 1610 Introduction to Athletic Training (2)** Introduction to clinical athletic training for first year athletic training majors. Emphasis on clinical education competencies, athletic training staff policies/procedures and entry-level taping skills. Corequisites: AT 1611 and AT 1620.

**AT 1611 Introduction to Athletic Training Lab I (1)** Introduction to clinical athletic training for the first year athletic training major. Hands-on experience for the athletic training student. The student must complete 50 clinical hours. Corequisites: AT 1610 and AT 1620.

**AT 1620 Responding to Emergencies for the Professional Rescuer (3)** Accident, injury and illness situations for immediate first-aid, and legal parameters involved in emergency care. Certification in CPR/AED for the professional Rescuer and First-Aid is attained. Corequisites: AT 1610 and AT 1611.

**AT 1630 Foundations of Athletic Training (2)** Provide the athletic training student with the foundation needed to recognize the cause of injuries, prevent injuries from occurring and to effectively manage injuries. Prerequisites: AT 1610, AT 1611 and AT 1620.

**AT 1631 Foundations of Athletic Training Lab II (1)** Provides experiences to recognize causes and management of injuries as well as prevention through health screening and protective equipment. Student must complete 50 clinical hours. Prerequisites: AT 1610, AT 1611, AT 1620 and PE 2800. Corequisite: AT 1630.

**AT 2600 Medical Terminology (1)** Terminology, note writing, and documentation techniques in sports medicine. A treatment cycle will be introduced.

**AT 2610 Orthopedic Assessment: Lower Extremity (2)** Common types of orthopedic/sports dysfunctions to the lower extremity. Viewpoints include: etiology and mechanism of injury, pathology, recognition and evaluation techniques, protocols, and prevention. Prerequisites: AT 1610, AT 1611, AT 1620, AT 1630, AT 1631, AT 2600, and PE 2800. Corequisite: AT 2611.

**AT 2611 Orthopedic Assessment: Lower Extremity Lab III (1)** Evaluation of orthopedic injuries occurring in lower extremity. Emphasis on orthopedic assessment, goniometry, manual muscle testing, and gait evaluations. Student must complete 125 clinical hours. Prerequisites: AT 1610, AT 1611, AT 1620, AT 1630, AT 1631, AT 2600, and PE 2800. Corequisites: AT 2610 and PE 2850.

**AT 2620 Orthopedic Assessment: Upper Extremity (2)** Common types of orthopedic/sports dysfunctions to the upper extremity will be discussed including mechanism of injury, pathology, recognition and evaluation techniques, protocols, and prevention. Prerequisites: AT 1610, AT 1611, AT 1620, AT 1630, AT 1631, AT 2600, AT 2610, AT 2611, PE 2800 and PE 2850. Corequisites: AT 2621 and PE 3800.

**AT 2621 Orthopedic Assessment: Upper Extremity Lab IV (1)** Evaluation of orthopedic injuries occurring in upper extremity. Emphasis on orthopedic assessment, goniometry, manual muscle testing, and gait evaluations. Student must complete 125 clinical hours. Prerequisites: AT 1610, AT 1611, AT 1620, AT 1630, AT 1631, AT 2600, AT 2610, AT 2611, PE 2800 and PE 2850. Corequisites: AT 2620 and PE 3800.

**AT 2630 Therapeutic Modalities (2)** The theoretical knowledge for the clinical application of therapeutic modalities. Principles of the physiological effects and therapeutic indications and contraindications with application of these modalities. Prerequisites: AT 1610, AT 1611, AT 1620, AT 1630, AT 1631, AT 2620, and AT 2600. Corequisites: AT 2610, AT 2611, and AT 2631.

**AT 2631 Therapeutic Modalities Lab (1)** Students will apply the techniques and clinical skills related to the application of therapeutic modalities. Prerequisites: AT 1610, AT 1611, AT 1620, AT 1630, AT 1631, AT 2600, PE 2800, and PE 2850. Corequisites: AT 2610, AT 2611, and AT 2630.

**AT 3620 Clinical Athletic Training Lab V (2)** Application of athletic training practices in selected educational settings. Student must complete 125 clinical hours. Prerequisites: AT 1610, AT 1611, AT 1620, AT 1630, 1631, AT 2620, AT 2621, PE 2850 and PE 3800.

**AT 3630 Therapeutic Rehabilitation (2)** Theoretical knowledge in the clinical application of rehabilitation programs, physical examinations, therapeutic exercises, open and closed chain exercises, muscle reeducation, special therapeutic techniques including aquatic therapy. Prerequisites: AT 1610, AT 1611, AT 1620, AT 1630, 1631, AT 2620, AT 2621, AT 2630, AT 2631, PE 2850 and PE 3800.

**AT 3631 Therapeutic Rehabilitation Lab (1)** Clinical skills relating to the rehabilitation of athletic injuries. 100 documented clinical hours will afford the opportunity to use the knowledge and techniques from the course. Prerequisites: AT 1610, AT 1611, AT 1620, AT 1630, 1631, AT 2620, AT 2621, AT 2630, AT 2631, PE 2850 and PE 3800.

**AT 3640 Clinical Athletic Training Lab VI (2)** Application of athletic training practices in selected educational settings. Student must complete 125 clinical hours. Prerequisites: AT 1610, AT 1611, AT 1620, AT 1630, 1631, AT 2620, AT 2621, AT 2630, AT 2631, AT 3620, PE 2850 and PE 3800.

**AT 3650 Sport and Exercise Pharmacology (3)** Discuss medications and their impact upon the active population. Issues in ethical concerns and legal implications will be addressed. Prerequisite: Junior standing.

**AT 4610 Clinical Athletic Training Lab VII\* (2)** Application of athletic training practices in selected educational settings. Student must complete 150 clinical hours. Prerequisites: AT 1610, AT 1611, AT 1620, AT 1630, 1631, AT 2620, AT 2621, AT 2630, AT 2631, AT 3620, AT 3630, AT 3631, AT 3640, PE 2850 and PE 3800.

\*Not available for graduate credit.

**AT 4620 Clinical Athletic Training Lab VIII\* (2)** Application of athletic training practices in selected educational settings. Student must complete 150 clinical hours. Prerequisites: AT 1610, AT 1611, AT 1620, AT 1630, 1631, AT 2620, AT 2621, AT 2630, AT 2631, AT 3620, AT 3630, AT 3631, AT 3640, AT 4610, PE 2850 and PE 3800. \*Not available for graduate credit.

**AT 4630 Organization and Administration of Athletic Training\* (3)** Legal liabilities, budget/inventory management, facility designs, and maintenance will be addresses. Additionally, discussions on daily supervision, scheduling, and administration of the athletic training room. Prerequisites: AT 1610, AT 1611, AT 1620, AT 1630, 1631, AT 2620, AT 2621, AT 2630, AT 2631, AT 3620, PE 2850 and PE 3800 \*Not available for graduate credit.

**AT 4640 Senior Seminar in Athletic Training (2)** Prerequisite: Senior standing.

## DIETETICS AND NUTRITION

In the section of Dietetics and Nutrition, the second digit in a course number stands for the following: 3-Foods and Nutrition.

### DIETETICS

#### Functional Major, Bachelor of Science Degree

Registration as a dietitian requires internship beyond Bachelor of Science degree. Fulfills the "Didactic Program in Dietetics Academic Requirements" of the American Dietetic Association. (43-116)

The graduate with a Bachelor of Science degree in Dietetics will qualify for a post-baccalaureate internship program. Student outcome goals:

- Solve service-oriented problems utilizing knowledge of nutritional assessment, intervention and evaluation skills.
- Utilize current knowledge, technology, and research to enhance the practice of dietetics.
- Exhibit behaviors consistent with attitudes based on beliefs that an understanding/appreciation of global concerns and the diversity of humankind.
- Attend professional dietetic meetings at the local, state, and/or the national level.
- Acquire the knowledge and skills for the successful participation in a supervised dietetics program, employment related to foods and nutrition, or graduate study.
- Acquire the knowledge, skills, professionalism and ethical conduct needed to become a competent entry-level dietitian.
- Apply scientific knowledge and principles to food service systems in the practice of dietetics.
- Apply scientific knowledge and principles related to nutrition needs and processes through the life cycle in health and disease.
- Generate, interpret, and use research and knowledge of foods and nutrition in clinical dietetics, community nutrition, and food service.
- Participate in activities that promote public awareness of nutrition and advance the profession of dietetics.

Sem. Hours

#### FUNCTIONAL MAJOR REQUIREMENTS . . . . . 63

FOOD 2322	Food Preparation . . . . .	3
FOOD 3332	Quantity Food Prod. & Service . . . . .	3
FOOD 3333	Food Systems Management . . . . .	3
FOOD 3334	Food Service Equip. & Purch. . . . .	3
FOOD 4326	Experimental Foods . . . . .	3
D&N 1300	Introduction to Dietetics . . . . .	1
D&N 3340	Nutrition . . . . .	3
D&N 3350	Community Nutrition . . . . .	3
D&N 4340	Advanced Nutrition . . . . .	3
D&N 4342	Medical Nutrition I . . . . .	3
D&N 4343	Medical Nutrition II . . . . .	3
D&N 4345	Senior Dietetics Seminar . . . . .	3
BIOL 2401	Anatomy & Physiology I . . . . .	4
BIOL 2402	Anatomy & Physiology II . . . . .	4
BIOL 3611	Microbiology . . . . .	4
CHEM 2650	Elem. Organic & Biochemistry . . . . .	5
ACCT 2100	Survey of Accounting . . . . .	3
MGT 3310	Principles of Management . . . . .	3
HRM 3920	Human Resource Management . . . . .	3
PSY 4520	Statistics for the Behavioral Sciences . . . . .	3

#### MINOR NOT REQUIRED

<b>GENERAL EDUCATION REQUIREMENTS</b> (pages 34-43) In the functional major, BIOL 2401 and BIOL 2402 fulfill 3 s.h. of Div. II A) . . . . .		45
CHEM 1104	Div. II A (required) . . . . .	4
PSY 1100	Div. II B (required) . . . . .	3
SOC 1800	Div. II B (required) . . . . .	3

#### FREE ELECTIVES . . . . . 16

#### MINIMUM TOTAL . . . . . 124

- D&N 1300 Introduction to Dietetics (1)** Overview dietetics and nutrition including history, current trends and career opportunities.
- D&N 2310 Early Childhood Nutrition and Health (2)** Application of principles of nutrition, significance of food habits, including the influences of family living, cultural patterns, and commercialization in relation to the health of young children.
- D&N 3340 Nutrition (3)** Digestive process and fundamental principles of nutrition and their application to the feeding of individuals. Prerequisite: CHEM 1103 or CHEM 1104.
- D&N 3350 Community Nutrition (3)** Public health nutrition and nutrition care delivery in community programs. Only offered Spring semester. Prerequisite: D&N 3340.
- D&N 3360 Entrepreneurship for Dietetics Professionals (3)** Identifies and develops dietetic entrepreneurial opportunities in a rapidly changing employment environment. Prerequisites: FOOD 3333 and D&N 3340.
- D&N 4340 Advanced Nutrition (3)** An in-depth study of human nutrition and the evaluation of nutritional status. Prerequisites: BIOL 2402, D&N 3340 and CHEM 2650 or CHEM 4421.
- D&N 4341 Child Nutrition (2)** Nutritive requirements of mothers during pregnancy and lactation and of children during early childhood. Bases of determining reliability of nutrition information. Prerequisite: D&N 3340.
- D&N 4342 Medical Nutrition I (3)** Role of nutrition in the prevention and dietary treatment of disease. Only offered Fall semester. Prerequisites: BIOL 2402, D&N 3340 and CHEM 2650 or CHEM 4421.
- D&N 4343 Medical Nutrition II (3)** A case study oriented approach to nutritional medicine with an in-depth emphasis on pathophysiology and the nutritional care plan in the prevention and treatment of disease. Only offered Spring semester. Prerequisite: D&N 4342.
- D&N 4345 Senior Dietetics Seminar\* (3)** Philosophy and current issues and trends in dietetics. Group and individual problems which will lead to investigation of individual research problem. Prerequisites: PSY 4520 or equivalent and senior class standing. \*Not available for graduate credit.
- D&N 4350 Special Problems in Foods and Nutrition (2-3)** An in-depth study of human nutrition; some foods emphasis. Group and/or individual problems including reports, discussion, bibliographies, research, and experiments. *May be repeated for a maximum of 6 semester hours.* Prerequisite: senior class standing.
- D&N 4351 Geriatric Nutrition (2)** Dietary needs and feeding of the elderly. Prerequisite: D&N 3340 or consent.

## FOOD

In the section of Food, the second digit in a course number with a FOOD prefix stands for the following: 3-Foods and Nutrition.

### FOODS

#### Minor for a Bachelor's Degree

UCM does not confer teacher certification for this minor. (124)

Sem. Hours

#### MINOR REQUIREMENTS . . . . . 21

AGRI 3415	Meat Science . . . . .	3
FOOD 2322	Food Preparation . . . . .	3
FOOD 3332	Quantity Food Prod. & Service . . . . .	3
FOOD 3333	Food Systems Management . . . . .	3
FOOD 3334	Food Service Equip. & Purch. . . . .	3
D&N 3340	Nutrition . . . . .	3
ACCT 2100	Survey of Accounting . . . . .	3

**GENERAL EDUCATION REQUIREMENTS** (pages 34-43) CHEM 1104 Div. II A is required

**FOOD 2322 Food Preparation (3)** Properties and preparation of grains, fruits, vegetables, milk products, protein foods, fats, sugar products, and flour mixtures through demonstrations and laboratory experiences. Prerequisite: grade of C or better in CHEM 1104 or equivalent. An additional fee is associated with this course.

**FOOD 3332 Quantity Food Production and Service (3)** Principles and standard methods of quality food production, menus, and service in institutions and their application in work experience. Prerequisite: FOOD 2322.

**FOOD 3333 Food Systems Management (3)** Organization and management in food service areas including administrative responsibilities, qualifications, personnel management, and cost control. Only offered Fall semester. Prerequisite: ACCT 2100.

**FOOD 3334 Food Service Equipment and Purchasing (3)** Selection, layout and maintenance of equipment in large quantity food service areas. Also a study of food purchasing for institutions. Only offered Spring semester. Prerequisite: FOOD 3332 or concurrently.

**FOOD 4326 Experimental Foods (3)** An experimental approach to the study of factors which influence the behavior of foods. Group and individual experiments. Only offered Fall semester. Prerequisite: FOOD 2322 or equivalent. An additional fee is associated with this course.

## HEALTH EDUCATION

In the section of Health Education, the second digit in the course number stands for the following: 0-Special Projects, 1-Foundations, 3-Curriculum and Instruction, 7-Administration.

### HEALTH EDUCATION

#### Minor, Bachelor of Science in Education Degree

Recommendation for certification to teach health education for grades PK-9 requires 29 semester hours, 30 semester hours for teaching grades 9-12, and 32 semester hours for grades PK-12. The additional classes needed for certification are HED 4320, HED 4390, and health electives. Elementary Education Functional Majors (grades 1-6) may use this as an area of concentration. See Director of Clinical Services and Certification for current requirements. (804)

The student will demonstrate a knowledge and/or competencies in the following areas:

- The structures, functions, and interrelationships of body systems as they apply to improving and maintaining healthful living.
- The principles of nutrition and their application to maintaining good health and preventing health problems.
- The use and abuse of legal and illegal drugs and their effects on the human body and society.
- The prevention and management of communicable and chronic diseases and related health care.
- The consumer health issues related to the marketing, selection, and use of health products and services.
- The attaining and maintaining good mental health and its effects on the health of the body.
- The dynamics of interpersonal relationships as related to family life, human sexuality, and growth and development.
- The process of behavior change that favorably affect personal health.
- The expanded model of the Comprehensive School Health Program and the interrelationships of its components.
- The basic concepts of injury prevention both intentional and unintentional, first aid, emergency systems, and the effects of trauma.

Sem. Hours

<b>MINOR REQUIREMENTS</b> . . . . .	<b>22</b>
HED 1100 Personal Health . . . . .	3
HED 1350 Responding to Emergencies . . . . .	3
HED 3360 Meth. in Secondary School Health . . . . .	2
HED 4300 Nutrition & Human Performance . . . . .	2
HED 4310 Drugs & Youth . . . . .	3
PE 2800 Human Anatomy . . . . .	3
PE 2850 Found. of Exercise Physiology . . . . .	3
PSY 4230 Psy. of Adolescence . . . . .	3

Biology majors may substitute BIOL 2401 for PE 2850.

**GENERAL EDUCATION REQUIREMENTS** (pages 34-43) In the minor, HED 1100 fulfills 3 s.h. of Div. III; PSY 4230 fulfills 3 s.h. of Div. II B.

### Special Projects

**HED 4000 Special Projects in Health Education (1-5)** Individual or group study of problems in special areas of interest. *May be repeated for a maximum of 6 semester hours.*

### Foundations

**HED 1100 Personal Health (3)** Health issues in today's society with special reference and application to the present and future life of the student.

### Curriculum and Instruction

**HED 1350 Responding to Emergencies (3)** The first aid practice and theory for common emergencies. Certification for the American Red Cross Responding to Emergencies course may be earned upon completion of all specific requirements.

**HED 3310 Methods in Elementary School Health (2)** Curriculum and lesson plan development, basic health concepts, and methodology of teaching elementary health education.

**HED 3360 Methods in Secondary School Health (2)** Explores the current trends in curriculum development in health education and the legal aspects of school health. Only offered Fall semester. Prerequisite: EDCI 2240.

**HED 4300 Nutrition and Human Performance (2)** Nutrition as it applies to athletics, physical exercise, and health. Only offered Fall semester. Prerequisites: PE 2800 and PE 2850 or equivalent.

**HED 4310 Drugs and Youth (3)** Use and abuse of alcohol and drugs; current problems relative to drug use, abuse, and control; programs in education, law enforcement, and community agencies.

**HED 4320 Teaching Sexuality Education in the School (3)** Prepares the teacher for course development, instruction and integration of sexuality education into the school curriculum.

**HED 4330 First Aid and CPR for Educators\* (1)** Skills and principles of first aid and accident prevention in the schools. Students may receive American Red Cross first aid and CPR certification. \*Not available for graduate credit.

**HED 4350 Advanced First Aid and Emergency Care (3)** Emphasizes the essential knowledge and skills needed to develop the functional first aid capabilities required by policemen, firemen, emergency squad and rescue squad members, ambulance attendants, and other special interest groups. Students taking this course may complete requirements for the American Red Cross Advanced First Aid and Emergency Care Certificate.

**HED 4360 CPR Instructors Training (1)** Procedures, theories, and techniques involved in the teaching of the American Red Cross CPR Modular System course. Students may complete requirements for the Red Cross CPR Modular System Instructor Certificate. Prerequisite: current Red Cross CPR Modular System Certificate.

**HED 4370 Human Diseases (3)** An overview of the agents of disease, the processes of contagion, and the effects on humans. Prerequisites: PE 2850 or BIOL 2401 or equivalent.

**HED 4390 Community Health Education (2)** Various types of health programs conducted by private, volunteer, and official agencies are explored.

### Administration

**HED 4760 Organization and Administration of the School Health Program (2)** The organization and administration of the school health program emphasizing the areas of healthful school living, health services, and health instruction. Prerequisites: HED 3310 or HED 3360.

**HOSPITALITY MANAGEMENT**

In the section of Hospitality Management, the second digit in a course number stands for the following: 7-Professional, 8-Hospitality.

**HOTEL AND RESTAURANT ADMINISTRATION**

**Functional Major, Bachelor of Science Degree (43-205)**

The graduate with a Bachelor of Science degree in Hotel and Restaurant Administration will:

- Exhibit professional hotel or restaurant management knowledge and skills.
- Interact with diverse environments.
- Apply scientific principles to hospitality entrepreneurship.
- Demonstrate knowledge and skills of organizational hierarchy systems and tasks within those systems.
- Use critical thinking, problem solving, communication and investigative skills specific to hotel and restaurant management.
- Gain information of professional organizations and attend meetings in the hospitality industry.

Sem. Hours

**FUNCTIONAL MAJOR REQUIREMENTS . . . . . 65**

FOOD 2322	Food Preparation . . . . .	3
FOOD 3332	Quantity Food Prod. & Service . . . . .	3
FOOD 3333	Food Systems Management . . . . .	3
FOOD 3334	Food Service Equip. & Purch. . . . .	3
HM 1800	Intro. to Hospitality . . . . .	3
HM 4710	Internship . . . . .	5
HM 4720	Hospitality Technology . . . . .	2
HM 4745	Senior Seminar . . . . .	3
HM 2830	Hotel-Res. Sanitation & Safety . . . . .	2
HM 3800	Front Office Oper. & Management . . . . .	3
HM 3844	Dining Room Management. . . . .	3
HM 3850	Plant Operation & Maint. Mgt. . . . .	2
HM 3860	Beverage Mgt. & Marketing . . . . .	3
HM 4800	Hotel & Restaurant Management . . . . .	3
HM 4840	Legal Aspects of Hotel & Res. Mgt. . . . .	3
HM 4850	Hospitality Operations Analysis. . . . .	3
ACCT 2100	Survey of Accounting . . . . .	3
MGT 3310	Principles of Management . . . . .	3
MGT 3325	Business Communications . . . . .	3
HRM 3920	Human Resource Management . . . . .	3
TOUR 4720	Tourism Planning & Development . . . . .	3
TOUR 4730	Tourism Marketing . . . . .	3

**MINOR NOT REQUIRED**

**GENERAL EDUCATION REQUIREMENTS (pages 34-43) . . . . . 48**

CHEM 1104	Div. II A (required) . . . . .	4
ECON 1010	Div. II B (required) . . . . .	3
BTE 1210	Div. II A or	
LIS 1600	Div. II A (required) . . . . .	2

**FREE ELECTIVES . . . . . 11**

**MINIMUM TOTAL . . . . . 124**

**Professional**

**HM 4710 Internship (3-6)** Provides experience for students in cooperating businesses and agencies/organizations. *May be repeated for a maximum of 12 semester hours with no more than 6 semester hours graduate credit.* Prerequisites: 20 semester hours of major course offerings; undergraduate grade-point average of C or above; departmental approval.

**HM 4720 Hospitality Technology (2)** Hotel, restaurant, and industry specific global technologies for management, employees and guests. Prerequisite: BTE 1210 or LIS 1600 or consent of instructor.

**HM 4745 Senior Seminar\* (3)** Philosophy, current issues and trends in hospitality management. Focus on problem-solving styles leading to group and individual research problems. Prerequisites: senior standing and approval of Department Adviser. \*Not available for graduate credit.

**Hospitality**

**HM 1800 Introduction to Hospitality (3)** Hospitality industry overview including history, current ventures and career opportunities.

**HM 2830 Hotel-Restaurant Sanitation and Safety (2)** Sanitation and safety procedures, laws and policies for operations in the hotel-restaurant industry.

**HM 3800 Front Office Operation and Management (3)** Function, procedures, systems and management of the front office within the lodging industry. Delineation of relationships between front office and other hotel department functions.

**HM 3844 Dining Room Management (3)** Develop knowledge and skills necessary for managing the front-of-house areas of food service operations. Prerequisite: FOOD 2322.

**HM 3850 Plant Operation and Maintenance Management (2)** Problems relating to building and plant maintenance. Maintenance and engineering management, organization problems, physical plant maintenance and mechanical maintenance topics as they relate to institutional management are developed.

**HM 3860 Beverage Management and Marketing (3)** An historic perspective of alcoholic beverages and operations. Management's rights, obligations and duties to guests, employees and the public. Merchandising techniques, target marketing and point of sale opportunities for the beverage operation. Only offered Spring semester. An additional fee is associated with this course.

**HM 4800 Hotel and Restaurant Management (3)** Specialized managerial functions involved in operation of hotels, restaurants, and other facilities in the hospitality industry.

**HM 4840 Legal Aspects of Hotel and Restaurant Management (3)** Examination of federal and state laws, including judicial interpretations relevant to hotel and restaurant operations, as well as tort, negligence and criminal liability. Methods for prevention of legal action will be investigated.

**HM 4850 Hospitality Operations Analysis\* (3)** Comprehensive application of manager's final reports in the hospitality industry. Examination of hospitality financial and managerial accounting approach to accounting practices, financial statements, operating activities. Prerequisite: ACCT 2100.

**PHYSICAL EDUCATION**

In the section of Physical Education, the second digit in the course number stands for the following: 0-Special Projects, 1-Foundations, 2-Applied Physical Education, 3-Curriculum and Instruction, 4-Elementary and Secondary Physical Education, 5-Coaching, 6-Athletic Training, 7-Administration and Supervision, 8-Professional Physical Education, 9-Individual Study and Research.

**PHYSICAL EDUCATION**

**Functional Major, Bachelor of Science Degree (43-817)**

The graduate with a Bachelor of Science degree with a functional major in Physical Education will:

- Develop a foundation for a professional philosophy based on both historical and current knowledge of physical education, physical activity, and fitness/wellness.
- Understand physical activity through the use of knowledge of human anatomy, kinesiology, physiology and analysis of movement patterns.
- Expand his/her skills, knowledge and understanding in a variety of physical activities including games, sports, rhythms, and fitness skills.
- Understand and apply first aid procedures, safety factors and risk management involved in physical activity settings.
- Gain an awareness of administering physical education and fitness/wellness programs for diverse populations.
- Properly apply measurement and evaluation in the assessment of physical education and fitness/wellness programs.
- Develop an appreciation for the benefits of an active, healthy lifestyle.

Sem. Hours

**FUNCTIONAL MAJOR REQUIREMENTS . . . . . 48-60**

PE	1100	Orientation to Physical Education . . . . .	1
PE	1120	Microcomputer Applications in Physical Education, Exercise & Sport Science . . . . .	2
PE	2303	Analysis & Tchg. of Aerobic Cond. . . . .	2
PE	2320	Analysis & Tchg. of Weight Training . . . . .	1
PE	2800	Human Anatomy . . . . .	3
PE	2850	Foundations of Exercise Physiology . . . . .	3
PE	3610	Care & Prevention of Injuries . . . . .	2
PE	3800	Kinesiology . . . . .	3
PE	4110	History & Philosophy of Phys. Ed. . . . .	2
PE	4340	Adapted Physical Education . . . . .	3
PE	4740	Legal Liability in Fitness/Wellness, Physical Education, Recreation, & Sports Settings . . . . .	2
PE	4390	Eval. Procedures in Physical Ed. (Area 1), 3 or	
PE	4850	Assessment & Evaluation of Fitness/Wellness (Areas 2 & 3), 3 . . . . .	3

Departmentally approved electives from one of the following areas (see departmental adviser) . . . . . 31-40

**Area 1 Elementary - Secondary certification K-12, 31**

PE	1450	Growth & Dev. in Elem. PE . . . . .	3
PE	2240	A&T of Ind/Dual Activities . . . . .	3
PE	2290	A&T of Innovative Activities . . . . .	2
PE	3280	A&T of Team Activities . . . . .	3
PE	3300	Teaching of Dance . . . . .	2
PE	3315	A&T Outdoor Leisure Skills . . . . .	1
PE	3430	Creative Dance/Rhythms for El. School . . . . .	2
PE	3450	Techniques of Teaching PE Activities in Elem. School . . . . .	3
PE	3460	Techniques of Teaching PE Activities in Mid/High School . . . . .	3
PE	3850	Motor Learning & Control . . . . .	3
PE	4830	Psychological Aspects of PE . . . . .	2
PE	4840	Social Aspects of Phys. Activity . . . . .	2
PE	4760	Physical Education Curriculum . . . . .	2

**Area 2 Fitness/Wellness I (Corporate Fitness), 34-36**

PE	1204	Stress Management . . . . .	1
PE	4341	Physical Activity & Older Adult . . . . .	2
PE	4765	Internship . . . . .	2-4
PE	4860	Fitness Programming & Implementation . . . . .	3
HED	1350	Responding to Emergencies . . . . .	3
HED	4300	Nutrition & Human Performance . . . . .	2
HED	4310	Drugs & Youth . . . . .	3
ACCT	2101	Principles of Financial Acct. . . . .	3
BLAW	2720	Legal Environment of Business . . . . .	3
MKT	3400	Principles of Marketing . . . . .	3
MKT	3420	Principles of Advertising . . . . .	3
MKT	3430	Personal Selling . . . . .	3
PSY	1100	General Psychology . . . . .	3

**Area 3 Fitness/Wellness II (Exercise Science), 36-40**

PE	1204	Stress Management . . . . .	1
PE	4341	Physical Activity & Older Adult . . . . .	2
PE	4765	Internship . . . . .	2-4
PE	4860	Fitness Programming & Implementation . . . . .	3
PSY	4520	Statistics for Behavioral Sciences . . . . .	3
HED	1350	Responding to Emergencies . . . . .	3
HED	4300	Nutrition & Human Performance . . . . .	2
HED	4310	Drugs & Youth . . . . .	3
D&N	3340	Nutrition . . . . .	3
CHEM	2650	Elementary Organic & Biochemistry 5, or	
PHYS	1104	Intro to Sciences: Physics 4, or	
EDCI	1310	Physics for Teachers 3, . . . . .	3
BIOL	2401	Anatomy & Physiology I . . . . .	4
BIOL	2402	Anatomy & Physiology II . . . . .	4
SOC	1800	General Sociology . . . . .	3

**MINOR NOT REQUIRED**

**GENERAL EDUCATION REQUIREMENTS (pages 34-43)** In the major, ICAP 4468 fulfills 3 s.h. of Div. III B . . . . . 45-48  
 PE 1206 Div. III (required) . . . . . 3

**FREE ELECTIVES (Professional Education courses may be required for certification) . . . . . 16-31**

**MINIMUM TOTAL . . . . . 124**

Students may earn teacher certification through careful choice of electives. See the Director of Clinical Services and Certification (Lov 2170) and departmental adviser for specific course work in both General Education and major requirements.



**COACHING****Minor for a Bachelor's Degree**

UCM does not confer teacher certification for this minor.

Certification to coach is not required in the state of Missouri. (731)

	Sem. Hours
<b>MINOR REQUIREMENTS</b> . . . . .	<b>25</b>
PE 2303 Analysis & Tchg. Aerobic Condition . . . . .	2
PE 2320 Analysis & Tchg. Weight Training . . . . .	1
PE 2800 Human Anatomy . . . . .	3
PE 2850 Foundations of Exercise Physiology . . . . .	3
PE 3610 Care & Prevention of Injuries . . . . .	2
PE 3800 Kinesiology . . . . .	3
PE 4740 Legal Liabilities . . . . .	2
PE 4830 Psychological Aspects of Physical Education . . . . .	2
Electives from the following . . . . .	3
PE 2240 Analysis & Tchg. Individual & Dual Activities, 3 or	
PE 3280 Analysis & Tchg. of Team Activities 3, . . .	3
Electives from the following . . . . .	4
PE 4520 Theory & Coaching of Basketball . . . . .	2
PE 4530 Theory & Coaching of Track & Field . . . . .	2
PE 4541 Theory & Coach. of Football . . . . .	2
PE 4550 Theory & Coach. of Volleyball . . . . .	2
PE 4551 Theory & Coach. of Wrestling . . . . .	2
PE 4560 Theory & Coaching of Softball and Baseball . . . . .	2
PE 4561 Theory & Coach. of Soccer . . . . .	2

**FITNESS/WELLNESS****Minor for a Bachelor's Degree**

UCM does not confer teacher certification for this minor.

(841)

	Sem. Hours
<b>MINOR REQUIREMENTS</b> . . . . .	<b>23-24</b>
PE 1204 Stress Management . . . . .	1
PE 1206 Lifetime Fitness . . . . .	3
PE 2303 Analysis & Tchg. of Aerobic Cond. . . . .	2
PE 2320 Analysis & Tchg. of Weight Training . . . . .	1
PE 3610 Care & Prevention of Injuries . . . . .	2
PE 2800 Human Anatomy . . . . .	3
PE 2850 Foundations of Exercise Physiology . . . . .	3
PE 3800 Kinesiology . . . . .	3
PE 4850 Assessment & Evaluation of Fitness/Wellness . . . . .	3
PE 4340 Adapted Physical Education, 3 or	
PE 4341 Physical Activity & the Older Adult, 2 . . .	2-3

**GENERAL EDUCATION REQUIREMENTS** (pages 34-43) In the minor, PE 1206 fulfills 3 s.h. of Div. III.

**PE 1100 Orientation to Physical Education (1)** Orients students to the profession of physical education and to the physical education program at UCM.

**PE 1120 Microcomputer Applications in Physical Education, Exercise and Sport Science (2)** Prepares the undergraduate physical education major to develop and use microcomputer multi-media applications specific to the discipline of physical education, exercise/sport science.

**PE 1200 Fitness Through Activity and Sport (1)** Develops concepts of personal physical fitness as they relate to optimal healthful living.

**PE 1203 Aerobic Conditioning (1)** Preventive and corrective cardiovascular activities and programs.

**PE 1204 Stress Management (1)** Causes, effects and coping techniques vital to living successfully with personal stress and tension.

**PE 1205 Aerobic Dance for Fitness (1)** Aerobic routines for cardiovascular fitness.

**PE 1206 Lifetime Fitness (3)** Developing a healthy lifestyle through exercise and diet. Includes assessment of status, planning, and participating in a program based on the student's needs. Includes scheduled lab.

**PE 1210 Badminton (1)**

**PE 1220 Beginning Bowling (1)** Fundamentals and participation in bowling. (Recommended for the handicapped.)

**PE 1230 Beginning Golf (1)** An additional fee is associated with this course.

**PE 1241 Beginning Tennis (1)**

**PE 1251 Beginning Swimming (1)**

**PE 1255 Jazz Dance (1)** Basic jazz dance technique, warm-ups and variety of jazz movement phases.

**PE 1260 Modern Dance I (1)** Basic modern dance technique and incorporation into dance phrases.

**PE 1270 Ballroom Dance I (1)** Techniques in leading/following, basic positions and steps in the American waltz, fox trot, Lindy (single, double, triple), polka, and schottische.

**PE 1271 Volleyball (1)**

**PE 1273 Ballroom Dance II (1)** Techniques in leading/following, basic steps and positions in the cha-cha-cha, rumba, samba, tango, and mambo. Prerequisite: PE 1270 or consent.

**PE 1280 Basketball (1)**

**PE 1450 Growth and Development in Elementary Physical Education (3)** The sequential and developmental phases of children and the relationship of movement to growth and development.

**PE 2200 Weight Training (1)**

**PE 2220 Weight Control (1)** The relationship between diet, exercise, and weight and the planning of weight control programs based on individual needs.

**PE 2230 Beginning Fencing (1)**

**PE 2240 Analysis and Teaching of Individual and Dual Activities (3)** Knowledge, skill development, teaching cues, skills analyses and teaching skills of individual and dual activities.

**PE 2290 Analysis and Teaching of Innovative Activities (2)**

Knowledge, skill development, teaching cues, skill analyses and teaching skills of innovative activities.

**PE 2303 Analysis and Teaching of Aerobic Conditioning (2)** Basic skills to participate in and instruct in the area of aerobic conditioning.

**PE 2314 Analysis and Teaching of Recreational Sports (1)** Four square, floor table tennis, horseshoes, table tennis, wall paddle tennis, croquet.

**PE 2320 Analysis & Teaching of Weight Training (1)**

**PE 2360 Basic Dance Skills (1)** An introduction to dance through basic steps and rhythmical analysis.

**PE 2410 Movement Skills and Activities for Primary Grades (2)**

Knowledge, understanding, and applications in teaching motor skills.

**PE 2800 Human Anatomy (3)** Detailed study of the structure of the human body. Emphasis on gross and microscopic anatomy of the musculoskeletal, cardiovascular-respiratory, and nervous systems.

**PE 2850 Foundations of Exercise Physiology (3)** The study of cardiovascular, muscle, and nerve physiology. Prerequisite: PE 2800.

**PE 3200 Intermediate Bowling (1)** More advanced fundamentals and participation in bowling.

**PE 3220 Advanced Beginning/Intermediate Swimming (1)**

**PE 3260 Modern Dance II (1)** A continuation of PE 1260 at a more advanced dance technique level. Prerequisite: PE 1260 or consent.

**PE 3270 Intermediate Golf (1)** Advanced skills instruction in putting, approach shots, wood shots and playing experience. Prerequisite: PE 1230. An additional fee is associated with this course.

**PE 3280 Analysis and Teaching of Team Activities (3)** Knowledge, skill development, teaching cues, skills analyses and teaching skills of team activities. Prerequisite: PE 2240 or PE 2290.

**PE 3300 Teaching of Dance (2)** Rhythmical analysis of dance forms and methods for teaching them.

**PE 3315 Analysis and Teaching of Outdoor Leisure Skills (1)**

Introduction to orienteering and angling. Prerequisite: physical education functional majors only.

**PE 3420 Elementary School Physical Education Activities (2)** Theory and practice in stunts and tumbling, self-testing activities, rhythms, skills, and games.

**PE 3430 Creative Dance and Rhythms for the Elementary School (2)** Rhythmical activities in the elementary school, emphasizing basic movement and movement exploration. Prerequisite: 1 semester hour of dance.

**PE 3450 Techniques of Teaching Physical Education Activities in the Elementary Schools (3)** Effective teaching knowledge, skill, and techniques for physical education programs at the elementary level. Prerequisite: admission to Teacher Education Program.

**PE 3460 Techniques of Teaching Physical Education Activities in Middle Schools and High Schools (3)** Effective teaching knowledge, skill and techniques for physical education programs at the middle and high school levels. Prerequisite: admission to Teacher Education Program.

**PE 3610 Care and Prevention of Injuries (2)** Accepted athletic training procedure in the care and prevention of athletic injuries. Prerequisite: PE 2800.

**PE 3800 Kinesiology (3)** Intensive investigation and analysis of human movements. The basic mechanical principles of force, motion, and aerodynamics as related to fundamental physical skills and their application to sports and dance. Prerequisite: PE 2800 and MATH 1111 or MATH 1620.

**PE 3850 Motor Learning and Control (3)** Parameters which influence the acquisition and control of movement skills. Conditions of practice as well as those predominant factors which effect motor learning, i.e., feedback, transfer, motivation, memory and attention.

**PE 4000 Special Projects in Coeducational Physical Education (1-5)** Individual or group study of problems in special areas of interest. May be repeated for a maximum of 5 semester hours.

**PE 4110 History and Philosophy of Physical Education\* (2)** An investigation of the historical and philosophical development of physical education. \*Not available for graduate credit.

**PE 4320 Choreography (2)** Basic choreography as to forms, formations, lines, qualities, relationships, choreographic styles, choreographers of renown and their works, constructive criticism, notation. Prerequisite: consent.

**PE 4340 Adapted Physical Education (3)** A study whereby the full educational services of physical education may be made available to atypical students on all school levels.

**PE 4341 Physical Activity and the Older Adult (2)** Principles of activity applicable to older adults, including recommended programs and evaluations.

**PE 4350 Physical Education for Special Education (2)** Activities and program development as an integral tool in the physical education of the mentally retarded, learning disabled, and emotionally disturbed.

**PE 4390 Evaluation Procedures in Physical Education (3)** The theory of measurement in health and physical education, including the selection, administration, and evaluation of appropriate tests and the interpretation of the results.

**PE 4500 Football Officiating\* (1)** Lectures, readings, class discussions, and field experience in the officiating of intramural, school, and college football games. \*Not available for graduate credit.

**PE 4510 Basketball Officiating\* (1)** Lectures, readings, class discussions, and field experience in the officiating of intramural, school, and college basketball games. \*Not available for graduate credit.

**PE 4520 Theory and Coaching of Basketball (2)** Coaching aids, techniques, strategy, and systems of the activity.

**PE 4530 Theory and Coaching of Track and Field (2)** Coaching aids, techniques, strategy, and systems of training.

**PE 4541 Theory and Coaching of Football (2)** Coaching aids, techniques, strategy, and systems of the activity.

**PE 4550 Theory and Coaching of Volleyball (2)** Coaching theory and techniques, aids, strategy, and systems of volleyball.

**PE 4551 Theory and Coaching of Wrestling (2)** Squad and practice organization, techniques, budget, equipment, match management, and strategy.

**PE 4560 Theory and Coaching of Softball and Baseball (2)** Coaching aids, techniques, strategy, and systems of softball and baseball.

**PE 4561 Theory and Coaching of Soccer (2)** Coaching theory and techniques, aids, strategy, and systems of soccer.

**PE 4590 Administration of Interscholastic Athletics (2)** Organization and management of a program of competitive athletics for schools and colleges.

**PE 4740 Legal Liability in Fitness/Wellness, Physical Education, Recreation and Sport Settings (2)** Acquaints the student with legal research and basic concepts of negligence in governing the school sport and fitness industries.

**PE 4760 Physical Education Curriculum\* (2)** Problems involved in organization and design of physical education curricula.

Prerequisite: admission to Teacher Education Program. \*Not available for graduate credit.

**PE 4765 Internship\* (2-4)** Practical experience in fitness/wellness programs in community centers, corporation settings, or businesses. Prerequisite: PE 4850 and approval of department. \*Not available for graduate credit.

**PE 4830 Psychological Aspects of Physical Education (2)** An application of psychological principles to physical education.

**PE 4840 Social Aspects of Physical Activity (2)** The application of sociological concepts and theories to the study of physical education and sport in American society.

**PE 4850 Assessment and Evaluation of Fitness/Wellness\* (3)** The selection, administration, and interpretation of test and protocols for fitness assessment. Prerequisite: PE 2850. \*Not available for graduate credit.

**PE 4860 Fitness Programming and Implementation\* (3)** Planning, developing and implementing a fitness/wellness program.

\*Not available for graduate credit.

**PE 4880 Methods of Teaching Physical Education\* (2)** Prerequisites: admission to Teacher Education Program; double majors must take a methods course for each major; methods should be taken concurrently with PE 4885 during the Professional Semester. \*Not available for graduate credit.

**PE 4885 Secondary Field Experience II\* (1)** Experiences in the secondary school classroom that provide the teacher candidate more advanced involvement in the teaching-learning process. Prerequisites: admission to Teacher Education Program; should be taken concurrently with PE 4880 during the Professional Semester. \*Not available for graduate credit.

### Integrative Studies General

**IGEN 3472 Sport in American Life (3)** Provides for an understanding and appreciation of the role of sport in American life.

**RECREATION**

In the section of Recreation, the second digit in a course number stands for the following: 0-Special Projects, 1-Foundations, 2-Leadership, 5-Camping and Outdoor Education, 7-Administration and Supervision, 9-Individual Study and Research.

**GENERAL RECREATION**

Major, Bachelor of Science Degree\* (43-814)

The graduate with a Bachelor of Science degree in General Recreation will:

- Impart an understanding of the benefits and impacts of leisure to patrons of his/her community, based on a sound understanding of the conceptual foundations of leisure.
- Develop and implement recreation programs in a range of activity content areas for various populations, marshaling diverse community and human services resources.
- Use diverse community, institutional, natural, cultural, and human service resource to promote and enhance the leisure experience, thus improving the quality of life for all populations.
- Assess goals and objectives for groups and individuals within the leisure service.
- Utilize sound managerial, marketing, and financial processes in the administration/management of leisure service delivery.
- Utilize diverse communication, interaction and facilitation techniques, including leadership, instructional strategies, and emergency management.
- Demonstrate knowledge and use of legal concepts and legislative processes as applied to leisure services, including implementation of risk management plans.

Sem. Hours

**MAJOR REQUIREMENTS . . . . . 40**

REC 1100	Introduction to Recreation . . . . .	3
REC 2100	Implications of Disabling Conditions for Therapeutic Recreation . . . . .	3
REC 2200	Developing Rec. & Tourism Prog. . . . .	3
REC 3210	Leadership & Group Dynamics in Recreation & Tourism Services . . . . .	3
REC 3530	Outdoor Rec. Skills & Adventure . . . . .	3
REC 4710	Managing Recreation & Tourism Enterprises . . . . .	3
REC 4720	Financing Recreation & Tourism Enterprises . . . . .	3
REC 4740	Seminar . . . . .	2
REC 4980	Internship . . . . .	6
TOUR 3500	Microcomputer Applications for Tourism & Recreation . . . . .	3
TOUR 4720	Tourism Planning & Development . . . . .	3
TOUR 4730	Tourism Marketing . . . . .	3
PE 4740	Leisure Education . . . . .	3

Students should see the Program Coordinator for certification requirements in specific areas of interest. Prior to enrollment in REC 4980, the student must complete a 500-hour field work experience in an approved setting, have a minimum of 2.50 grade-point average in the major, and a minimum overall grade-point average of 2.25.

**MINOR REQUIREMENTS . . . . . 18-25**

**GENERAL EDUCATION REQUIREMENTS (pages 34-43) . . . . . 48**

**FREE ELECTIVES . . . . . 11-18**

**MINIMUM TOTAL . . . . . 124**

\*May lead to Missouri Park and Recreation Association Leader Certification.

**GENERAL RECREATION**

Minor for a Bachelor's Degree

UCM does not confer teacher certification for this minor; Missouri Park and Recreation Association certification is not available with this minor. (802) Sem. Hours

**MINOR REQUIREMENTS . . . . . 24**

REC 1100	Introduction to Recreation . . . . .	3
REC 2100	Implications of Disabling Conditions for Therapeutic Recreation . . . . .	3
REC 2200	Developing Rec. & Tourism Prog. . . . .	3
REC 3210	Leadership & Group Dynamics in Recreation & Tourism Services . . . . .	3
REC 3530	Outdoor Rec. Skills & Adventure . . . . .	3
REC 4710	Managing Recreation & Tourism Enterprises . . . . .	3
REC 4720	Financing Recreation & Tourism Enterprises . . . . .	3
TOUR 3500	Microcomputer Applications for Tourism & Recreation . . . . .	3

**Special Projects**

**REC 4000 Special Projects in Recreation\* (1-5)** Individual or group study of problems in special areas of interest. *May be repeated for a maximum of 5 semester hours.* \*Not available for graduate credit.

**Foundations**

**REC 1100 Introduction to Recreation (3)** Designed to introduce the student of recreation and leisure services to the philosophy, history, and significant social forces inherent in the growth and development of the leisure services field.

**REC 2100 Implications of Disabling Conditions for Therapeutic Recreation (3)** Skills for awareness of and service to individuals with disabilities.

**Leadership**

**REC 2200 Developing Recreation and Tourism Programs (3)** Provides an overview and practical experience with the program planning process for recreation and tourism services. Only offered Spring semester. Prerequisite: REC 1100 or TOUR 1900.

**REC 3210 Leadership and Group Dynamics in Recreation and Tourism Services (3)** The basics of group dynamics and leadership as applied to techniques in recreation tourism environments. Prerequisite: REC 1100 or TOUR 1900.

**Camping and Outdoor Education**

**REC 3530 Outdoor Recreation Skills and Adventure (3)** An introduction to experiential education through outdoor recreation adventure programs.

**Administration and Supervision**

**REC 4710 Managing Recreation and Tourism Enterprises\* (3)** Basic functions, management techniques, and operations procedures currently practiced in providing recreation and tourism related services. Prerequisite: REC 3210. \*Not available for graduate credit.

**REC 4720 Financing Recreation and Tourism Enterprises\* (3)** Covers the basic methods and problems of financing public and private recreation and tourism services. Prerequisite: REC 4710. \*Not available for graduate credit.

**REC 4740 Seminar (2)** Covers new and significant publications in the recreation and tourism industry and provides the student with an opportunity to develop basic research skills. Prerequisite: Consent of instructor.

**Individual Study and Research**

**REC 4980 Internship\* (6)** Experience in recreation or tourism services while working in an approved agency under qualified and experienced supervision. Prerequisites: REC 4740 and approval of the internship coordinator. \*Not available for graduate credit.

**TOURISM**

In the section of Tourism, the second digit in a course number stands for the following: 1-Foundations, 2-Leadership, 3-International, 5-Technology, 7-Administration and Supervision, 9-Professional.

**TOURISM**

Major, Bachelor of Science Degree  
(43-843)

The graduate with a Bachelor of Science degree in Tourism will:

- Interact with a variety of clients and consumers.
- Understand perspectives of potential employers and customers.
- Solve service-oriented problems utilizing appropriate concepts, principles, theories and technology.
- Exhibit an understanding/appreciation of global concerns, the diversity of humankind, risk assessment, professional ethics, and legal environments.
- Obtain knowledge related to professional organizations, service learning, and other external sources of professional enrichment.
- Obtain skills needed for professional management within the tourism sector.

Sem. Hours

**MAJOR REQUIREMENTS . . . . . 44-50**

TOUR 1900	Introduction to Tourism . . . . .	3
TOUR 3300	Tourism Destinations . . . . .	3
TOUR 3500	Microcomputer Applications for Tourism & Recreation . . . . .	3
TOUR 3710	Group Tour Operations . . . . .	3
TOUR 4310	International Tourism . . . . .	3
TOUR 4700	Conf. & Convention Planning . . . . .	3
TOUR 4720	Tourism Planning & Development . . . . .	3
TOUR 4730	Tourism Marketing . . . . .	3
TOUR 4740	Special Events Planning . . . . .	3
TOUR 4920	Senior Seminar . . . . .	2
TOUR 4980	Internship . . . . .	6
REC 2200	Developing Rec. & Tourism Prog. . . . .	3
ACCT 2101	Principles of Financial Acct. . . . .	3
HM 4800	Hotel & Restaurant Management . . . . .	3

Modern language requirement, minimum proficiency of the second college course in a selected language. . . . . 0-6

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.

**MINOR REQUIREMENTS . . . . . 18-25**

**GENERAL EDUCATION REQUIREMENTS (pages 34-43) . . . . . 48**

COMM 1000	Div. I B (required) . . . . .	3
BTE 1210	Div. II A or	
LIS 1600	Div. II A (required) . . . . .	2
BIOL 1004	Div. II A (required) . . . . .	4
ECON 1010	Div. II B (required) . . . . .	3
GEOG 2212	Div. II B (required) . . . . .	3
HIST 1350	Div. II B or . . . . .	3
HIST 1351	Div. II B (required) . . . . .	3
GEOG 3201	Div. II D (required) . . . . .	3

**FREE ELECTIVES . . . . . 1-14**

**MINIMUM TOTAL . . . . . 124**

**TOURISM MANAGEMENT**

Minor for a Bachelor's Degree

UCM does not confer teacher certification for this minor.  
(822)

Sem. Hours

**MINOR REQUIREMENTS . . . . . 24**

TOUR 1900	Introduction to Tourism . . . . .	3
TOUR 3300	Tourism Destinations . . . . .	3
TOUR 4310	International Tourism . . . . .	3

TOUR 3500	Microcomputer Applications for Tourism & Recreation . . . . .	3
REC 2200	Developing Rec. & Tourism Prog. . . . .	3
HM 4800	Hotel & Restaurant Management . . . . .	3
TOUR 3710	Group Tour Operations, 3 or	
TOUR 4740	Special Events Planning, 3 . . . . .	3
TOUR 4700	Conf. & Convention Planning, 3 or	
TOUR 4730	Tourism Marketing, 3 . . . . .	3

**GENERAL EDUCATION REQUIREMENTS**

BTE 1210	Div. II A or	
LIS 1600	Div. II A (required) . . . . .	2

**International**

**TOUR 3300 Tourism Destinations (3)** Includes the description of tourism related attributes of various countries.

**TOUR 4310 International Tourism\* (3)** A presentation of the phenomena and relationships arising from the interaction of international tourists, business suppliers, host governments, and host communities in the process of attracting and hosting international tourists. Only offered Spring semester. Prerequisite: TOUR 1900 or HM 1800. \*Not available for graduate credit.

**Technology**

**TOUR 3500 Microcomputer Applications for Tourism and Recreation (3)** Assists the student in becoming literate in the use of microcomputers in the tourism and recreation field. Prerequisite: BTE 1210 or LIS 1600 or consent of instructor.

**Administration and Supervision**

**TOUR 3710 Group Tour Operations (3)** Provides an overview of the group travel industry and the role of group tour operators in providing travel opportunities. Only offered Spring semester. Prerequisite: TOUR 1900.

**TOUR 4700 Conference and Convention Planning\* (3)** Provides an insight into the planning techniques and management strategies used in conference and convention operations. Prerequisite: TOUR 1900 or HM 4800. \*Not available for graduate credit.

**TOUR 4720 Tourism Planning and Development\* (3)** The processes involved in planning quality recreation and tourism destination areas. Only offered Spring semester. \*Not available for graduate credit. Prerequisite: HM 1800 or REC 1100 or TOUR 1900.

**TOUR 4730 Tourism Marketing (3)** An examination of the procedures involved in planning, developing, and implementing a tourism and recreation marketing campaign. Only offered Spring semester. Prerequisite: HM 1800 or REC 1100 or TOUR 1900.

**TOUR 4740 Special Events Planning\* (3)** Presents an overview of the special events field and the current practices in event planning and management. \*Not available for graduate credit. Prerequisite: TOUR 1900.

**Professional**

**TOUR 1900 Introduction to Tourism (3)** The course presents a basic understanding of travel and tourism and provides insight into the development and operations of the various components of the travel industry.

**TOUR 4900 Special Projects in Tourism\* (1-5)** Individual or group study of problems in special areas of interest. May be repeated for a maximum of 5 semester hours. Prerequisite: Consent of Instructor. \*Not available for graduate credit.

**TOUR 4920 Senior Seminar\* (2)** Develop skills necessary to be prepared for addressing current issues/trends in the tourism industry. Prerequisite: Consent of instructor. \*Not available for graduate credit.

**TOUR 4980 Internship\* (6)** Experience in tourism services while working in an approved agency under qualified and experienced supervision. Prerequisites: TOUR 4920 and approval of internship coordinator. \*Not available for graduate credit.

## Nursing

In the Department of Nursing, the second digit in the course number stands for the following: 0-General Theory, 1-Fundamentals of Nursing, 2-Maternal and Child Health, 3-Medical-Surgical Nursing, 4-Community and Mental Health Nursing, 6-Professional Theory.

### Department of Nursing Statement of Policy

#### Program

UCM's Department of Nursing offers a Bachelor of Science in Nursing. The program is accredited by the Commission on Collegiate Nursing Education, One Dupont Circle NW, Suite 530, Washington, DC 20036-1120, and approved by the Missouri State Board of Nursing.

#### Accreditation

The nursing program is approved by the Missouri State Board of Nursing and the Commission on Collegiate Nursing Education. Contact numbers for the Nursing Department's accrediting agencies are: Missouri State Board (573) 751-0681; Commission on Collegiate Nursing Education (202) 887-6791. The Commission on Collegiate Nursing Education is located at One Dupont Circle, NW, Suite 530, Washington, DC 20036.

#### Student Learning Outcomes

The graduate with a Bachelor of Science degree in Nursing will use the knowledge, skills and attitudes obtained in the program to:

- Communicate in a manner that reflects that communication is a reciprocal process utilizing multiple modes in adapting language and communication strategies appropriate to professional role and setting
- Demonstrate intellectual skill based on the use of theories and principles guided by logic and sound judgment to allow for the provision of safe quality nursing care. Using reasoning, the student will be able to assess, plan, intervene and evaluate while providing holistic care in diverse environments utilizing pertinent resources.
- Actively engage in interaction based on mutual respect with collaboration toward goal achievement
- Internalize and demonstrate ethically grounded behaviors reflective of the ANA *Nursing: Scope and Standards of Practice* (2003) and ANA *Code of Ethics for Nurses* (2001)
- Organize, store, retrieve, evaluate, synthesize and annotate professionally related information from print, electronic and other sources to make clinical judgements and solve problems

#### Admission

Students entering UCM as freshmen or by transfer should indicate a pre-nursing major. Admission to the nursing program is conditional upon completion of a minimum of sixty semester hours, completion of all prerequisites necessary for admission to the first semester in the nursing program and the requirements for admission listed below. Admission to the nursing program involves competition between all eligible candidates. The Department of Nursing reserves the right to select among all qualified candidates. Students are admitted in March for Fall semester nursing classes and in October for Spring. The necessary application and forms are available after meeting with an adviser in the Department of Nursing.

#### Admission Criteria to the Undergraduate Nursing Program

1. Evidence of good moral character as determined by the Missouri State Board of Nursing in the Nurse Practice Act (1999) and by the American Nurses' Association Code of Ethics for Nurses (2001).
2. All nursing prerequisites must be completed at the time of admission. Computer literacy is required to be admitted to the nursing program.
3. A minimum of a 2.5 cumulative grade-point average is required at the time of application.
4. Minimum grade of C in all nursing prerequisites and nursing courses. A student receiving a grade lower than C in any nursing prerequisite may repeat that course only one time. If the course was taken at UCM, it must be repeated at UCM.
5. A student receiving more than one D and/or F in a course or courses with a nursing prefix will not be eligible for admission into the program.

6. Students will not be permitted to withdraw more than one time from a nursing prerequisite course without permission of the Department of Nursing.
7. Science prerequisites, as identified in NURSING Functional Major, Bachelor of Science Degree, must have been taken within 10 years of requested semester admission.
8. Applicants for the nursing program must complete the College-BASE Examination with: [either 1) a 235 or better on all 4 subject areas (English, Mathematics, Science and Social Studies) OR 2) obtain a 235 or better on 3 subject areas AND earn a grade of "C" or better in courses related to the subject area in which the student does not achieve a score of 235] and a minimum grade level equivalent of 12 on the Nelson-Denny Reading Test to be eligible for consideration before the Admissions and Progression Committee of the Department of Nursing.
9. Completion of additional requirements such as speech and hearing exam, assessment(s), etc. at the time of application. Check with the nursing department for these requirements.
10. Completed application and examination forms are to be in the office of the Department of Nursing by January 1 for admission to Fall semester nursing classes and July 1 for admission to Spring semester nursing classes.
11. Official transcripts-it is the students responsibility to request ALL official transcripts from other universities and colleges be submitted to the Admissions Department of the University to be posted as part of the student's official transcript by 5 p.m., December 31 for Fall admission and June 30 for Spring admission.
12. A physical exam, required immunizations, and a satisfactory criminal history background check must be complete and validated before the first day of clinical.
13. English as second language students (any student whose primary and secondary education was in a country where the native and official language was not English excluding native American citizens who attended American high schools in another country) must successfully complete the University requirements:
  - a. TOEFL - A score of 600 with a minimum of 55 on each sub-score.
  - b. Test of Spoken English - A minimum score of 250.
  - c. Test of Written English - A minimum score of 5.
 Any student not obtaining these scores can receive assistance in the English Department through the English Language Institute.
14. Two letters of reference.

#### Additional considerations given to the following:

- Academic history with patterns and trends indicating potential for academic success.
- The functional abilities required to be successful in the nursing program, with reasonable accommodation. See **Core Performance Standards**.
- Eligibility for licensure. Completion of the nursing program does not guarantee eligibility to take licensure examination. Refer to the Nurse Practice Act in the state in which you anticipate licensure. In Missouri refer to Sections 335.046 and 335.066 at [www.ecodev.state.mo.us/pr/nursing](http://www.ecodev.state.mo.us/pr/nursing).
- Number of credit hours taken at The University of Central Missouri. Students will be categorized in two classifications for consideration for admission to the nursing program:
  - a. Students who have taken all nursing prerequisite courses at UCM; and
  - b. Students who have transferred credit for one or more nursing prerequisite course(s) from another institution. Nursing prerequisite courses are CHEM 1104, BIOL 2401, BIOL 2402, BIOL 3611, PSY 1100, SOC 1800, D&N 3340, NUR 1700. Grade point averages are a determining factor in selection.
- Additional assessments may be required.

#### Direct Admission Policy:

Upon admission to the University, a student who meets the following criteria may be guaranteed direct admission to the nursing program:

1. Admitted to UCM as freshmen with ACT 22 or higher and a high school CGPA of 3.0.
2. Declared nursing as a major.
3. Maintains a 3.0 GPA at UCM at the end of sophomore year.

4. Meet criteria published in the UCM undergraduate catalog and Department of Nursing Undergraduate Handbook as of the date of formal application.
- Direct admission is limited to 30 students per semester based on admission date to UCM.
- Students who are directly admitted have the same period of time to complete their degree program as other UCM students.
- Direct Admission nursing students complete the nursing application by the set deadlines like all other nursing students.
- A direct Admission nursing student may lose his/her guaranteed place in the nursing program if he/she falls below the specified standards.

### Core Performance Standards for Admission and Progression

#### FUNCTIONAL ABILITY : STANDARD : SOME EXAMPLES OF NECESSARY ACTIVITIES (Not Inclusive)

**Thinking skills:** Critical thinking ability sufficient for sound clinical judgment. Identify cause-effect relationships in clinical situations, develop nursing care plans to integrate data from different sources and decide whether to initiate action or report, ability to interpret variations in vital signs, lab values, among other skills.

**Interaction:** Interpersonal abilities sufficient to interact with individuals, families, and groups from a variety of socio-economic and cultural backgrounds. Establish rapport with patients/clients and colleagues. Works as a team member.

**Communication:** Communication abilities sufficient for productive interaction with others in verbal and written form and other formats. Explain treatment procedures, initiate health teaching, document and interpret nursing actions and patient/client responses.

**Motor skills:** Gross and fine motor abilities sufficient to provide safe and effective nursing care. Move around work area and within confined spaces. Calibrate and use equipment, position clients, insert catheters, injections.

**Sensory/Perceptual:** Auditory/visual and tactile ability sufficient to monitor and assess health needs. Hear monitor alarm, (IV alarm, etc.), emergency signals, auscultatory sounds, cries for help.

#### Re-Application for Admission

A student re-applying for admission to the nursing program within 6 months to a year of the initial application is **not required** to obtain a new physical exam or speech/hearing exam.

A student re-applying for admission to the nursing program over a year's time, but within 18 months of the initial application, is **required** to obtain a repeat physical exam with only those tests being repeated that are deemed necessary by the physician or nurse practitioner. Students need not repeat speech/hearing exam.

A student re-applying for admission to the nursing program over 18 months from the initial application is **required** to obtain a repeat physical exam and a repeat speech/hearing exam.

Students in non-compliance with these requirements will be referred to the Health Committee.

It is the responsibility of the applying student to provide documentation of compliance with these health requirements by the time of admission. Students not in compliance with these requirements will be referred to the Health Committee.

The Health Committee recommends that each student assume responsibility for personal health maintenance. An annual health assessment is strongly encouraged. **Students are required to maintain insurance coverage for illness and accidents throughout their time in the program.**

#### Requirements for Progression in the Nursing Program

1. A student must make a minimum grade of C in all nursing courses to progress in the nursing program. A student receiving a grade lower than C in any nursing course may repeat that course only one time.
2. A student who receives a D or F in a nursing course will be suspended from the program and is required to seek retention in order to repeat the course. The retention process is initiated by the student with the instructor whose course was failed. Completion and filing of the Request for Retention Form is the responsibility of the student. If a student is not retained within a year, that student may be required to repeat all courses within the major.
3. A student receiving more than one D and/or F in a same course with a nursing prefix will not be allowed to reapply.
4. Students who withdraw from the nursing program must follow the Nursing Department's **Withdrawal Policy** contained herein and compete with other students for retention into the program.
5. Requirements for retention to the program are all those set forth in this policy as well as those contained in the current Undergraduate Student Handbook for the Department of Nursing.
6. Students must be successful in passing each course in a particular semester in the program to progress to the next semester.

#### Withdrawal Policy

Students within the program who withdraw from any nursing course are automatically suspended from the program and must follow the Nursing Department's Retention Policy in order to be retained. Students who withdraw from a nursing course and do not follow the requirements of the Nursing Department Withdrawal Policy as stated below will not be considered for retention.

Students who withdraw from any nursing course must compete with other students for retention to the program. Students may be readmitted only once to the nursing program based on the decision of the Admissions and Progression Committee.

Students who have been attending meetings of a nursing course and wish to withdraw should:

#### Clinical/practicum courses

1. Notify their instructor in writing of their desire to withdraw and their reason for this decision.
2. Meet with the chair.
3. Follow the University process for withdrawal (See UCM's University Calendar and Handbook or Catalog for information).

#### Theory courses

1. Notify their instructor in writing of their desire to withdraw and their reason for this decision.
2. Follow the university policy for withdrawal (See UCM's University Planner/Handbook or Catalog for information).

Students are not eligible to withdraw from a nursing clinical/practicum course when they have received their final grade from the instructor. Students who receive a final grade of D or F from the instructor and withdraw from the course will have their erroneous "W" changed to the appropriate failing grade by the Department of Nursing.

Students who have not attended classes in the semester they wish to withdraw may withdraw from nursing courses by following the University Withdrawal Policy.

#### Transfer into the Nursing Major

Transfer of upper-level nursing credit will be considered according to the following procedure:

1. Students will meet the General Education requirements as listed in the current University Catalog.
2. Only students in good standing at a nationally accredited baccalaureate nursing program are eligible for transfer. Credits will be evaluated and allowed in accordance with current UCM and Department of Nursing policy.
3. Evaluation of each transfer student will be made within the Department of Nursing on an individual basis.
4. Students will take a minimum of 40 semester hours of upper-level courses, with a minimum of 30 semester hours in the nursing major at UCM. Those courses required to be taken through UCM in the nursing major are NLSL 4600, NLSL 4601, NUR 4602, NUR 4603.

5. Students will apply for admission to the Department of Nursing and be subject to the regular program admission policy. In addition, the following evaluation process will be followed:  
Credit for nursing courses will be based on a review of content, course description, syllabi, and catalog description,
  - a. If content is basically the same, the Nursing Department Transfer Committee may approve the course for nursing credit. The credit hours approved may be at the maximum credit hour allocation for the UCM nursing course.
  - b. If the content is fairly similar, the Nursing Department Transfer Committee may approve credit and in addition require NUR 4000, Special Projects (2-6 credits).
  - c. Only discrete courses in the content areas of research and ethics, pharmacology and observation and assessment will be considered for transfer as meeting the departmental required courses in these areas.
6. The student will have the chair or dean from the nursing school they are transferring from write a letter to the chair of UCM's Department of Nursing stating they are a student in good standing.
7. All prospective transfer students will be interviewed by the department Chairperson.

**RN-BSN Track for Students Holding the R.N.**

1. Credits from accredited nursing programs will be evaluated and allowed in accordance with current UCM policy.
2. Students will meet the General Education requirements as listed in the current University Catalog for nursing majors.
3. Evaluation of each R.N. student will be made within the Department of Nursing to determine placement in the program.
4. Students will take a minimum of 40 semester hours of upper-level courses, with a minimum of 30 semester hours in the nursing major through UCM.
5. Students will apply for admission to the Department of Nursing and be subject to the regular program admission policy. In addition, the following criteria will be followed:
  - a. Applicants must have a current license to practice nursing in Missouri.
  - b. Credit for non-college nursing courses may be applied to the nursing major upon successful performance on challenge examinations. A maximum of 30 semester hours of special credit may be awarded by challenge.

**Special Expenses**

1. Additional expenses for nursing majors include: uniforms, caps, shoes, name pin, watch with second hand, stethoscope, sphygmomanometer, health insurance, background check, hepatitis B vaccination and other vaccinations and blood tests, selected books and testing expenses.
2. Nursing students must have access to transportation upon admission to the nursing program and be certified in 2-person cardiopulmonary resuscitation for health care providers according to CNE orientation manual.
3. During the semester of anticipated graduation, licensing expenses, the nursing school pin, graduation pictures and invitations are additional expenses.

**Kansas City Experience**

Theory and clinical learning occur in Kansas City during the last year. These experiences make possible exposure to nursing practice in both rural and urban settings.

**NURSING**

**Generic Track, Bachelor of Science Degree**  
(43-133)

Sem. Hours

**MAJOR REQUIREMENTS . . . . . 78**

NUR	1700	Introduction to Professional Nursing . . . . .	2
NUR	3200	Pathophysiology . . . . .	4
NUR	3210	Pharmacological Therapeutics . . . . .	2
NUR	3211	Pharmacological Therapeutics Lab . . . . .	1
NUR	3304	Assessment Across the Lifespan . . . . .	2
NUR	3305	Assessment Across the Lifespan Lab . . . . .	1
NUR	3410	Concepts of Nursing in Wellness . . . . .	3
NUR	3411	Concepts of Nursing in Wellness Practicum . . . . .	2
NUR	3412	Technological Nursing Applications I . . . . .	1
NUR	3510	Concepts of Gerontic Nursing . . . . .	2
NUR	3610	Concepts of Adult & Older Adult Nursing I . . . . .	3
NUR	3611	Concepts of Adult & Older Adult Nursing I Practicum . . . . .	4
NUR	3612	Technological Nursing Applications II . . . . .	2
NUR	4012	Evidence-based Practice/Research . . . . .	2
NUR	4013	Health Policy & Nursing Ethics . . . . .	2
NUR	4410	Concepts of Maternal-Child Nursing . . . . .	3
NUR	4411	Concepts of Maternal-Child Nursing Practicum . . . . .	2
NUR	4510	Concepts of Adult & Older Adult Nursing II . . . . .	3
NUR	4511	Concepts of Adult & Older Adult Nursing II Practicum . . . . .	3
NUR	4512	Advanced Technology & Pharmacological Nursing Applications . . . . .	2
NUR	4602	Synthesis of Nursing Concepts . . . . .	1
NUR	4603	Nursing Residency. . . . .	2
NLSL	4600	Concepts of Nursing Leadership in Management & Community/Mental Health . . . . .	6
NLSL	4601	Concepts of Nursing Leadership in Management & Community/Mental Health Practicum . . . . .	6
BIOL	2401	Anatomy & Physiology I . . . . .	4
BIOL	2402	Anatomy & Physiology II . . . . .	4
BIOL	3611	Microbiology . . . . .	4
D&N	3340	Nutrition . . . . .	3
Electives from the following . . . . . 2			
NUR	2020	Health: Women's Perspective . . . . .	2
NUR	4020	Grief & Loss . . . . .	2
NUR	4030	Human Sexuality . . . . .	2
NUR	4040	Nursing Informatics . . . . .	2
NUR	4405	Aging of Self & Others . . . . .	2
NLSL	3010	Nursing Leadership in Service Learning . . . . .	2

**MINOR NOT REQUIRED**

**GENERAL EDUCATION REQUIREMENTS (pages 34-43)** In the major, BIOL 2401 and BIOL 2402 are allowed to fulfill 4 s.h. of Div. II A . . . . . 44

CHEM	1104	Div. II A (required) . . . . .	4
PSY	1100	Div. II B (required) . . . . .	3
SOC	1800	Div. II B (required) . . . . .	3
ICAP	4111	Div. IV (required) . . . . .	3

**FREE ELECTIVE . . . . . 2**

**MINIMUM TOTAL . . . . . 124**

**RN-BSN Track, Bachelor of Science Degree**

Sem. Hours

**MAJOR REQUIREMENTS . . . . . 40**

NUR	3304	Assessment Across the Lifespan . . . . .	2
NUR	3305	Assessment Across the Lifespan Lab . . . . .	1
NUR	4002	RN-BSN Service Learning . . . . .	3
NUR	4012	Evidence-Based Practice . . . . .	2

NUR	4013	Health Policy and Ethics . . . . .	2
NUR	4050	RN-BSN Role Transition . . . . .	3
NUR	4052	Advanced Concepts of Wellness . . . . .	3
NUR	4406	RN-BSN Concepts of Community Health Nursing . . . . .	3
NUR	4407	RN-BSN Concepts of Community Health Nursing Practicum . . . . .	3
NUR	4608	RN-BSN Concepts of Nursing Leadership in Management . . . . .	3
NUR	4609	RN-BSN Concepts of Nursing Leadership in Management Practicum . . . . .	3
BIOL	2401	Anatomy & Physiology I . . . . .	4
BIOL	2402	Anatomy & Physiology II . . . . .	4
BIOL	3611	Microbiology . . . . .	4
*D&N	3340	Nutrition . . . . .	3
ICAP	4111	Socio-Econ. Factors Impact Health . . . . .	3
		Nursing Elective . . . . .	2-6
*Potential to challenge.			
		Electives from the following . . . . .	2
NUR	2020	Health: Women’s Perspective . . . . .	2
NUR	4020	Grief & Loss . . . . .	2
NUR	4030	Human Sexuality . . . . .	2
NUR	4040	Nursing Informatics . . . . .	2
NUR	4405	Aging of Self & Others . . . . .	2
NLSL	3010	Nursing Leadership in Service Learning . . . . .	2
<b>MINOR NOT REQUIRED</b>			
<b>GENERAL EDUCATION REQUIREMENTS</b> (pages 34-43) In the major, BIOL 2401 and BIOL 2402 are allowed to fulfill 4 s.h. of Div. II A . . . . .			
CHEM	1104	Div. II A (required) . . . . .	4
PSY	1100	Div. II B (required) . . . . .	3
SOC	1800	Div. II B (required) . . . . .	3
ICAP	4111	Div. IV (required) . . . . .	3
<b>MINIMUM TOTAL</b> . . . . .			<b>119-124</b>

**NLSL 3010 Nursing Leadership in Service Learning (2)** Basic information about nursing leadership roles in health care settings. Active participation in a service learning experience. Prerequisite: Sophomore standing

**NLSL 4600 Concepts of Nursing Leadership in Management and Community Health/Mental Health (6)** Integrates concepts of community and mental health nursing with concepts of nursing leadership and management. Overview of concepts and skills of dynamic and creative leadership and management for high quality nursing. Prerequisites: NUR 4050 for RNS; NUR 4410, NUR 4411, NUR 4510, NUR 4511, NUR 4512. Corequisite: NUR 4601 for generic students.

**NLSL 4601 Concepts of Nursing Leadership in Management and Community Health/Mental Health Practicum (6)** Application of leadership and management functions along with community and mental health nursing concepts within health care settings. Prerequisites: NUR 4050 and NUR 4600 or concurrently for RNs. Corequisite: NUR 4600 for generic students.

**NUR 1700 Introduction to Professional Nursing (2)** Introduces the learner to the outcomes assessment curriculum utilized by the Department of Nursing.

**NUR 2020 Health: The Women’s Perspective (2)** An introduction to the physiological, psychosocial, and economic factors that historically have impacted upon the health of women from selected cultural backgrounds with emphasis upon major health care issues currently affecting women. Open to nursing and nonnursing majors.

**NUR 3200 Pathophysiology (4)** An examination of common pathophysiological alterations in human structure and function across the lifespan Prerequisites: BIOL 2401 and BIOL 2402.

**NUR 3210 Pharmacological Therapies (2)** Effects of chemicals used in the prevention, diagnosis and treatment of disease. Incorporation of patient teaching about pharmacological therapeutics. Prerequisites: CHEM 1104; Admission to nursing program for nursing majors.

**NUR 3211 Pharmacological Therapies Lab (1)** Application of

basic pharmacotherapeutic knowledge within nursing process. Calculation and administration of pharmacological agents is practiced. Prerequisites: CHEM 1104; Admission to nursing program. Corequisite: NUR 3210 for nursing majors.

**NUR 3304 Assessment Across the Lifespan (2)** Professional nursing observation and physical assessment of the individual in health care delivery systems. Basic for systematic assessment skills used within the nursing process framework. Prerequisites: BIOL 2401 and BIOL 2402. Corequisite: NUR 3305.

**NUR 3305 Assessment Across the Lifespan Lab (1)** Application of nursing assessment skills including interviewing, taking health histories, and physical examination. Prerequisites: BIOL 2401 and BIOL 2402. Corequisite: NUR 3304.

**NUR 3410 Concepts of Nursing in Wellness (3)** An introduction to functional health patterns and lifespan implications for health promotion and disease prevention from a nursing perspective. Prerequisite: Admission to the nursing program. Corequisite: NUR 3411. An additional fee is associated with this course.

**NUR 3411 Concepts of Nursing in Wellness Practicum (2)** Application of health promotion and disease protection from a nursing perspective. The nursing role is explored within the context of individual, family and community health. Prerequisite: Admission to the nursing program. Corequisite: NUR 3410.

**NUR 3412 Technical Nursing Applications I (1)** Theory and application of basic nursing and technological skills. Prerequisite: Admission to the nursing program. An additional fee is associated with this course.

**NUR 3510 Concepts of Gerontic Nursing (2)** An overview of nursing science specific to care of the aging adult with focus on physiologic, emotional, and spiritual aspects of aging. Prerequisite: NUR 3411. Corequisite: NUR 3611.

**NUR 3610 Concepts of Adult and Older Adult Nursing I (3)** Continuation of nursing process with emphasis on nursing science applicable to individuals experiencing chronic alterations in health. Prerequisites: NUR 3410 and NUR 3411. Corequisites: NUR 3611 and NUR 3612. An additional fee is associated with this course.

**NUR 3611 Concepts of Adult and Older Adult Nursing I Practicum (4)** Continued application of nursing process with emphasis on nursing science applicable to individuals experiencing chronic alterations in health. Prerequisites: NUR 3410 and NUR 3411. Corequisites: NUR 3610 and NUR 3612.

**NUR 3612 Technology Nursing Applications II (2)** A performance based course focusing upon current clinical technology applications in nursing and theoretical rationales associated with these applications. Corequisites: NUR 3610 and NUR 3611.

**NUR 4000 Special Projects in Nursing (1-3)** Investigation of contemporary problems and issues in nursing by selected individuals or groups.

**NUR 4002 RN-BSN Service Learning (3)** Basic information about nursing leadership roles in providing service learning. Active participation in a service learning experience. Prerequisites: NUR 4050, admission to the RN-BSN Nursing Completion Program.

**NUR 4012 Evidence-based Practice/Research (2)** An overview of research designed to introduce the student to the intellectual skills needed to identify, conduct, report and critique nursing research studies. Prerequisite: Admission to the nursing program or RN standing.

**NUR 4013 Health Policy and Nursing Ethics\* (2)** An overview of professional issues and ethics in nursing. Exploration of health policies impacting nursing practice. Prerequisite: Junior or RN standing. \*Not available for graduate credit.

**NUR 4020 Grief and Loss (2)** A seminar designed to assist various pre-professionals to understand and deal with loss and death either in a professional capacity or on a personal basis. Open to nursing and nonnursing majors.

**NUR 4030 Human Sexuality (2)** Current theory regarding the biological, cultural, and behavioral parameters of human sexuality. Open to nursing and nonnursing majors.



**NUR 4040 Nursing Informatics (2)** Introduces the student to the synergistic use of nursing, information and computer sciences unique to nursing informatics. Explores impact on nursing practice roles and quality of patient care. Prerequisite: meeting general education requirement for technology.

**NUR 4050 Concepts and Theories for Role Transition\* (6)** Nursing concepts and theories for role transition and outcomes-based learning for the returning registered nurse. Only offered Fall semester. Prerequisite: Registered Nurse License. \*Not available for graduate credit.

**NUR 4052 RN-BSN Concepts of Wellness (4)** Concept of health patterns occurring throughout the life span and implications of health promotion, disease prevention and health maintenance are viewed from a nursing perspective. Prerequisites: Registered Nurse License; general education and prerequisite courses completed.

**NUR 4405 Aging of Self and Others (2)** Seminar concerning an individual's aging in our society. Focus is on how one perceives and adapts to the aging of self and others. Open to nursing and nonnursing majors.

**NUR 4406 Concepts of Community Health Nursing (4)** Clinical application of theories, concepts, and skills of dynamic, creative nursing and nursing leadership within a selected setting of today's changing health care environment. Prerequisites: NUR 4406, NUR 4407, NUR 4608, and NUR 4609.

**NUR 4407 RN-BSN Con of Com Hlth Nursg Practicum (3)** Application of theories and skills of community health nursing to individuals, families, groups, and communities experiencing physical and psychosocial alterations or potential alterations in health. Prerequisites: NUR 4050, NUR 4052, registered nurse in the RN-BSN Completion Program; or concurrent NUR 4406.

**NUR 4410 Concepts of Maternal-Child Nursing (3)** This course is a continuation of the nursing process with emphasis on nursing science applicable to the childbearing and childrearing family. Prerequisites: NUR 3610 and NUR 3611. Corequisite: NUR 4411.

**NUR 4411 Concepts of Maternal Child Nursing Practicum (2)** Continuation of nursing process with emphasis on nursing science applicable to the childbearing and childrearing family. Prerequisite: NUR 3611. Corequisite: NUR 4410.

**NUR 4510 Concepts of Adult and Older Adult Nursing II (3)** Overview of nursing science applicable to the acutely and critically ill adult. Prerequisites: NUR 3610, NUR 3611, NUR 3510, NUR 3612. Corequisite: NUR 4511.

**NUR 4512 Advanced Technological and Pharmacological Nursing Applications (2)** This course is designed to increase knowledge of and ability to apply advanced pharmacology and technology to nursing practice. Corequisites: NUR 4410, NUR 4411, NUR 4510 and NUR 4511.

**NUR 4602 Synthesis of Nursing Concepts (1)** Synthesis of program outcomes for transition into nursing practice as a graduate nurse. Prerequisites: NUR 4511, NUR 4512, NUR 4411.

**NUR 4603 Nursing Residency (2)** Application of theories, concepts, and skills of dynamic and creative nursing and nursing leadership within a selected setting. Corequisites: NUR 4600, NUR 4601, and NUR 4602.

**NUR 4605 RN-BSN Nursing Residency (3)** Clinical application of theories, concepts, and skills of dynamic, creative nursing and nursing leadership within a selected setting of today's changing health care environment. Prerequisites: NUR 4050, NUR 4052, registered nurse in the RN-BSN Completion Program; or concurrent NUR 4608.

**NUR 4608 RN-BSN Con of Nursg Leadership in Management (4)** Application of leadership and management theories and skills within the ever changing health care settings. Prerequisites: NUR 4050, NUR 4052, registered nurse in the RN-BSN Completion Program; concurrent NUR 4609.

**NUR 4609 RN-BSN Con of Nursing Leadership in Management Practicum (3)** Application of leadership and management theories and skills within the ever changing health care settings. Prerequisites: NUR 4050, NUR 4052, registered nurse in the RN-BSN Completion Program; or concurrent NUR 4608.

**Integrative Studies Capstone**

**ICAP 4111 Socio-Economic Factors Impacting Health\* (3)** Examines selected socio-economic issues and their impact on health. \*Not available for graduate credit.

**Safety Sciences**

In the Department of Safety Sciences, the second digit in the course number stands for the following: 0-General Safety, 1-Industrial Hygiene, 2-Transportation Safety, 3-Emergency Management, 4-Industrial Safety, 5-Loss Control, 7-Security, 8-Fire Science, 9-Individual Study and Research.

**SAFETY MANAGEMENT**

Major, Bachelor of Science Degree (43-243)

Program Outcomes.

The graduate with a Bachelor of Science degree in Safety Management will use the knowledge and skills obtained in the programs to:

- Demonstrate an awareness of legal, professional and ethical responsibilities
- Understand the importance of continuous professional development
- Possess knowledge of contemporary Safety Science and Technology issues faced in local, national and global contexts
- Identify managerial solutions using business principle models
- Identify behavioral solutions to occupational safety and health problems.

**Admission Statement:** Students seeking admission to this program must have a minimum 2.20 cumulative grade-point average and have completed a semester each of college algebra (or higher math), chemistry with lab, and physics, and achieve a grade-point of 2.00 averaged over the three courses. These courses meet basic program assessment outcomes in science and math.

Application should be made when the student has completed more than 30 semester hours and has at least 30 semester hours remaining. An assessment examination must be completed during the last semester of course work. Students may apply to the program by obtaining a degree audit from the Office of Academic Advisement and submitting it to the department for approval.

Sem. Hours

**MAJOR REQUIREMENTS . . . . . 55**

SAFE 1000	Exploring Safety Sciences . . . . .	1
SAFE 3000	Prin. of Accident Causation & Prev. . . . .	3
SAFE 3070	Psychology & Philosophy of Safety . . . . .	3
SAFE 4000	Ergonomics in Safety & Health . . . . .	3
SAFE 4010	Accident Investigation . . . . .	3
SAFE 4020	Legal Aspects of Safety & Health . . . . .	3
SAFE 4035	Safety Program Management . . . . .	3
SAFE 3120	Industrial Hygiene . . . . .	3
SAFE 4140	Safety & Health Laboratory . . . . .	3
SAFE 4215	Transportation & Storage of Hazardous Materials . . . . .	3
SAFE 4560	Systems Safety . . . . .	3
SAFE 3430	Industrial Hazard Control . . . . .	3
SAFE 4425	Safety & Health Legislation & Standards . . . . .	3
SAFE 4430	Workers Compensation Legislation . . . . .	3
SAFE 4435	Environmental Compliance . . . . .	3
SAFE 4510	Loss Control . . . . .	3
SAFE 4520	Safety & Risk Analysis . . . . .	3
SAFE 4940	Introductory Quantitative Methods . . . . .	3
SAFE 4990	Intern. in Safety Sciences, 3 or	
SAFE 4910	Spec. Proj. in Safety Sciences, 3 . . . . .	3

**MINOR REQUIREMENTS . . . . . 18-22**

**GENERAL EDUCATION REQUIREMENTS (pages 34-43) . . . . . 48**

MATH 1111	Div. I C (required) . . . . .	3
PHYS 1103	Div. II A (required) . . . . .	3
CHEM 1104	Div. II A (required) . . . . .	4
PSY 1100	Div. II B (required) . . . . .	3

ICAP 4115 Div. IV B (required) . . . . .	3
<b>FREE ELECTIVES</b> . . . . .	<b>0-4</b>
<b>MINIMUM TOTAL</b> . . . . .	<b>125</b>

**SAFETY**

**Minor for a Bachelors Degree**

UCM does not confer teacher certification for this minor  
 Students seeking a Safety Management Major, Bachelor of Science Degree are restricted from pursuing a Safety Minor.  
 (193)

	Sem. Hours
<b>MINOR REQUIREMENTS</b> . . . . .	<b>24</b>
SAFE 3000 Prin. of Accident Causation & Prev. . . . .	3
SAFE 3015 Emergency Preparedness . . . . .	3
SAFE 4010 Accident Investigation . . . . .	3
SAFE 4035 Safety Program Management . . . . .	3
SAFE 3120 Industrial Hygiene . . . . .	3
SAFE 4425 Safety & Health Legislation & Standards . . . . .	3
SAFE 4430 Workers Compensation Legislation . . . . .	3
SAFE 1800 Introduction to Fire Science . . . . .	3

**FIRE SCIENCE**

**Minor for a Bachelor's Degree**

UCM does not confer teacher certification for this minor  
 (177)

	Sem. Hours
<b>MINOR REQUIREMENTS</b> . . . . .	<b>24</b>
SAFE 4020 Legal Aspects of Safety & Health . . . . .	3
SAFE 1800 Introduction to Fire Science . . . . .	3
SAFE 2800 Fire Prevention & Protection . . . . .	3
SAFE 4800 Water & Sprinkler Systems Analysis . . . . .	3
SAFE 4810 Fire Extinguishing & Alarm Sys. . . . .	3
SAFE 4830 Fire Investigation . . . . .	3
SAFE 4850 Industrial Fire Protection . . . . .	3
CMGT 3330 Bldg. Codes & Code Adm. . . . .	3

**SECURITY**

**Minor for a Bachelor's Degree**

UCM does not confer teacher certification for this minor  
 (185)

	Sem. Hours
<b>MINOR REQUIREMENTS</b> . . . . .	<b>21</b>
SAFE 1700 Introduction to Security . . . . .	3
SAFE 3700 Security Org. & Management . . . . .	3
SAFE 4710 Security Technology . . . . .	3
SAFE 4830 Fire Investigation . . . . .	3
ACCT 2101 Principles of Financial Act. . . . .	3
MGT 1300 Introduction to Business . . . . .	3
BLAW 2720 Legal Environment of Business . . . . .	3

**OCCUPATIONAL SAFETY AND HEALTH**

**Functional Major, Bachelor of Science Degree**

(43-226)

The graduate with a Bachelor of Science degree in Occupational Safety and Health will use the knowledge and skills obtained in the programs to:

- Demonstrate an awareness of legal, professional and ethical responsibilities
  - Understand the importance of continuous professional development
  - Possess knowledge of contemporary Safety Science and Technology issues faced in local, national and global contexts
  - Identify technical solutions to occupational safety and health problems
  - Identify scientific solutions to the mitigation of hazardous exposures.
- OSH Program Educational Objectives.

Additionally, the graduate with a Bachelor of Science in Occupational Safety and Health will use the knowledge and skills obtained in

the programs to demonstrate the following Program Educational Objectives:

- Demonstrate the ability to communicate professionally both verbally and in writing.
- Apply professional integrity and ethical standards.
- Analyze the importance of contemporary, global and societal issues as they relate to the practice of occupational safety and health.
- Develop, coordinate and/or participate on multidisciplinary teams to protect people, property and the environment..
- Engage in life-long learning for the purpose of enhancing discipline specific technical competencies.
- Evaluate, recommend and implement appropriate technical and scientific hazard mitigation strategies.

**Admission Statement:** Students seeking admission to this program must have a minimum 2.20 cumulative grade-point average and have completed a course in college algebra (or higher math), CHEM 2650, and PHYS 1101, with a minimum 2.00 grade-point average for the three courses combined. These three courses meet basic program assessment outcomes in science and math. Application should be made when the student has completed more than 30 semester hours and has at least 30 semester hours of course work remaining. An assessment examination must be completed during the last semester of course work. Students may apply upon completion of the above requirements to the program by obtaining a degree audit from the Office of Academic Advisement and submitting it to the department for approval.

**Accreditation:**

The Occupational Safety and Health program is accredited by the Applied Science Accreditation Commission of ABET located at 111 Market Place, Suite 1050, Baltimore, MD 21202-4012; phone 410-347-7700.

	Sem. Hours
<b>FUNCTIONAL MAJOR REQUIREMENTS</b> . . . . .	<b>69</b>

SAFE 1000 Exploring Safety Sciences . . . . .	1
SAFE 3000 Prin. of Accident Causation & Prev. . . . .	3
SAFE 4000 Ergonomics in Safety & Health . . . . .	3
SAFE 4010 Accident Investigation . . . . .	3
SAFE 4020 Legal Aspects of Safety and Health . . . . .	3
SAFE 4035 Safety Program Management . . . . .	3
SAFE 3120 Industrial Hygiene . . . . .	3
SAFE 4140 Safety & Health Laboratory . . . . .	3
SAFE 4560 Systems Safety . . . . .	3
SAFE 3430 Industrial Hazard Control . . . . .	3
SAFE 4425 Safety & Health Legislation & Standards . . . . .	3
SAFE 4430 Workers Compensation Legislation . . . . .	3
SAFE 4435 Environmental Compliance . . . . .	3
SAFE 4850 Industrial Fire Protection . . . . .	3
SAFE 4940 Introductory Quantitative Methods . . . . .	3
SAFE 4990 Intern. in Safety Sciences . . . . .	6
BIOL 2401 Anatomy & Physiology I . . . . .	4
CHEM 2650 Elem. Organic & Biochemistry . . . . .	5
PHYS 1101 College Physics I . . . . .	4
PHYS 1102 College Physics II . . . . .	4
MATH 1131 Calculus for Business & Econ. . . . .	3

**\*MINOR NOT REQUIRED**

<b>GENERAL EDUCATION REQUIREMENTS</b> (pages 34-43) In the functional major, PHYS 1101 and PHYS 1102 are allowed to fulfill 3 s.h. of Div. II A . . . . .	<b>45</b>
MATH 1111 Div. I C (required) . . . . .	3
CHEM 1104 Div. II A (required) . . . . .	4
PSY 1100 Div. II B (required) . . . . .	3
ICAP 4115 Div. IV B (required) . . . . .	3

<b>FREE ELECTIVES</b> . . . . .	<b>10</b>
<b>MINIMUM TOTAL</b> . . . . .	<b>124</b>

\*Students wishing to pursue the masters program in Industrial Hygiene should minor in Chemistry. The requirement for CHEM 2650 and CHEM 1104 will be met by the Chemistry Minor.

**CRISIS & DISASTER MANAGEMENT**

Major, Bachelor of Science Degree  
(43-248; 43-250; 43-251)

The graduate with a Bachelor of Science degree in Crisis and Disaster Management will use the knowledge and skills obtained in the programs to:

- Demonstrate an awareness of legal, professional and ethical responsibilities
- Understand the importance of continuous professional development
- Possess knowledge of contemporary Safety Science and Technology issues faced in local, national and global contexts
- Describe the four phases of emergency management: preparedness, mitigation, response, and recovery
- Outline the roles and responsibilities of the private sector, public sector, and non-governmental organizations in the state and local emergency response plans
- Use technological tools to organize information, communicate, and respond to crisis and disaster events.

**CRISIS AND DISASTER MANAGEMENT**

Bachelor of Science Degree

Sem. Hours

**MAJOR REQUIREMENTS . . . . . 45**

SAFE 3000	Prin. of Accident Causation & Prev. . . . .	3
SAFE 3120	Industrial Hygiene . . . . .	3
SAFE 3300	Intro. Crisis & Disaster Management . . . . .	3
SAFE 3340	Community Mitigation and Recovery . . . . .	3
SAFE 4320	Disaster Management Technology. . . . .	3
SAFE 4380	Integrated Emergency Management . . . . .	3
SAFE 4920	Research Issues in C&DM . . . . .	3
SAFE 4950	Technology Application Studies. . . . .	3
SAFE 4960	Field Exercise Project . . . . .	3
SAFE 4980	Practicum in Crisis & Disaster Mgmt. . . . .	3
	Departmentally approved communication elective. . . . .	3

**SELECT ONE OF THE FOLLOWING OPTIONS . . . . . 12**

**EMERGENCY MANAGEMENT OPTION**

(43-248)

SAFE 3015	Emergency Preparedness . . . . .	3
SAFE 3335	Emergency Response . . . . .	3
SAFE 4335	Disaster and Society. . . . .	3
	Departmentally approved technical elective . . . . .	3

**HAZARDOUS MATERIALS OPTION**

(43-250)

SAFE 3325	Hazardous Materials Emer. Response . . .	3
SAFE 4345	Managerial Issues in Haz. Materials . . .	3
SAFE 4215	Trans. and Storage of Haz. Materials . . .	3
	Departmentally approved technical elective . . . . .	3

**BUSINESS CONTINUITY OPTION**

(43-251)

SAFE 3375	Business Continuity Planning . . . . .	3
SAFE 4720	Personnel and Information Security . . .	3
SAFE 4365	Crisis Management . . . . .	3
	Departmentally approved technical elective . . . . .	3

**MINOR REQUIREMENTS . . . . . 18-25**

**GENERAL EDUCATION REQUIREMENTS (pages 34-43) . . . . . 48**

MATH 1111	Div. I C (required) . . . . .	3
CHEM 1103	Div. II A (required), 3 or	
CHEM 1104	Div. II A (required), 4 . . . . .	3-4

**FREE ELECTIVES . . . . . 6-13**

**MINIMUM TOTAL . . . . . 124**

**DRIVER EDUCATION**

Endorsement to teach driver education in grades 9-12. Teacher must be certificated in another elementary, middle school or secondary teaching field.

Sem. Hours

**MINOR REQUIREMENTS . . . . . 12**

DrEd 2010	Introduction to Safety Education . . . . .	3
DrEd 2020	Driver Task Analysis . . . . .	3
DrEd 2030	Dev. Vehicle Operation Skills & Competencies . . . . .	3
DrEd 2040	Developing Classroom Knowledge . . . . .	3

**General Safety**

**SAFE 1000 Exploring the Safety Sciences (1)** An overview of safety as an academic endeavor including consideration of the sub disciplines of safety, requirements of students, and professional opportunities.

**SAFE 2010 Safety: A Personal and Societal Focus (3)** A critical examination of the role of safety in today's world. Enhances the student's critical thinking processes so the learner can analyze variables influencing risks associated with life's activities.

**SAFE 3000 Principles of Accident Causation and Prevention (3)**

Traces the development of the safety movement, provides a background useful in handling problems and procedures of typical school, industrial, transportation, civil defense, and emergency safety programs.

**SAFE 3015 Emergency Preparedness (3)** Legal responsibilities of environmental and human protection. An examination of staff functions and responsibilities during major emergencies, resulting from human errors and natural disasters, as they influence human and environmental loss potentials.

**SAFE 3070 Psychology and Philosophy of Safety (3)** Problems of behavior, causes of accidents, and the application of principles of psychology, philosophy, and ethics in the development and management of safe behavior on and off the job.

**SAFE 4000 Ergonomics in Safety and Health (3)** An introduction into the role and application of ergonomics in a comprehensive safety program.

**SAFE 4010 Accident Investigation (3)** Fundamentals and techniques of investigating accidents. Prerequisite: SAFE 3000 and SAFE 3120.

**SAFE 4015 School Safety, Security and Crisis Management (3)** Provides school personnel with current information addressing school safety and security needs, including an analysis of threat identification, violence prevention, safety plans, and crisis response.

**SAFE 4020 Legal Aspects of Safety and Health (3)** An investigation of the legal problems confronting the safety and health specialist. Prerequisite: SAFE 3000.

**SAFE 4035 Safety Program Management (3)** Examination of theory and practices of safety and health management. Includes planning programs, contemporary safety and health management practices, and programmatic impact of organizational theory. Prerequisite: Senior status or consent of instructor.

**Industrial Hygiene**

**SAFE 3120 Industrial Hygiene (3)** The recognition, evaluation and control of workplace health hazards.

**SAFE 4140 Safety and Health Laboratory (3)** A lab course using instrumentation commonly used in the evaluation of the workroom environment and equipment for safety. Prerequisites: SAFE 3120 and SAFE 3430, or equivalent. An additional fee is associated with this course.

**SAFE 4150 Noise Measurements (2)** Physics of sound, measurement and control of noise. Laboratory required. Prerequisite: one year of college physics or equivalent.

**SAFE 4160 Industrial Ventilation for Environmental Safety and Health (3)** Industrial ventilation systems designed to control health and safety hazards in the work environment with emphasis given to the design of local exhaust systems. Prerequisite: SAFE 3120 or equivalent.

### Transportation Safety

**SAFE 4215 Transportation and Storage of Hazardous Materials (3)** A study of the state-of-the-art of safe methods for the transportation and storage of hazardous materials. Prerequisite: SAFE 3000 or SAFE 3300 or equivalent.

**SAFE 4250 Traffic Engineering (3)** Planning, design and operation of effective and efficient traffic movement systems. Various types of traffic studies, traffic control techniques and devices, traffic flow patterns, street lighting and street and parking are presented and discussed. Students participate in field studies.

**SAFE 4260 Management of Fleet Safety Programs (3)** The role and responsibilities transportation officials have in the administration and operation of a motor fleet safety program; the study of U.S. Department of Transportation Regulations.

### Emergency Management

**SAFE 3300 Introduction to Crisis and Disaster Management (3)** Natural, technological, and man-caused crises and disasters. All-hazards mitigation, preparedness, response, and recovery systems. Roles and responsibilities of government, non-governmental organizations, business, and industry.

**SAFE 3325 Hazardous Materials Emergency Response (3)** Properties of hazardous materials. Development and implementation of plans/programs required for safe response. Utilization of tools and techniques during response to spills and releases. Prerequisites: SAFE 3300 or permission.

**SAFE 3335 Emergency Response (3)** Management of resources during operations. Emphasis on warning systems, emergency operations centers, and incident command systems. Topics include human behavior, public health and safety. Prerequisites: SAFE 3300 or permission.

**SAFE 3340 Community Mitigation and Recovery (3)** Concept and meaning of risk. Integration of mitigation during development, post-disaster redevelopment, and maintenance; formation of disaster-resistance communities, including sociological and political considerations. Prerequisites: SAFE 3300 or permission.

**SAFE 3375 Business Continuity Planning (3)** Planning methodologies utilized by business and industry. Risk identification, business impact analysis, and the adoption of alternative recovery methods for critical processes. Prerequisites: SAFE 3300 or permission.

**SAFE 4320 Disaster Management Technology\* (3)** Technologies used in support of disaster operations. Tools and techniques to collect, analyze, and manage information. Including communication systems, modeling, mapping, and emergent technologies. \*Not available for graduate credit.

**SAFE 4335 Disaster and Society\* (3)** Impact of disasters on social systems. Disaster mythology; individual and community response. Communications within affected groups and organizations. Prerequisite: SAFE 3300 or permission. \*Not available for graduate credit.

**SAFE 4345 Managerial Issues in Hazardous Materials\* (3)** Addresses managerial concerns of the Incident Commander at the community/organization level. Emphasis is placed on strategic goals and decision-making. Other subjects covered include response planning, personnel and training, operation of command posts, and use of the Incident Command System. Prerequisites: SAFE 3300 or permission. \*Not available for graduate credit.

**SAFE 4365 Crisis Management\* (3)** Systematic study of crisis in business and industry; vulnerability analysis, disaster-resistant companies, crisis communications strategies, employee support services, and public relations. Prerequisites: SAFE 3300 or permission. \*Not available for graduate credit.

**SAFE 4380 Integrated Emergency Management\* (3)** Factors influencing multi-agency coordination during phases of disaster management. Explores relationships between public and private sector institutions and collaboration during emergency incidents. Prerequisites: SAFE 3300 or permission, and senior status. \*Not available for graduate credit.

### Industrial Safety

**SAFE 3430 Industrial Hazard Control (3)** The techniques for the control of mechanical, electrical and chemical hazards. The Occupational Safety and Health Standards which interface with these areas will also be included. Prerequisite: SAFE 3000 or SAFE 3120.

**SAFE 4425 Safety and Health Legislation and Standards (3)** A comprehensive study of legislation and standards designed to protect the worker. Prerequisite: SAFE 3000.

**SAFE 4430 Workers Compensation Legislation (3)** An overview of the principles and statutes that govern workers compensation as they apply to the industrial setting. Prerequisite: SAFE 3000.

**SAFE 4435 Environmental Compliance (3)** Comprehensive study of federal and state environmental legislation and standards to protect the health and safety of citizens. Prerequisite: SAFE 3000.

### Loss Control

**SAFE 4510 Loss Control (3)** Provides a background in loss control by investigating professional safety management. Emphasis is placed on incident recall, management's role in loss control, total job observation, total job analysis, and supervisory training. Techniques of implementing a total loss control program are explored. Prerequisite: SAFE 3000.

**SAFE 4520 Safety and Risk Analysis (3)** Identification of safety risks and analytical treatment of those risks in various work settings. Prerequisites: SAFE 3000 or equivalent.

**SAFE 4560 Systems Safety (3)** Techniques and concepts of hazard control within the constraints of operational effectiveness, time, and cost attained through the specific application of management and scientific principles throughout all phases of a system life cycle. Prerequisite: SAFE 3000 or equivalent.

### Security

**SAFE 1700 Introduction to Security (3)** A survey of the role of security in society with emphasis on industrial and government security.

**SAFE 2700 Physical Security Systems (3)** Physical security hardware as applied in business, industry, and government.

**SAFE 3700 Security Organization and Management (3)** Organization and management of security programs in business, industry, and government.

**SAFE 4700 Special Security Problems (3)** An overview of security as applied to contemporary situations in business, industry, and government.

**SAFE 4710 Security Technology (3)** A survey of security detection, including electromechanical and electronic systems. Future applications of technology are discussed. Prerequisite: college level math course.

**SAFE 4720 Personnel and Information Security (3)** Methods used in screening personnel and safeguarding information.

### Fire Science

**SAFE 1800 Introduction to Fire Science (3)** An overview of the principles of fire protection and fire prevention as they apply to the industrial setting. Emphasis on the chemistry of fire, classification of fires, factors contributing to fires, identification of hazardous materials, techniques of fire prevention, and considerations in fire protection.

**SAFE 2800 Fire Prevention and Protection (3)** Provide a background in fire related codes, laws, and ordinances. Emphasis on the implementation of prevention, protection, investigation, and inspection programs. Prerequisite: SAFE 1800.

**SAFE 4800 Water and Sprinkler Systems Analysis (3)** Water supply, how to determine quantity, and basic fire service water requirements. An in-depth study of the design, installation, operations and maintenance of sprinkler systems that use water. Only offered Fall semester. Prerequisite: MATH 1111 or equivalent.

**SAFE 4810 Fire Extinguishing and Alarm Systems (3)** Basic types of extinguishing systems, other than sprinkler systems, and their use. Fire alarm systems, their use, installation and components.

**SAFE 4830 Fire Investigation (3)** Fire investigation techniques with emphasis on fire causation, equipment, evidence, and reporting. Prerequisite: SAFE 1800 or equivalent.

**SAFE 4850 Industrial Fire Protection (3)** The recognition, control or elimination of fire hazards in industrial settings. Prerequisites: CHEM 1104 and MATH 1111, or consent of instructor.

**Individual Study and Research**

**SAFE 4900 Directed Studies (1-6)** Individual or group study of problems in special areas of interest. *May be repeated for a maximum of 6 semester hours.*

**SAFE 4910 Special Projects in Safety Sciences (1-3)** Individual or group study of problems in special areas of interest. *May be repeated for a maximum of 6 semester hours.*

**SAFE 4920 Research Issues in Crisis and Disaster Management\* (3)** Introduces the research process, ethics, methodology, and data analysis. Preparation of academic papers, written reports, and proposals. Prerequisites: SAFE 3300 or consent. \*Not available for graduate credit.

**SAFE 4940 Introductory Quantitative Methods (3)** Mathematical and statistical methods designed for the efficient collection and rational interpretation of data by individuals responsible for analysis in a variety of settings. Prerequisite: high school algebra or equivalent.

**SAFE 4950 Technology Application Studies\* (3)** Individual or group study of emerging technology applications related to crisis and disaster management. *May be repeated for a maximum of 6 hours.* Prerequisite: departmental approval. \*Not available for graduate credit.

**SAFE 4960 Field Exercise Project\* (1-3)** Individual or group participation in approved community, institutional, or agency emergency exercises or disaster drills. *May be repeated for a maximum of 3 hours.* Prerequisite: departmental approval. \*Not available for graduate credit.

**SAFE 4980 Practicum in Crisis and Disaster Management\* (3-6)** Practicum experiences are based upon student preparation and interest. *May be repeated for a maximum of 6 hours.* Prerequisite: departmental approval and junior status. \*Not available for graduate credit.

**SAFE 4990 Internship in Safety Sciences\* (1-6)** Internships are based upon student preparation and interest. Actual work experiences in education, institutions, government, industry, or business are provided. *May be repeated for a maximum of 6 semester hours.* Prerequisite: departmental approval and must have completed one-half of major/minor courses in area of study. \*Not available for graduate credit.

**Integrative Studies Capstone**

**ICAP 4115 Safety and Health Management\* (3)** Integration of safety information using conceptual and technical data to resolve safety and health issues. The case study approach will be emphasized. Prerequisites: admission to program, 27 semester hours of SAFE courses and senior standing. \*Not available for graduate credit.

**Driver Education**

**DRED 2010 Introduction to Safety Education (3)** Provides a background in safety that will give insight to the possible accident situations present in various school situations.

**DRED 2020 Driver Task Analysis (3)** Curriculum content overview for driver and traffic safety education in secondary schools; classroom instruction and laboratory experience; driving skills and abilities of future teachers are evaluated. Prerequisite: DRED 2010.

**DRED 2030 Developing Vehicle Operation Skills and Competencies (3)** A methods and materials course for driver education in the secondary schools. Techniques of teaching beginning drivers in both classroom and laboratory settings. Practicum arranged as a portion of the course. Only offered Summer semester. Prerequisite: DRED 2020.

**DRED 2040 Developing Classroom Knowledge (3)** Operation, maintenance, and techniques of teaching with driving simulators and multiple-car driving ranges. Practicum arranged as a portion of the course. Only offered Summer semester. Prerequisite: DRED 2030.

**Sociology and Social Work**

In the Department of Sociology and Social Work, the second digit in the course number stands for the following: 6-Social Work, 8-Sociology.

**Sociology**

**SOCIOLOGY**

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

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

- Develop an awareness of personal assumptions, as well as basic American assumptions in analyzing positions on social issues.
- Discern the basic components of culture including group diversity, socialization, identity, and cultural symbols.
- Delineate the basic process and consequences of stratification across social categories including ethnicity, race, social class, gender, and societies.
- Recognize how social institutions operate organizationally within society and how they vary over time and space.
- Create reasonable linkages between empirical evidence and theory utilizing both inductive and deductive forms of logic.
- Develop effective ways of communicating in professional contexts.
- Understand basic research procedures in accord with the scholarly practices of the discipline of Sociology including the utilization of research journals and their documentation, construction of a research document to report findings, and the proper citation of sources.
- Critically evaluate the relative strengths and weaknesses of competing theoretical views and everyday frameworks of understanding, recognizing the complexity and uncertainty that are always present.

Sem. Hours

<b>MAJOR REQUIREMENTS</b> . . . . .	<b>33</b>
SOC 1800 General Sociology . . . . .	3
SOC 2805 Introduction to Social Research . . . . .	3
SOC 3800 History of Social Thought . . . . .	3
SOC 3870 Personality & Society . . . . .	3
SOC 3885 Globalization & the Future . . . . .	3
SOC 4860 Contemporary Sociological Thought . . . . .	3
SOC 4890 Social Survey Research . . . . .	3
SOC 4895 Sociology Capstone Seminar . . . . .	3
Electives in sociology . . . . .	9

**MINOR REQUIREMENTS** . . . . . 18-25

**GENERAL EDUCATION REQUIREMENTS** (pages 34-43) In the major, SOC 1800 fulfills 3 s.h. of Div. II B; the Modern Language Requirement fulfills 3 s.h. of Div. II C. . . . . 42

**MODERN LANGUAGE REQUIREMENT** . . . . . 3-9

Refer to Bachelor's Degree Requirements section for fulfillment options.

**FREE ELECTIVES** . . . . . 18-31

**MINIMUM TOTAL** . . . . . 124

**SOCIOLOGY**

Major, Bachelor of Science Degree (43-756)

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

- Develop an awareness of personal assumptions, as well as basic American assumptions in analyzing positions on social issues.
- Discern the basic components of culture including group diversity, socialization, identity, and cultural symbols.
- Delineate the basic process and consequences of stratification across social categories including ethnicity, race, social class, gender, and societies.
- Recognize how social institutions operate organizationally within society and how they vary over time and space.
- Create reasonable linkages between empirical evidence and theory utilizing both inductive and deductive forms of logic.

- Develop effective ways of communicating in professional contexts.
- Understand basic research procedures in accord with the scholarly practices of the discipline of Sociology including the utilization of research journals and their documentation, construction of a research document to report findings, and the proper citation of sources.
- Critically evaluate the relative strengths and weaknesses of competing theoretical views and everyday frameworks of understanding, recognizing the complexity and uncertainty that are always present.

Sem. Hours

**MAJOR REQUIREMENTS . . . . . 42**

SOC 1800	General Sociology . . . . .	3
SOC 2805	Introduction to Social Research . . . . .	3
SOC 3800	History of Social Thought . . . . .	3
SOC 3870	Personality & Society . . . . .	3
SOC 3885	Globalization & the Future . . . . .	3
SOC 4860	Contemporary Sociological Thought . . . . .	3
SOC 4890	Social Survey Research . . . . .	3
SOC 4895	Sociology Capstone Seminar . . . . .	3
	Electives in sociology . . . . .	18

**MINOR REQUIREMENTS . . . . . 18-25**

**GENERAL EDUCATION REQUIREMENTS** (pages 34-43) In the major, SOC 1800 fulfills 3 s.h. of Div. II B . . . . . 45

**FREE ELECTIVES . . . . . 12-19**

**MINIMUM TOTAL . . . . . 124**

**SOCIOLOGY**

**Minor for a Bachelor’s Degree**

UCM does not confer teacher certification for this minor (757)

Sem. Hours

**MINOR REQUIREMENTS . . . . . 21**

SOC 1800	General Sociology . . . . .	3
SOC 3800	Hist. of Soc. Thought . . . . .	3
SOC 3870	Personality & Society . . . . .	3
SOC 3885	Globalization & the Future . . . . .	3
	Electives in sociology . . . . .	9

**GENERAL EDUCATION REQUIREMENTS** (pages 34-43) In the minor, SOC 1800 fulfills 3 s.h. of Div. IIB

- SOC 1800 General Sociology (3)** Explores the relationships of individuals, groups, and society in the context of changing social institutions. Addresses basic concepts and subfields in sociology.
- SOC 1830 Social Problems (3)** The sociology of social problems; background and analysis of selected social problems such as race, crime, population, civil rights, poverty; social changes in light of social controls and democratic values.
- SOC 2805 Introduction to Social Research (3)** An overview of the concepts and practice of research including measurement, sampling, design, basic descriptive statistics and ethics. Attention to both qualitative and quantitative approaches.
- SOC 2825 Marriage and Family Relations (3)** Theory and research on husband and wife and parent-child relations are examined. Other topics include dating, cohabitation, and blended families. Prerequisite: SOC 1800.
- SOC 2830 Demography (3)** Examine patterns of population change over time and across cultures. Students will engage in applied demographic coursework.
- SOC 3800 History of Social Thought (3)** Development of social origins of sociology; analysis and evaluation of social thought patterns as they relate to contemporary social problems. Prerequisite: 3 semester hours of sociology or consent of instructor.
- SOC 3810 Culture and Society (3)** Examines culture including art, popular culture, folk/ethnic culture, consumer culture, and post-modern culture. Emphasis on meaning and power. Prerequisites: 3 semester hours of sociology or consent of instructor.

- SOC 3825 Race and Ethnic Relations (3)** The study of principles, processes and consequences of interracial and ethnic group relations. Emphasis on the social construction of ethnicity, ethnic stratification, and ethnic movements. Prerequisite: 3 semester hours of sociology or consent of instructor.
- SOC 3845 Social Inequality (3)** A theoretical and methodological examination of the relationships between social class, inequality, and mobility. Prerequisite: 3 semester hours of sociology or consent from instructor.
- SOC 3870 Personality and Society (3)** Emphasizes theories of micro-sociological principles. Focuses on interpersonal relationships and how issues such as socialization and identity impact human behavior and views of the self. Prerequisite: 3 semester hours of sociology or consent from instructor.
- SOC 3885 Globalization and the Future (3)** This course explores the impact of the globalization phenomenon upon the future development of the world's economic, political and sociocultural aspects. Prerequisite: three semester hours of sociology or consent of instructor.
- SOC 3890 Criminology (3)** The nature and characteristics of crime and criminals; the historical perspectives of criminology; theoretical analysis of criminal behavior. Prerequisite: 3 semester hours of sociology or consent from instructor.
- SOC 4810 Urban Sociology (3)** Urbanization, rise and growth of cities; attention to demography, ecology and changes in urban society; social problems such as land utilization, housing, slums, politics, crime, and living standards. Prerequisite: 6 semester hours of sociology, graduate standing or consent of instructor.
- SOC 4815 Special Projects in Sociology (1-6)** Study, interpretation, and discussion of special topics and problems in sociology. *May be repeated for a maximum of 6 semester hours.*
- SOC 4820 Collective Behavior (3)** An application of social-psychological principles to various forms of collective phenomena, including cults, civil disturbances, and social movements. Prerequisite: 6 semester hours of sociology, graduate standing, or consent of instructor.
- SOC 4825 Sociology of Education (3)** Education as a social institution; its relationship to other institutions and the community. Prerequisite: 6 semester hours of sociology, graduate standing, or consent of instructor.
- SOC 4830 Media, Culture, and Society (3)** The purpose of this course is to provide students with a critical political economy framework for understanding the effects of mass media on society. Prerequisite: 6 semester hours of sociology, graduate standing, or consent of instructor.
- SOC 4840 Sociology of Sport (3)** An investigation and analysis of the relationships between sport and society. Focus will be upon the development and changing nature of sport as an institution in modern society.
- SOC 4845 Juvenile Delinquency (3)** The nature, extent, and causes of juvenile delinquency; types of juvenile offenders and their career patterns; institutional controls and treatment programs. Prerequisite: 6 semester hours of sociology, graduate standing, or consent of instructor.
- SOC 4846 Corrections and Preventions (3)** Views and methods of dealing with criminals and juvenile delinquents; types of correctional systems and prevention programs. Prerequisite: 6 semester hours of sociology, graduate standing, or consent of instructor.
- SOC 4850 Work and the Modern Society (3)** Critical inquiry into the workings of modern society and its cultures and subcultures, ideologies, institutions, elites, classes, and the processes of power relations. Prerequisite: 6 semester hours of sociology, graduate standing, or consent of instructor.
- SOC 4855 Sociology of Gender (3)** Explores impact of gender stratification and roles on the attitudes and behavior of women and men, gender and social institutions, theories of gender, and sexuality. Prerequisite: 6 semester hours of sociology, graduate standing, or consent of instructor.

**SOC 4860 Contemporary Sociological Thought (3)** Assessment of current sociological thought as it is reflected by outstanding scholars in the field. Prerequisite: SOC 3800 and 3 additional semester hours of sociology, graduate standing, or consent of instructor.

**SOC 4865 Family Diversity (3)** Focus on the institutional implications of the family. Diversity in ethnicity, sexuality, and class are emphasized. Intersection of work and family is explored. Prerequisite: 6 semester hours of sociology, graduate standing, or consent of instructor.

**SOC 4872 Sociology of Organizations (3)** A systematic study of the structural and interactional processes of work related organizations. Prerequisite: 6 semester hours of sociology, graduate standing, or consent of instructor.

**SOC 4875 Medical Sociology (3)** Social factors and institutional settings for physical and mental health care; public needs and medical services; research in medical sociology. Prerequisite: 6 semester hours of sociology, graduate standing, or consent of instructor.

**SOC 4880 Sociology of Law (3)** The development of legal institutions; law as a system of social control; law and social change. Prerequisite: 6 semester hours of sociology, graduate standing, or consent of instructor.

**SOC 4885 Religion and Society (3)** The structure and function of religion in society; social sources of religions; religion and the individual. Prerequisite: 6 semester hours of sociology, graduate standing, or consent of instructor.

**SOC 4890 Social Survey Research (3)** Major concepts in social survey research design, measurement, sampling, and data collection techniques. Quantitative analysis of survey data and micro-computer applications. Prerequisite: SOC 2805, graduate standing, or consent of instructor.

**SOC 4894 Sociology of Aging (3)** The aging process and its consequences for the individual and society; an examination of the problem of aging in terms of demographic, economic, psychological and sociologic implications; and emphasis on sociological principles and perspectives. Prerequisite: 6 semester hours of sociology, graduate standing, or consent of instructor.

**SOC 4895 Sociology Capstone Seminar\* (3)** Focus on the history and trajectory of sociology as a discipline, demonstrate professional ethics, and develop a career plan in the discipline. Prerequisite: Sociology major and senior standing or consent of department chair.

\*Not available for graduate credit.

## Social Work

### Social Work Statement of Policy

#### Admission Policy

Students entering UCM as freshmen should indicate a social work major. Transfer students must meet all requirements. Admission to the social work program is conditional upon the successful completion of all necessary requirements.

#### Requirements for Admission to the Social Work Program

1. Completion of General Education courses listed as requirements of the social work functional major.
2. Cumulative grade-point average of 2.00.
3. A minimum grade of C for courses listed as curriculum requirements of the social work functional major.
4. Completion of SOWK 2600, SOWK 2611, SOWK 3600, and SOWK 3612. (PSY 1100, SOC 1800, and BIOL 2010)
5. Students must complete a social work prefix course in residence prior to applying for admission into the social work program.
6. Submission of:
  - a. Application for Admission to social work program.
  - b. Transcript of all university work.
  - c. A minimum of three references.
  - d. Autobiographical statement.
 The necessary Application for Admission Forms and Reference Forms will be available in the department office or from the Social Work Faculty Adviser.
7. Successful completion of an interview with Social Work Admissions Committee.
8. Provisional admission to the program requires the student to successfully complete a plan of corrective action and a subsequent interview with the Admissions Committee.

#### Criteria for Retention

Social Work students will be permitted to continue in the Social Work major by meeting certain "Criteria for Retention" as established by the program.

1. An earned grade of C or above in all courses listed as requirements of the social work functional major.
2. Students failing to earn a grade of C or above in either SOWK 4660 Field Practicum or ICAP 4478 Integrative Social Work Practicum Seminar are not permitted to repeat these courses.
3. Adherence to the National Association of Social Workers' Code of Ethics.
4. Maintenance of social functioning that allows for effective beginning level professional social work practice. (Social functioning refers to the students' ability to cope with the demands generated by their interaction with their environment including areas such as school, work, family, and personal relationships.)
5. Demonstration of effective verbal and written communication skills.
6. Continued enrollment as a student in good standing at UCM.

#### Accreditation

The principal educational objective of the Bachelor of Social Work program is to prepare students for generalist social work practice. The Bachelor of Social Work program is accredited by the Council on Social Work Education, a specialized accrediting body recognized by the Council for Higher Education Accreditation (CHEA). The Council on Social Work Education (CSWE) is located at 1725 Duke Street, Suite 500, Alexandria, VA 22314-3457; phone 703-683-8080; email info@cswe.org.

**SOCIAL WORK**

**Functional Major, Bachelor of Social Work Degree (48-847)**

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

- Apply critical thinking skills within the context of professional social work practice.
- Practice within the values and ethics of the social work profession.
- Practice without discrimination and with respect, knowledge, and skills related to clients' age, class, color, culture, disability, ethnicity, family structure, gender, marital status, national origin, race, religion, sex, and sexual orientation.
- Demonstrate awareness of the impact of self on others through personal reflection and self-discipline.
- Understand the forms and mechanisms of oppression and discrimination and apply strategies of advocacy and social change that advance social and economic justice.
- Understand and interpret the history of the social work profession and its contemporary structures and issues.
- Apply the knowledge and skills of generalist social work practice with systems of all sizes.
- Apply knowledge of bio-psycho-social factors that affect individual development and behavior, and use empirically tested theoretical frameworks to understand the interactions among individuals and between individuals and social systems.
- Analyze, formulate, and influence social policies.
- Evaluate research studies and apply findings to practice, and under supervision, to evaluate his/her own practice interventions and those of other relevant systems.
- Use oral and written communication skills differentially and effectively with a variety of client populations, colleagues, and members of the community.
- Use supervision and consultation appropriate to generalist practice.
- Critically evaluate one's professional practice and develop an agenda for continuing professional learning and growth.

Sem. Hours

<b>FUNCTIONAL MAJOR REQUIREMENTS</b>		<b>65</b>
SOWK 2600	Intro. to Soc. Welfare & Social Work	3
SOWK 2611	Social Work Field Observation & Participation	2
SOWK 3600	Intro. to Social Work Practice	3
SOWK 3605	Methods of Inquiry & Evaluation for Social Workers	3
SOWK 3610	Social Work Practice: Basic Skills	3
SOWK 3612	Human Behavior in the Social Environment I	3
SOWK 3625	Populations at Risk	3
SOWK 4610	Special Topics in Social Work 3, or	
SOWK 4620	Social Services and the Elderly, 3	3
SOWK 4612	Human Behavior in the Social Environment II	3
SOWK 4630	Social Work Practice: Intervention with Families & Groups	3
SOWK 4640	Social Work Practice: Intervention with Communities & Org.	3
SOWK 4650	Social Policy & Economic Justice	3
SOWK 4660	Field Practicum	9
SOC 1800	General Sociology	3
SOC 2805	Introduction to Social Research	3
SOC 3825	Race & Ethnic Relations	3
PSY 1100	General Psychology	3
PSY 4440	Abnormal Psychology	3
BIOL 2010	Human Biology	3
ICAP 4478	Integrative Social Work Practicum Seminar	3

**MINOR NOT REQUIRED**

**GENERAL EDUCATION REQUIREMENTS** (pages 34-43) In the functional major, SOC 1800 and PSY 1100 fulfill 6 s.h. of Div. II B; ICAP 4478 fulfills 3 s.h. of Div. IV B

<b>FREE ELECTIVES</b>	<b>20</b>
<b>MINIMUM TOTAL</b>	<b>124</b>

**SOWK 2600 Introduction to Social Welfare and Social Work (3)** An overview of income maintenance and services to families, children, adolescents, aged and the mentally and physically challenged. Open to non majors.

**SOWK 2611 Social Work Field Observation and Participation (2)** Observation and participation in the fields of social work practice, under the direction of faculty and agency supervision. For social work majors only. Prerequisites: SOWK 2600.

**SOWK 3600 Introduction to Social Work Practice (3)** Presents a generalist framework for practice with individuals, families, groups, organizations, and communities. Open to social work majors only. Prerequisite: SOWK 2600.

**SOWK 3605 Methods of Inquiry and Evaluation for Social Workers (3)** Advanced research methods course for undergraduate social work majors, including quantitative and qualitative methods and data analysis and case/program-level evaluation. Open to social work majors only. Prerequisite: SOC 2805.

**SOWK 3610 Social Work Practice: Basic Skills (3)** Development of interpersonal skills and interviewing techniques for micro, mezzo, and macro levels of generalist practice. Open to social work majors only. Prerequisite: SOWK 3600.

**SOWK 3612 Human Behavior in the Social Environment I (3)** Examines human development and behavior across the life span, studying essential biophysical, psychological and social dimensions, emphasizing the fundamental reciprocity between persons and society/culture. Prerequisites: BIOL 2010 or concurrently, SOWK 3600 or concurrently, PSY 1100 and SOC 1800.

**SOWK 3625 Populations at Risk (3)** Prepares the generalist social worker with skills for sensitive practice with oppressed peoples and other vulnerable populations. Open to social work majors only. Prerequisite: SOC 3825.

**SOWK 4610 Special Topics in Social Work (3)** Selected Topics of contemporary interest in social work or specialized fields of practice; variable content. *May be repeated for a maximum of 9 semester hours.* Prerequisite: SOWK 3600 or concurrently or graduate standing or consent of instructor.

**SOWK 4612 Human Behavior in the Social Environment II\* (3)** Utilizes a social systems approach to examine the processes of human behavior within groups, organizations, communities and societies/cultures. Prerequisite: SOWK 3612. \*Not available for graduate credit.

**SOWK 4620 Social Services and the Elderly (3)** Development of public policy and social service programming. Present and potential utility of individual, group and community intervention modalities as they relate to both the private troubles and public issues of aging. Prerequisite: SOWK 3600 or concurrently or graduate standing or consent of instructor.

**SOWK 4630 Social Work Practice: Intervention with Families and Groups\* (3)** Integrates knowledge, theory, values and interviewing skills for practice of primary intervention skills with individuals, families and groups. Open to social work majors only. Prerequisite: SOWK 3610. \*Not available for graduate credit.

**SOWK 4640 Social Work Practice: Intervention with Communities and Organizations\* (3)** In-depth application of the generalist model of social work practice with an emphasis on macro-level skills. Open to social work majors only. Prerequisite: SOWK 3610. \*Not available for graduate credit.

**SOWK 4650 Social Policy and Economic Justice\* (3)** Develops an operational and critical understanding of the relationships among social welfare policy, social and economic justice issues, and social work practice. Open to social work majors only. Prerequisites: SOWK 2600 and consent of instructor. \*Not available for graduate credit.

**SOWK 4660 Field Practicum\* (9)** Educationally directed 500-hour field experience in a social service agency under qualified agency supervision. Open to social work majors only. Corequisite: ICAP 4478. Prerequisites: all other required major courses must be completed and consent of Coordinator of Field Education. \*Not available for graduate credit.



**Integrative Studies Capstone****ICAP 4478 Integrative Social Work Practicum Seminar\* (3)**

Integration of classroom knowledge with 500 hours in social service agency practicum. Open to social work majors only. Corequisite: SOWK 4660. Prerequisites: all other required major courses must be completed and consent of the Coordinator of Field Education. \*Not available for graduate credit.

# College of Science and Technology

## College of Science and Technology Pre-Professional Programs

Students interested in the premedical, pre-osteopathy, and pre-veterinary medicine program should plan to attend the University for four years and graduate with a Bachelor of Science degree. The student should major in biology and minor in chemistry or major in chemistry and minor in biology. Additional electives are required depending upon the student's needs and interest area.

Students interested in pre-dental, pre-optometry, and pre-physical therapy should plan to attend the University two or more years to meet the minimum requirements in biology, chemistry, mathematics, and physics required by the professional school. Additional electives are required depending upon the student's needs and interest area.

Students interested in the pre-pharmacy program should consult the Chair of the Chemistry and Physics Department for suggested curriculum.

## Agriculture

In the Department of Agriculture, the second digit in the course number stands for the following: 0-General, 1-Agricultural Business and Economics, 2-Agricultural Mechanization, 3-Agronomy, 4-5-Animal Science, 6-Horticulture, 8-9-Professional and Agriculture Education.

### AGRICULTURAL TECHNOLOGY

Functional Major, Bachelor of Science Degree  
(43-209)

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

- Use language and concepts of agriculture effectively in written and oral communications
- Demonstrate computer literacy
- Demonstrate an understanding of theories and principles of economics and agri-business appropriate to the agricultural firm
- Demonstrate an understanding of the basic practices and theory of agricultural production (agricultural literacy)
- Provide evidence of an international-global perspective of agriculture
- Demonstrate appropriate and effective social interactions
- Demonstrate ability to analyze situations and solve problems in an agricultural context

Sem. Hours

#### FUNCTIONAL MAJOR REQUIREMENTS . . . . . 76

AGRI 2010	Computer Applications for Agriculturists . . .	3
AGRI 1100	Introduction to Agriculture . . . . .	1
AGRI 3140	Agriculture Analysis & Statistics . . . . .	3
AGRI 1200	Agriculture Mechanics . . . . .	3
AGRI 1300	Introductory Plant Science . . . . .	1
AGRI 2330	Introduction to Soil Science . . . . .	3
AGRI 4300	Soil Fertility & Fertilizers . . . . .	3
AGRI 1420	Animal Husbandry . . . . .	3
AGRI 2425	Livestock Evaluation . . . . .	3
AGRI 3610	Agriculture Pest Management . . . . .	3
AGRI 3810	Internship in Agriculture . . . . .	3
AGRI 4820	Agriculture Safety . . . . .	3
ECON 1011	Principles of Microeconomics . . . . .	3
AGRI 1310	Agronomy I: Row Crops, 2 or	
AGRI 2315	Agronomy II: Forages, 2 . . . . .	2
AGRI 3110	Agri-Business Management, 3 or	
AGRI 3120	Dist. & Mktg. Agri. Products, 3 . . . . .	3
AGRI 1600	Introductory Horticulture Science, 3 or	
AGRI 1610	Establishment & Care of Greenhouse Plants, 3 . . . . .	3

Departmentally approved electives from

one of the following areas . . . . . 33

- Area 1 Animal Technology
- Area 2 Agronomic Technology
- Area 3 Horticultural Technology
- Area 4 Agricultural Mechanization

List of electives available from Chair, Department of Agriculture.

#### MINOR NOT REQUIRED

#### GENERAL EDUCATION REQUIREMENTS (pages 34-43) . . . . . 48

COMM 1000	Div. I B (required) . . . . .	3
MATH 1111	Div. I C (required) . . . . .	3
CHEM 1104	Div. II A (required) . . . . .	4
SPAN any	Div. II C (required) . . . . .	3
AGRI 2130	Div. II D (required) . . . . .	3
ICAP 4101	Div. IV B (required) . . . . .	3

#### MINIMUM TOTAL . . . . . 124

### AGRICULTURE

Minor for a Bachelor's Degree

UCM does not confer teacher certification for this minor  
(110)

Sem. Hours

#### MINOR REQUIREMENTS . . . . . 25

AGRI 3120	Dist. & Mkt. Agri. Products . . . . .	3
AGRI 1300	Introductory Plant Science . . . . .	1
AGRI 1310	Agronomy I: Row Crops . . . . .	2
AGRI 2330	Introduction to Soil Science . . . . .	3
AGRI 1420	Animal Husbandry . . . . .	3
CHEM 1104	Intro. to the Sciences: Chemistry . . . . .	4
ECON 1011	Principles of Microeconomics . . . . .	3
AGRI 1200	Agriculture Mechanics, 3 or	
AGRI 3200	Farm Power & Machinery, 3 . . . . .	3
AGRI 1600	Introductory Horticulture Science, 3 or	
AGRI 1610	Establishment & Care of Greenhouse Plants, 3 . . . . .	3

#### GENERAL EDUCATION REQUIREMENTS (pages 34-43)

In the minor, CHEM 1104 fulfills 4 s.h. of Div. II A.

### AGRICULTURE-BUSINESS

Functional Major, Bachelor of Science Degree  
(43-111)

The graduate with a Bachelor of Science degree in Agriculture-Business will use the knowledge and skills obtained in the program to:

- Use language and concepts of agricultural business effectively in written and oral communications.
- Demonstrate computer literacy.
- Demonstrate an understanding of theories and principles of economics and agri-business appropriate to the agri-business firm.
- Demonstrate an understanding of the basic practices and theory of agricultural production (agricultural literacy.)
- Provide evidence of an international-global perspective of agriculture.
- Demonstrate appropriate and effective social interactions.
- Demonstrate ability to analyze situations and solve problems in an agri-business context.
- Demonstrate a knowledge of how national and international policies impacting agriculture are developed.

Sem. Hours

#### FUNCTIONAL MAJOR REQUIREMENTS . . . . . 73

AGRI 2010	Computer Applications for Agriculturists . . .	3
AGRI 1100	Introduction to Agriculture . . . . .	1
AGRI 3110	Agri-Business Management . . . . .	3
AGRI 3120	Dist. & Mktg. Agri. Products . . . . .	3
AGRI 3140	Agriculture Analysis & Statistics . . . . .	3

AGRI 4110	Agricultural Futures Trading	3
AGRI 4120	International Agriculture	3
AGRI 4140	Agricultural Policy	3
AGRI 4150	Natural Resource Economics	3
AGRI 1300	Introductory Plant Science	1
AGRI 2330	Introduction to Soil Science	3
AGRI 2331	Soils	3
AGRI 1420	Animal Husbandry	3
AGRI 2425	Livestock Evaluation	3
AGRI 3420	Animal Nutrition	3
AGRI 1600	Introductory Horticulture Science	3
AGRI 4820	Agricultural Safety	3
ECON 1011	Principles of Microeconomics	3
ECON 3030	Intermediate Microeconomics	3
FIN 1820	Personal Finance	3
MKT 3430	Personal Selling	3
BLAW 2720	Legal Environment of Business	3
AGRI 1200	Agriculture Mechanics, 3 or	3
AGRI 3200	Farm Power & Machinery, 3	3
AGRI 1310	Agronomy I: Row Crops, 2 or	3
AGRI 2315	Agronomy II: Forages, 2.	2
AGRI 4340	Agri. Sprays & Chemicals, 3 or	3
AGRI 3610	Agriculture Pest Management, 3	3
ACCT 2100	Survey of Accounting, 3 or	3
ACCT 2101	Principles of Financial Acct. 3,	3
<b>MINOR NOT REQUIRED</b>		
<b>GENERAL EDUCATION REQUIREMENTS (pages 34-43) . . . . . 48</b>		
COMM 1000	Div. I B (required)	3
MATH 1111	Div. I C (required)	3
CHEM 1104	Div. II A (required)	4
ECON 1010	Div. II B (required)	3
SPAN any	Div. II C (required)	3
AGRI 2130	Div. II D (required)	3
ICAP 4101	Div. IV B (required)	3
<b>FREE ELECTIVES</b>		<b>3</b>
<b>MINIMUM TOTAL</b>		<b>124</b>

**VOCATIONAL AGRICULTURE EDUCATION**

**Functional Major, Bachelor of Science in Ed. Degree**

Certification to teach vocational agriculture education in grades 9-12 (41-112)

The graduate with a Bachelor of Science in Education degree in Vocational Agriculture Education will use the knowledge and skills obtained in the program to:

- Understand the components of a complete secondary agriculture program including the essentials of a successful FFA chapter and an adult agricultural education program.
- Formulate strategies and tools to use in planning a local agricultural education program to address local, state, national, and international needs.
- Apply the Missouri State Standards and Quality Indicators for agriculture program improvement.
- Distinguish methods of developing successful partnerships using community resources and successfully marketing an agricultural education program.
- Demonstrate computer literacy.
- Provide evidence of an international-global perspective of agriculture.
- Use language and concepts of agriculture effectively in written and oral communications.
- Demonstrate ability to analyze situations and solve problems in an agricultural context.
- Demonstrate an understanding of the basic practices and theory of agricultural production (agricultural literacy).
- Demonstrate appropriate and effective social interactions.

Sem. Hours

<b>FUNCTIONAL MAJOR REQUIREMENTS</b>	<b>53</b>
AGRI 2010	Computer Applications for Agriculturists . . 3

AGRI 1100	Introduction to Agriculture	1
AGRI 3110	Agri-Business Management	3
AGRI 3120	Dist. & Mktg. Agri. Products	3
AGRI 1200	Agriculture Mechanics	3
AGRI 3200	Farm Power & Machinery	3
AGRI 1300	Introductory Plant Science	1
AGRI 1310	Agronomy I: Row Crops	2
AGRI 2315	Agronomy II: Forages	2
AGRI 2330	Introduction to Soil Science	3
AGRI 1420	Animal Husbandry	3
AGRI 3420	Animal Nutrition	3
AGRI 1600	Introductory Horticulture Science	3
AGRI 4820	Agricultural Safety	3
AGRI 4900	Planning & Conducting Programs in Agricultural Education	3
AGRI 4910	Agri. Occupations Exper. Prog.	2
AGRI 4920	Agri. Mechanics in Agri. Ed.	2
ECON 1011	Principles of Microeconomics	3
BIOL 1004	Intro. to the Sciences: Ecology	4
AGRI 4430	Animal Science: Beef, 3 or	3
AGRI 4435	Animal Science: Pork, 3	3

**MINOR NOT REQUIRED**

**GENERAL EDUCATION REQUIREMENTS (pages 34-43)**

**In the functional major, BIOL 1004 fulfills 3 s.h. of Div. II A . . . . 45**

MATH 1111	Div. I C (required)	3
CHEM 1104	Div. II A (required)	4
HIST 1350	Div. II B or	
HIST 1351	Div. II B (required)	3
POLS 1510	Div. II B (required)	3
AGRI 2130	Div. II E (required)	3
PSY 4230	Psy. of Adolescence	3
ICAP 4101	Div. IV B (required)	3

Secondary Education students will be allowed to substitute PSY 4230 to fulfill 3 s.h. in Div. II B.

**PROFESSIONAL EDUCATION REQUIREMENTS (page 115) . . . . . 28**

AGRI 4930	Methods of Teaching Voc. Agri.	3
AGRI 4940	Secondary Field Exp. II	2

**MINIMUM TOTAL . . . . . 126**

**General**

**AGRI 1000 Exploratory Problems in Agriculture (1-3)** Individual or group work on introductory level technical problems in agriculture. Provide exploration of content not available through normal course offerings. Prerequisite: Departmental consent.

**AGRI 2010 Computer Applications for Agriculturalists (3)** Understanding and using computers to define, analyze, and solve agricultural problems. Topics include descriptive statistics, farm budgets, decision models, information retrieval and agri-marketing techniques. Only offered Fall semester.

**AGRI 4000 Special Projects in Agriculture (1-6)** Investigation of contemporary problems and issues in agriculture by selected individuals or groups. An additional fee is associated with some sections of this course. *May be repeated for a maximum of 9 semester hours.*

**Agricultural Business and Economics**

**AGRI 1100 Introduction to Agriculture (1)** Orientation to the philosophy, development and current trends in the professional preparation for careers in agriculture. Must be taken during the first year of the agriculture program. Only offered Fall semester.

**AGRI 2110 Agricultural Records (3)** Fundamental principles and practices of record buyers as applied to the organization and operation of agricultural enterprises. Only offered Fall semester.

**AGRI 2120 Agricultural Cooperatives (1)** Environment, organization and business function of modern agricultural cooperatives. Prerequisite: ECON 1011.

**AGRI 2130 Global Agriculture (3)** Interaction of culture and farming/food systems worldwide emphasizing the interaction of cultures with agricultural production/food systems and the influence this has on social, economic, governmental, and environmental factors.

**AGRI 3110 Agri-Business Management (3)** Management functions and economics of agricultural organizations and operations, including input-output analysis, efficient allocations of resources, enterprise combinations, and budgeting analysis. Only offered Fall semester. Prerequisites: ECON 1011; AGRI 2010 or concurrently; MATH 1111 or concurrently.

**AGRI 3120 Distribution and Marketing Agriculture Products (3)** Principles governing the distribution, prices, and marketing of agriculture products. Only offered Fall semester. Prerequisite: ECON 1011.

**AGRI 3140 Agricultural Analysis and Statistics (3)** Statistical analysis and experimental designs as applied to agriculture. Only offered Fall semester. Prerequisite: MATH 1111 and AGRI 2010.

**AGRI 4110 Agricultural Futures Trading (3)** Examination of techniques used in pricing products in the agricultural commodities futures market. Emphasis on futures trading as a marketing tool with some consideration of alternative speculating techniques. Only offered Spring semester. Prerequisites: AGRI 2010 and AGRI 3120.

**AGRI 4120 International Agriculture (3)** Economic, cultural, governmental and environmental factors which influence agricultural production and trade among countries. Only offered Spring semester. Prerequisites: AGRI 2130 and AGRI 3120.

**AGRI 4140 Agricultural Policy (3)** History, principles, settings, objectives, and methods of policy development as applied to agriculture in our society. Only offered Spring semester. Prerequisites: AGRI 3110 and AGRI 3120.

**AGRI 4150 Natural Resource Economics (3)** Nature of natural resources; economic efficiency as basis for natural resource use; externalities in natural resource use; factors influencing environmental quality; alternate public policy tools for influencing natural resource use. Only offered Spring semester. Prerequisite: ECON 1010 and ECON 1011.

### Agricultural Mechanization

**AGRI 1200 Agriculture Mechanics (3)** Selection and use of hand and power tools for the farm shop. Basic processes and procedures in hot metal work and elements of woodworking used in the repair and maintenance of the farm. An additional fee is associated with this course.

**AGRI 3200 Farm Power and Machinery (3)** Mechanical work on the farm, including selection, cost, and care of farm machinery. Includes laboratory practices on tractors, gas engines, plows, mowers, and other farm machinery. Only offered Spring semester.

**AGRI 3210 Soil and Water Management (3)** Soil and water conservation. Use of farm level, laying out and establishing terraces, water ways, diversion channels, and farm ponds. Prerequisite: AGRI 2330.

**AGRI 4200 Advanced Agriculture Mechanics (3)** Application of shop principles to the design and construction of farm mechanical projects. Prerequisite: AGRI 1200.

### Agronomy

**AGRI 1300 Introductory Plant Science (1)** Emphasis on the structure/function relationships of anatomy, morphology, and physiology of horticultural and agronomic crops.

**AGRI 1310 Agronomy I: Row Crops (2)** Principles and practices in cereal crop production. Prerequisite: AGRI 1300.

**AGRI 2315 Agronomy II: Forages (2)** Principles and practices of forage crop production. Prerequisite: AGRI 1300

**AGRI 2330 Introduction to Soil Science (3)** Chemical and physical properties of soils. Prerequisite: CHEM 1104. An additional fee is associated with this course. Only offered Fall semester.

**AGRI 2331 Soils (3)** Emphasis on soil formation, classification, and fertility. Only offered Spring semester. Prerequisite: AGRI 2330.

**AGRI 3320 Field Crop Management (3)** Management of crops, crop rotation, and crop utilization. Prerequisites: AGRI 1310 or AGRI 2315, and AGRI 2330.

**AGRI 4300 Soil Fertility and Fertilizers (3)** Theory and practice of utilizing agricultural fertilizers to maximize soil productivity. Only offered Spring semester. Prerequisite: AGRI 2330.

**AGRI 4310 Plant Improvement (3)** The principles and practices involved in the selection and breeding of farm crops. Only offered Fall semester. Prerequisites: AGRI 1600; AGRI 1310 or AGRI 2315. An additional fee is associated with this course.

**AGRI 4320 Agricultural Plant Diseases (3)** Agricultural plant diseases with emphasis on recognition and control. Only offered Fall semester. Prerequisites: AGRI 1600; AGRI 1310 or AGRI 2315.

**AGRI 4330 Soils Management (3)** Principles of soils management as applied to physical improvement and fertility maintenance of soils. Prerequisite: AGRI 2330.

**AGRI 4340 Agricultural Sprays and Chemicals (3)** Types of agricultural chemicals and their application in control of insects, parasites, and weeds. Only offered Fall semester. Prerequisite: AGRI 2330; AGRI 1310 or AGRI 2315.

### Animal Science

**AGRI 1420 Animal Husbandry (3)** A comprehensive view of the industry and the science of biology as utilized in modern livestock management.

**AGRI 2425 Livestock Evaluation (3)** An advanced study of livestock evaluation with emphasis in selection of breeding and market animals. The evaluation of beef cattle, dairy cattle, and swine will be emphasized. Only offered Spring semester. Prerequisite: AGRI 1420.

**AGRI 3410 Animal Breeding (3)** Selecting and improving livestock through genetic principles, breeding systems, and visual evaluation. Only offered Fall semester. Prerequisite: AGRI 1420 and AGRI 2425..

**AGRI 3415 Meat Science (3)** Principles of meat processing, inspection, grading, sanitation, preservation and storage with an overview of muscle composition, structure, function, and nutritive value. Only offered Spring semester.

**AGRI 3420 Animal Nutrition (3)** Basic principles of animal nutrition – study of the digestive tract anatomy, basic nutrients, factors affecting nutrient utilization, and feed formulation, including classification and composition of feedstuffs. Only offered Fall semester. Prerequisite: AGRI 1420.

**AGRI 4410 General Veterinary Science (3)** Anatomy, physiology, disease control, parasitic control, and sanitation of farm animals. Only offered Spring semester. Prerequisites: AGRI 1420 and CHEM 1104.

**AGRI 4415 Reproduction of Farm Animals (3)** Reproductive physiology of farm animals with practice in evaluation of semen, artificial insemination, and methods of pregnancy diagnosis. Only offered Fall semester. Prerequisites: AGRI 1420 and AGRI 3410.

**AGRI 4430 Animal Science: Beef (3)** Systems of beef production. Includes breeding, feeding, and management of commercial and purebred beef. Only offered Spring semester. Prerequisites: AGRI 1420.

**AGRI 4435 Animal Science: Pork (3)** Systems of pork production. Includes breeding, feeding, and management of commercial and purebred swine. Only offered Spring semester. Prerequisites: AGRI 1420.

### Horticulture

**AGRI 1600 Introductory Horticulture Science (3)** Coverage includes commercial and home production and maintenance of vegetables, fruits, ornamentals, herbs/spices, pharmaceuticals, turfgrass, greenhouses, nurseries, landscape design, and other areas within the field. An additional fee is associated with this course. Prerequisite: AGRI 1300.

**AGRI 1610 Establishment and Care of Greenhouse Plants (3)** Identifying, establishing, maintaining, harvesting and displaying greenhouse plants. An additional fee is associated with this course.

**AGRI 3610 Agriculture Pest Management (3)** Insect control with emphasis on recognition of destructive forms, general principles of insect habits and classification. Only offered Fall semester. An additional fee is associated with this course.

**AGRI 3620 Residential Landscape Design (3)** Theory and practice of landscaping the home, farmstead, and small properties, including elementary design, soil preparation, selection of plant material, and cultural practices. Only offered Spring semester. An additional fee is associated with this course.

**AGRI 3640 Horticultural Propagation Materials (3)** Includes materials, types of plants, structure of plants, and methods used in propagation. Only offered Spring semester. An additional fee is associated with this course. Prerequisite: AGRI 1600.

**AGRI 4600 Horticultural Plants I: Woody (3)** Identification, description, climatic adaptation, classification, characteristics and best landscape use of woody horticultural trees and shrubs. Only offered Fall semester. An additional fee is associated with this course.

**AGRI 4605 Horticultural Plants II: Herbaceous (3)** Identification, description, adaptation, classification, cultural characteristics and best use of herbaceous horticultural plants. Prerequisites: AGRI 1300, AGRI 1600 and AGRI 1610. An additional fee is associated with this course.

**AGRI 4610 Turfgrass Science (3)** Selection, identification, establishment and maintenance of turfgrasses. Prerequisites: AGRI 1600 and AGRI 2330. An additional fee is associated with this course.

**Professional and Agriculture Education**

**AGRI 3810 Internship in Agriculture (1-3)** Provides experiences for students in cooperating agricultural businesses, agencies and other organizations. May be repeated for a maximum of 9 semester hours. Prerequisite: consent.

**AGRI 4800 Topics in Agriculture (1-3)** Individual investigation of a special problem in agriculture in the student's major field not available under regular classes. May be accomplished by reports, surveys, discussions, bibliographies, experiments, and library research. May be repeated for a maximum of 3 semester hours. Prerequisite: consent.

**AGRI 4820 Agricultural Safety (3)** The history of and need for agricultural safety, operating guidelines for machines and chemical handling and application. A review of occupational health laws and how they relate to the agricultural workforce. Only offered Fall semester. Prerequisites: junior standing and AGRI 1200 or AGRI 3200.

**AGRI 4900 Planning and Conducting Programs in Agricultural Education (3)** Development and organization of vocational agriculture programs at the secondary level to meet the needs of local schools and community.

**AGRI 4910 Agricultural Occupations Experience Programs (2)** Understandings and competencies required to establish, administer, and evaluate supervised agricultural occupational experience programs. Prerequisite: AGRI 4900.

**AGRI 4920 Agricultural Mechanics in Agriculture Education (2)** The selection and organization of teaching materials; planning shop facilities and selection of equipment, hand tools, and shop supplies essential in establishing and teaching the agricultural mechanics program. Prerequisite: AGRI 4900.

**AGRI 4930 Methods of Teaching Vocational Agriculture\* (2)** Only offered Fall semester. Prerequisites: admission to Teacher Education Program; double majors must take a methods course for each major; methods should be taken concurrently with AGRI 4940 during the Professional Semester. \*Not available for graduate credit

**AGRI 4940 Secondary Field Experience II\* (1)** Experiences in the secondary school classroom that provide the teacher candidate more advanced involvement in the teaching-learning process. Only offered Spring semester. Prerequisites: admission to Teacher Education Program; should be taken concurrently with AGRI 4930 during the Professional semester. \*Not available for graduate credit

**Integrative Studies Capstone**

**ICAP 4101 Agricultural Capstone Experience\* (3)** Integration of agricultural knowledge and problem solving skills using case studies in a seminar forum. Prerequisites: 24 semester hours of agriculture courses and senior standing. \*Not available for graduate credit.

**Aviation**

In the Department of Aviation, the second digit in the course number stands for the following: 0-General and Professional, 2-Aviation Maintenance, 3-Aviation Flight, 4-Transportation, 5-Aviation Safety.

**Department of Aviation Statement of Policy**

Department of Aviation requires a 2.25 GPA for all AVIA prefixed courses in the Aviation Technology major. Students pursuing flight training in their program must hold a 1st, 2nd or 3rd Class FAA Medical Certificate prior to starting flight lessons

**AVIATION**

**Minor for a Bachelor's Degree**

UCM does not confer teacher certification for this minor (157)

Sem. Hours

**MINOR REQUIREMENTS . . . . . 21**

- AVIA 1020 Aeronautics, 2 or
- AVIA 1310 FAA Private Requirements, 4 . . . . . 2-4
- \*\* Approved electives in aviation . . . . . 17-19
- \*\*Must include a minimum of 3 s.h. of Upper Division courses.

**AVIATION TECHNOLOGY**

**Associate in Science Degree**

(22-161)

Sem. Hours

**FIRST YEAR REQUIREMENTS . . . . . 35**

- \*AVIA 1200 General Mechanics . . . . . 3
- \*AVIA 1210 Aircraft Recip. Power Plants . . . . . 3
- \*AVIA 1255 Basic Airframe Maintenance . . . . . 3
- \*AVIA 2230 Aircraft Electrical Systems . . . . . 3
- \*AVIA 3220 Aircraft Engine Testing . . . . . 3
- \*AVIA 3230 Aircraft Ignition-Starting Systems . . . . . 3
- \*AVIA 3255 Metal Airframe Processing . . . . . 3
- \*ET 1010 Applied Electricity . . . . . 3
- \*GRAP 1110 Fundamentals of Drafting . . . . . 2
- \*MMgt 1120 Welding . . . . . 2
- ENGL 1020 Composition I . . . . . 3
- \*AVIA 4240 Aircraft Engine Instr. & Syst., 3 or
- AVIA 4010 Aerodynamics, 3 . . . . . 3

**SECOND YEAR REQUIREMENTS . . . . . 35-37**

- \*AVIA 2220 Aircraft Carburetion & Lubrication Systems 4
- \*AVIA 3210 Aircraft Hydraulic Systems . . . . . 3
- \*AVIA 3215 Gas Turbine Engines . . . . . 3
- \*AVIA 3225 Propellers & Components . . . . . 3
- \*AVIA 3240 Aircraft Air Conditioning & Pressurization Systems . . . . . 2
- \*AVIA 3260 Aircraft Radio Installation & Oper. . . . . 1
- \*AVIA 4210 Aircraft Insp., Weight & Balancing . . . . . 3
- \*AVIA 4230 Aircraft Instrument Systems . . . . . 3
- \*INDT 1040 Technical Mathematics I . . . . . 3
- T&OE 3060 Technical Writing . . . . . 3
- AVIA 4220 Transport Aircraft Systems, 2 or
- \*AVIA 3250 Complex Aircraft Systems, 3 . . . . . 2-3
- \*AVIA 4080 Nondestructive Insp. & Test., 3 or
- MMGT 2040 Engineering Material Sci., 4 . . . . . 3-4
- HIST 1350 History of the U. S. to 1877, 3 or
- HIST 1351 History of the U. S. from 1877, 3 . . . . . 3

**MINIMUM TOTAL . . . . . 70-72**

\*Courses comprise the FAA-certified Airframe and Powerplant (A&P) curriculum. Students electing to enroll in the A&P curriculum who also wish to complete the associate degree in two years should plan to enroll in the General Education courses during the summer sessions.

**AVIATION TECHNOLOGY**

**Functional Major, Bachelor of Science Degree (43-159)**

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

- Research, prepare and present both oral and written reports on technical or management subjects related to his/her area of specialization
- Identify, analyze and solve technical or management problems related to his/her field of specialization
- Function effectively as a participating member of a work group to accomplish a particular goal
- Demonstrate desirable work habits and professional and conscientious attitudes in his/her particular areas of instruction through participation in professional activities and organizations, and leadership activities both in and out of the classroom
- Demonstrate a mastery of skill beyond the entry level related to one or more areas of technical, management or marketing specialties in the major area of study
- Demonstrate technical and general knowledge required in occupational work areas related to the major field of study.

Sem. Hours

**FUNCTIONAL MAJOR REQUIREMENTS . . . . . 70-77**

AVIA 4010	Aerodynamics . . . . .	3
AVIA 4040	Aviation Management . . . . .	3
AVIA 4500	Aviation Safety . . . . .	3
AVIA 4090	Aviation Law . . . . .	3
AVIA 4420	Air Transportation . . . . .	3
T&OE 3060	Technical Writing . . . . .	3
AVIA 1020	Aeronautics, 2 or	
AVIA 1310	FAA Private Requirements, 4 . . . . .	2-4
INDM 4210	Industrial Management, 3 or	
MGT 3310	Principles of Management, 3 . . . . .	3
MATH 1131	Applied Calculus . . . . .	3

Departmentally approved electives from one of the six areas listed below:

- Area 1 Professional Pilot
- Area 2 Maintenance Management
- Area 3 Airport Management
- Area 4 Avionics Management
- Area 5 Systems Design Technology
- Area 6 Flight Operations Management

**MINOR NOT REQUIRED**

**GENERAL EDUCATION REQUIREMENTS (pages 34-43) . . . . . 48**

MATH 1111	Div. I C (required) . . . . .	3
PHYS 1104	Div. II A (required) . . . . .	4
BTE 1210	Div. II A (required), 2 or	
LIS 1600	Div. II A (required), 2 . . . . .	2
ECON 1010	Div. II B (required) . . . . .	3
ICAP 4113	Div. IV B (required) . . . . .	3

**FREE ELECTIVES . . . . . 0-5**

\*Students choosing Area 2 will not take FREE ELECTIVES of 0-5, but will take 14 additional semester hours for Airframe and Powerplant certification. This brings the MINIMUM TOTAL to 136-138 hours.

**MINIMUM TOTAL . . . . . 124**

**Air Force Reserve Officer Training Corps (AFROTC) Program**

University of Central Missouri offers an Air Force Reserve Officer Training Corps (AFROTC) program in cooperation with the University of Missouri - Columbia. Students enroll in one course per semester at UCM and participate in the program one day per week on the University of Missouri - Columbia campus. Credits earned in the program can count as elective credit toward any degree program at UCM. Courses are taught by active duty Air Force officers assigned as ROTC faculty on the University of Missouri - Columbia campus. All undergraduate and graduate students are eligible to enroll in Air Force ROTC courses. For additional information contact the Department Chair of the Department of Aviation.

**General and Professional**

- AERO 1010 Foundations of the US Air Force I (2)** Introduces the Air Force and Air Force ROTC focusing on professional appearance, military customs, courtesies, core values and officer opportunities.
- AERO 1020 Foundations of the US Air Force II (2)** Continues introduction of the Air Force and Air Force ROTC focusing on Air Force origins, organizations, major commands, installations and sister services. Prerequisite: AERO 1010.
- AERO 2010 Evolution of USAF Air and Space Power I (2)** Explores Air Force heritage, leaders, air power doctrine, origins, organizations, major commands, installations and sister services. Facilitates ROTC Cadet transition to ROTC officer candidate. Prerequisite: AERO 1020.
- AERO 2020 Evolution of USAF Air and Space Power II (2)** Continues transition from Air Force ROTC Cadet to Air Force ROTC officer candidate. Expands leadership skills through use of group leadership problems. Prerequisite: AERO 2010.
- AERO 3010 Air Force Leadership Studies I (3)** Integrated leadership and management skills facilitate development of Air Force leaders. Prerequisite: AERO 2020.
- AERO 3020 Air Force Leadership Studies II (3)** Expand quality Air Force principles to include ethical decision making, personal core values and character development. Prerequisite: AERO 3010.
- AERO 4010 National Security Affairs I\* (3)** Examines the national security process, regional studies and Air Force and Joint Doctrine. \*Not available for graduate credit. Prerequisite: AERO 3020.
- AERO 4020 National Security Affairs II\* (3)** Examines civilian control of military, officership, military justice system and current issues affecting military professionalism. \*Not available for graduate credit. Prerequisite: AERO 4010.

**General and Professional**

- AVIA 1020 Aeronautics (2)** An overview of aviation and aerospace related industries. Consideration is given to the development of aviation and resulting social and economic factors, theory of flight, problems of weather and navigation, occupational opportunities, and government interest, promotion and regulation.
- AVIA 3020 Digital Control of Power Systems (3)** The impact of digital technology on aircraft and automotive power systems. Emphasis will be placed on the methods of controlling these systems. Prerequisite: ET 1010 or ET 1026.
- AVIA 4000 Special Projects in Aviation Technology (1-3)** Investigation of contemporary problems and issues in power and transportation by selected individuals or groups. *May be repeated for a maximum of 6 semester hours.*
- AVIA 4010 Aerodynamics\* (3)** Theories of flight and factors affecting aircraft in flight, including drag, velocity, lift, thrust and wing loading. Comparative analysis of design features in modern aircraft. \*Not available for graduate credit.
- AVIA 4040 Aviation Management (3)** Aviation/airport management and administrative functions, issues, and problems involving both large and small airports, heliports, sea plane bases and related fixed base operations.
- AVIA 4045 Airport Management (3)** Airport operations and management principles and applications. Personnel, security, budgeting, contracts, maintenance and public relations.
- AVIA 4060 Aerospace Education (2-3)** Basic aerospace information dealing with the social, scientific, and technological importance of aviation and space with special applications for teachers who desire to utilize such information in the elementary and secondary school.
- AVIA 4070 Aviation History (3)** Major events, people, and changing technologies in the development of the present day air transportation system.
- AVIA 4080 Nondestructive Inspection and Testing (3)** Magnetic particle, eddy current, dye penetrant, ultrasonic vibration analysis, acoustics, radiographic, infrared, and liquid crystal methods of nondestructive inspection. Prerequisites: PHYS 1104 or PR&T 1010 or AVIA 1200 (for A&P students).
- AVIA 4090 Aviation Law (3)** Legal foundations and the federal and state regulatory functions which influence aviation and those who work in the industry.

**AVIA 4095 International Aviation (3)** Aviation issues in international aviation including ICAO regulations and other factors related to the operation of airplanes in a global environment.

### Aviation Maintenance

**AVIA 1200 General Mechanics (3)** Power mechanics, measurement and transmission. Theory of internal combustion engines. Principles of simple machines, sound, fluid and heat dynamics. Fabrication of fluid lines and fittings. Disassembly, repair and reassembly of a small reciprocating engine.

**AVIA 1210 Aircraft Reciprocating Power Plants (3)** Aircraft reciprocating power plants, construction, operation, overhaul, and engine logs. Laboratory experience in disassembling, cleaning, inspection, and assembling.

**AVIA 1215 General A&P Applications (3)** General A&P related course and laboratory material necessary to transition from military to civilian applications. Prerequisite: Release from the Federal Aviation Administration (FAA sign-off) for General, Airframe, and Powerplant or permission of instructor.

**AVIA 1216 Airframe Applications (3)** Airframe related course and laboratory material necessary to transition from military to civilian applications. Prerequisite: Release from the Federal Aviation Administration (FAA sign-off) for General, Airframe, and Powerplant or permission of instructor.

**AVIA 1217 Powerplant Applications (3)** Powerplant related course and laboratory material necessary to transition from military to civilian applications. Prerequisite: Release from the Federal Aviation Administration (FAA sign-off) for General, Airframe, and Powerplant or permission of instructor.

**AVIA 1218 Federal Aviation Regulations & Records Keeping Applications (3)** Federal aviation regulations and records keeping related course and laboratory material necessary to transition from military to civilian applications. Prerequisite: Release from the Federal Aviation Administration (FAA sign-off) for General, Airframe, and Powerplant or permission of instructor.

**AVIA 1255 Basic Airframe Maintenance (3)** Selecting airframe materials, repairing, rigging, and caring for fabric covered airframes. Prerequisite: MMSGT 1120.

**AVIA 2220 Aircraft Carburetion and Lubrication Systems (4)** Operation of fuel, induction and lubrication systems. Type, composition and characteristics of various fuels and oils. Inspection, maintenance, and overhaul of fuel, induction and lubrication systems' components.

**AVIA 2230 Aircraft Electrical Systems (3)** The theory, operation, and repair of aircraft electrical systems and components.

**AVIA 3210 Aircraft Hydraulic Systems (3)** Theory and practice in the operation, maintenance, and overhaul of hydraulic systems and components.

**AVIA 3215 Gas Turbine Engines (3)** Application, design, construction, operation, and overhaul of gas turbine power plants. Laboratory experiences in disassembling, inspection and assembling.

**AVIA 3220 Aircraft Engine Testing (3)** Theory and practice in installing, trouble shooting, testing, and repairing of aircraft engines.

**AVIA 3225 Propellers and Components (3)** Propellers, governors, and de-icing systems. Inspection, servicing, and overhaul of propellers.

**AVIA 3230 Aircraft Ignition-Starting Systems (3)** Theory and practice in the operation, maintenance, and overhaul of ignition and starting systems and their components.

**AVIA 3240 Aircraft Air Conditioning and Pressurization Systems (2)** Theory and practice with pneumatic, anti-icing, cabin pressurization, and air conditioning systems.

**AVIA 3250 Complex Aircraft Systems (3)** Theory, operation and repair of complex aircraft fuel systems, position and warning systems, ice and rain protection systems. Prerequisite: AVIA 2230.

**AVIA 3255 Metal Airframe Processing (3)** Theory and practice in the construction and repair of metal airframes.

**AVIA 3260 Aircraft Radio Installation and Operation (1)** Theory and practice with communication and navigation radio equipment. Prerequisite: AVIA 2230.

**AVIA 3262 Aircraft Communication/Navigation Systems (4)** Theory, operation, maintenance and repair of aircraft communication and navigation systems. Course includes lectures, demonstrations, and mandatory laboratory activities. Prerequisites: ET 2060, ET 2058, and ET 3014.

**AVIA 3264 Aircraft Pulse and Related Systems (4)** Theory, operation, maintenance and repair of aircraft pulse and related systems. Course includes lectures, demonstrations, and mandatory laboratory activities. Prerequisites: ET 2060, ET 2058, and ET 3014.

**AVIA 4210 Aircraft Inspection, Weight and Balancing\* (3)** Theory and practice of repairing, maintaining, ground handling, jacking, weighing aircraft, and performing inspection. \*Not available for graduate credit.

**AVIA 4220 Transport Aircraft Systems\* (2)** Comparison studies of systems on major types of transport category aircraft and the in-flight management of those systems. Field trips to major airlines are included in the instructional sequence of the course. Prerequisite: AVIA 3340. \*Not available for graduate credit.

**AVIA 4230 Aircraft Instrument Systems\* (3)** Theory and practice of installing, operating, marking, adjusting, and interpreting aircraft instruments. \*Not available for graduate credit.

**AVIA 4240 Aircraft Engine Instruments and Systems\* (3)** Theory and practice in the operation and repair of aircraft engine instruments, fire detection and extinguishing systems, engine cooling systems and exhaust systems. \*Not available for graduate credit.

### Aviation Flight

Aircraft user charges are based on flying time and vary with the type of aircraft. Advance deposits of \$500 or more for each course are required. Contact the Department of Power and Transportation or Chief Flight Instructor for current hourly flight fee rates. Additional federal financial aid may be received by students who incur documented costs for aviation flight training.

**AVIA 1310 FAA Private Requirements (4)** Basic ground school in support of flight training to prepare for the FAA examination for the Private Pilot Certificate. A fee is charged for pilot supplies and ground school materials.

**AVIA 1320 Private Flight A (1)** Increase student's knowledge and experience to operate aircraft in solo flight and night conditions. Third class medical required before class begins. Approximately 20 flight hours required.

**AVIA 1321 Private Flight B (1)** Increase the student's knowledge and aeronautical experience to operate an airplane on dual and solo cross-country flights. Third class medical required. Student should plan to fly approximately 20 hours. Prerequisite: AVIA 1320.

**AVIA 2310 Propulsion Systems (3)** Operation and theory of aircraft propellers and both reciprocating and gas turbine engines. Laboratory activity includes testing and troubleshooting major functional components and systems. Prerequisite: PR&T 1010.

**AVIA 3305 FAA Commercial Requirements (3)** Commercial ground school subjects in support of flight training to prepare for FAA examination for Commercial Pilot Certificate. Prerequisite: AVIA 3314.

**AVIA 3310 Commercial Flight A (1)** Increase the student's knowledge and aeronautical experience in dual and solo cross country flying in both day and night conditions. Student should plan to fly approximately 20 hours. Prerequisite: AVIA 1321 or Private Pilot Certificate.

**AVIA 3311 Commercial Flight B (1)** Increase the student's knowledge and aeronautical experience in solo and cross country flying. Student should plan to fly approximately 20 hours. Prerequisite: AVIA 3310.

**AVIA 3312 Commercial Flight C (1)** Increase the student's knowledge and aeronautical experience in solo cross country flying. Student should plan to fly approximately 20 hours. Prerequisite: AVIA 3311.

**AVIA 3313 Instrument Flight A (1)** Increase the student's knowledge and aeronautical experience in maneuvering the aircraft solely by reference to the flight instruments. Includes the use of full and partial panel reference. The student should plan to fly approximately 20 hours. Prerequisite: AVIA 3312.

**AVIA 3314 Instrument Flight B (1)** Increase the student's knowledge and aeronautical experience in IFR cross-country and emergency procedures. Student should plan to fly approximately 20 hours. Prerequisite: AVIA 3313.

**AVIA 3315 Commercial Flight D (1)** Increase the student's knowledge and the skill necessary to safely fly a complex aircraft. Student should plan to fly approximately 20 hours. Prerequisite: AVIA 3314.

**AVIA 3316 Commercial Flight E (1)** Increase the student's knowledge and provide the skill necessary to safely fly a complex aircraft.

Additionally, the commercial flight maneuvers are introduced. Student should plan to fly approximately 20 hours. Prerequisite: AVIA 3315.

**AVIA 3317 Commercial Flight F (1)** Increase the student's knowledge and provide the aeronautical skill necessary for the issuance of the Commercial Pilot Certificate. Student should plan to fly approximately 20 hours. Prerequisite: AVIA 3316.

**AVIA 3325 FAA Instrument Requirements (4)** Instrument ground school subjects in support of flight training to prepare for FAA examination for instrument rating. Prerequisite: AVIA 1321.

**AVIA 3330 Multi-Engine Certification (1)** Classroom and laboratory instruction to provide aeronautical knowledge and skills for multi-engine pilot certification. Prerequisite: AVIA 3314.

**AVIA 3340 Aircraft Systems and Components (3)** Design, construction and operation of aircraft mechanical, electrical hydraulic, and pneumatic systems with emphasis on trouble analysis, servicing methods, and safety precautions. Prerequisite: AVIA 2310.

**AVIA 3360 Flight Instructor--Airplane (3)** Combines classroom and flight laboratory experience to prepare for FAA written examination and flight test for flight instructor rating. Prerequisite: AVIA 3317.

**AVIA 3362 Flight Instructor - Instrument (1)** Instruction, flight training and practice teaching to obtain the aeronautical skills and knowledge necessary for FAA Certified Flight Instructor, Instruments. Prerequisite: AVIA 3360.

**AVIA 3364 Flight Instructor - Multi-Engine (1)** Instruction, flight training and practice teaching to obtain the aeronautical skills and knowledge necessary for FAA Certified Flight Instructor, Multi-Engine. Prerequisites: AVIA 3330 and AVIA 3360.

**AVIA 3390 Turboprop Familiarization (2)** Systems operation and flying procedures for multi-engine turboprop aircraft with particular emphasis on current complex aircraft. Class will involve both ground school and flying a minimum of five hours. Prerequisites: AVIA 3317 and AVIA 3330.

**AVIA 4310 Air Traffic Control (2)** Purposes, activities and operational procedures of air traffic control centers, towers and flight service stations. Study will include both standard and emergency services available from ATC/FSS systems.

**AVIA 4320 Physiology and Flying (2)** Physiological factors related to flying, including those related to changes in pressure, supply of oxygen, spatial disorientation, and both positive and negative effects of chemicals in the body. An additional fee is assessed for this course.

**AVIA 4330 Sport Aviation (2)** Sailplanes, hot air balloons, and related sport aircraft. Students will have flying experience in either sailplanes or hot air balloons. Flight fees are required to cover expenses of flight instruction. Principles of organizing fly-ins, air shows, and contests.

**AVIA 4350 Aviation Weather (3)** Meteorology for pilots with information for understanding and interpreting aviation weather reports and forecasts, weather hazards including windshear, turbulence, icing and visibility restrictions. Prerequisite: AVIA 1310

**AVIA 4370 Advanced Flight Crew Management (3)** Advanced flight crew operations with emphasis on the transition of the professionally qualified pilot into a highly skilled member of a flight management team with knowledge of cockpit resource management, high speed and high altitude flight techniques, turbine-powered operations and advanced avionics systems. Prerequisite: AVIA 3317.

**AVIA 4380 Flight Operations Management (3)** Airline flight operations management principles and applications.

**AVIA 4390 Part 135 Flight Operations (3)** Emphasis is placed on the operating systems of a Beechcraft King Air A90 along with the knowledge required to operate in a Part 135 Flight Operation as Second-In-Command. Prerequisites: AVIA 3330, AVIA 3317, and AVIA 3314.

### Transportation

**AVIA 4420 Air Transportation (3)** Organization and administration of the air transportation industry with attention to airline regulations, rate and route structures, air cargo and freight, scheduled and nonscheduled operations, and contract air transport.

**AVIA 4430 Corporate Aviation Management (3)** Role, scope and purpose of business aviation. Managerial, administrative and financial business functions related to the use of business aviation aircraft.

### Aviation Safety

**AVIA 4500 Aviation Safety (3)** To develop a knowledge of contributing factors affecting aviation safety and fostering control methods and techniques to reduce accidents related to aircraft and the aviation field.

### Integrative Studies Capstone

**ICAP 4113 Air Operations Management\* (3)** Challenges the student to perform as an effective member of an air operations management team using critical thinking, decision making and ethics. Prerequisite: senior standing in aviation technology. \*Not available for graduate credit.



## Biology and Earth Science

### Biology

**NOTE:** Careers in professional specialties in biology generally require preparation through at least the masters degree. The biology programs at UCM provide preparation for students who plan professional work in the following biological specialties:

- Biomedical Sciences
- Entomology
- Environmental Biology
- Fisheries and Estuarine Ecology
- Forest Biology
- Marine Biological Sciences
- Oceanography
- Plant Science
- Systematic Botany
- Wildlife Conservation

### BIOLOGY

#### Major, Bachelor of Arts Degree

(42-379)

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

- Collect, analyze and apply information to solve problems (managing information).
- Use various laboratory techniques and/or instruments with understanding, accuracy, precision and safety. (technology).
- Develop demonstrations and experiments that illustrate biological concepts or develop new concepts. Think logically within the scientific parameters of professional biologists. (higher-order thinking).
- Use the language and concepts of Biology to communicate effectively in oral and written form; to follow instructions precisely and to function in independent and collaborative settings. (communicating and interacting).
- Read scientific texts in a language other than English (communicating).
- Exhibit the ethical use of knowledge, materials and procedures that demonstrates an impact on society. (valuing).
- Be eligible to apply for jobs in many commercial laboratories, quality control positions, and related. (technology, interacting.)
- Be eligible to apply for graduate programs in the area of biology represented by the student's major interest and coursework (technology, interacting).
- Be eligible to apply for entry into professional schools in medicine, dentistry, veterinary medicine and related paramedical professions. (technology, interacting)

Sem. Hours

#### MAJOR REQUIREMENTS . . . . . 39

BIOL 1000	The Discipline of Biology . . . . .	1
BIOL 4000	Biology Colloquium . . . . .	1
BIOL 2020	General Ecology . . . . .	3
BIOL 1111	Biology I . . . . .	4
BIOL 1112	Biology II . . . . .	4
BIOL 2511	Genetics . . . . .	4
BIOL 2512	Cell Biology . . . . .	3
ICAP 4222	The Biological Perspective . . . . .	3
	Upper-level electives in biology . . . . .	16

#### MINOR REQUIREMENTS . . . . . 20-25

**GENERAL EDUCATION REQUIREMENTS** (pages 34-43) In the major, BIOL 1111 and BIOL 1112 are allowed to fulfill 4 s.h. of Div. II A; the Modern Language Requirement fulfills 3 s.h. of Div. II C; ICAP 4222 fulfills 3 s.h. of Div. IV B . . . . . **38**

#### MODERN LANGUAGE REQUIREMENT . . . . . 3-9

Refer to Bachelor's Degree Requirements section for fulfillment options.

#### FREE ELECTIVES . . . . . 13-24

#### MINIMUM TOTAL . . . . . 124

### BIOLOGY

#### Major, Bachelor of Science Degree

(43-380)

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

- Collect, analyze and apply information to solve problems (managing information).
- Use various laboratory techniques and/or instruments with understanding, accuracy, precision and safety. (technology).
- Develop demonstrations and experiments that illustrate biological concepts or develop new concepts. Think logically within the scientific parameters of professional biologists. (higher-order thinking).
- Use the language and concepts of Biology to communicate effectively in oral and written form; to follow instructions precisely and to function in independent and collaborative settings. (communicating and interacting).
- Exhibit the ethical use of knowledge, materials and procedures that demonstrates an impact on society. (valuing).
- Be eligible to apply for jobs in many commercial laboratories, quality control positions, and related. (technology, interacting).
- Be eligible to apply for graduate programs in the area of biology represented by the student's major interest and coursework (technology, interacting).
- Be eligible to apply for entry into professional schools in medicine, dentistry, veterinary medicine and related paramedical professions. (technology, interacting).

Sem. Hours

#### MAJOR REQUIREMENTS . . . . . 45

BIOL 1000	The Discipline of Biology . . . . .	1
BIOL 4000	Biology Colloquium . . . . .	1
BIOL 2020	General Ecology . . . . .	3
BIOL 1111	Biology I . . . . .	4
BIOL 1112	Biology II . . . . .	4
BIOL 2511	Genetics . . . . .	4
BIOL 2512	Cell Biology . . . . .	3
ICAP 4222	The Biological Perspective . . . . .	3
	Departmentally approved electives in biology	
	See Department Chair for assignment to faculty adviser . .	22

#### MINOR REQUIREMENTS . . . . . 20-25

**GENERAL EDUCATION REQUIREMENTS** (pages 34-43) In the major, BIOL 1111 and BIOL 1112 are allowed to fulfill 4 s.h. of Div. II A; ICAP 4222 fulfills 3 s.h. of Div. IV B . . . . . **41**

#### FREE ELECTIVES . . . . . 13-18

#### MINIMUM TOTAL . . . . . 124

### BIOLOGY

#### Functional Major, Bachelor of Science in Education Degree

Unified science certification to teach any of the beginning sciences, i.e., Physics I, Chemistry I, etc., and all levels of biology, grades 9-12 (41-487)

The graduate with a Biology Functional Major, Bachelor of Science in Education Degree will use the knowledge and skills obtained in the program to:

- Challenge the Praxis and C-BASE exams allowing them to be licensed as teachers upon successful completion of these exams.
- Be qualified for teacher certification in the state of Missouri.
- Be qualified to apply for graduate programs in education.

Sem. Hours

#### FUNCTIONAL MAJOR REQUIREMENTS . . . . . 60

BIOL 1000	The Discipline of Biology . . . . .	1
BIOL 1111	Biology I . . . . .	4
BIOL 1112	Biology II . . . . .	4
BIOL 2020	General Ecology . . . . .	3
BIOL 2511	Genetics . . . . .	4
BIOL 2512	Cell Biology . . . . .	3
BIOL 3611	Microbiology . . . . .	4
BIOL 3431	Animal Physiology, 4 or	

BIOL 4411	Plant Physiology, 4	4
BIOL 3712	Field Natural History	4
BIOL 4810	Curriculum Dev. in Biological Sci.	2
BIOL 4811	Investigative Laboratory	2
EASC 1004	Intro. to the Sciences: Geology	4
CHEM 1131	General Chemistry I	5
*PHYS 1101	College Physics I, 4 or	
*PHYS 1104	Intro. to Sciences (Physics), 4 or	
PHYS 2121	University Physics I, 5 or	4-5
T&OE 2000	Technology & Change	3

Departmentally approved electives (selected from courses listed below). Hours of electives taken must bring the total in the major to 60 hours 8-9  
**UNIFIED SCIENCE CERTIFICATION** - The starred (\*) courses must be taken as part of the elective credits for Unified Science certification in biology - certification to teach any of the beginning sciences (i.e., Chemistry I, Physics I, etc.) and all levels of biology, grades 9-12.

PSY 4520	Stat. for Behavioral Sciences	3
*CHEM 1132	General Chemistry II	5
CHEM 2650	Elem. Org. & Biochemistry	5
CHEM 3212	Quantitative Analysis	3
CHEM 3341	Organic Chemistry I	4
CHEM 3342	Organic Chemistry II	4
CHEM 4421	Biochemistry	4
EASC 3010	Environmental Geology	3
EASC 3112	Astronomy	3
*EASC 3114	Meteorology	3
EASC 3320	Mineralogy	4
*EASC 4010	Special Problems in Geology	1
*PHYS 1102	College Physics II, 4 or	
PHYS 2121	University Physics I, 5	4-5
PHYS 3511	Modern Physics I	3
PHYS 3611	Optics	3
PHYS 4312	Electricity & Magnetism	3
PHYS 3080	Adv. Physics Laboratory	1-2

Departmentally approved electives in Biology

**MINOR NOT REQUIRED**

**GENERAL EDUCATION REQUIREMENTS** (pages 34-43) In the functional

major, EASC 1004	fulfills 4 s.h. of Div. II A; two courses in biology are allowed to fulfill 3 s.h. of Div. II A; T&OE 2000 fulfills 2 s.h. of Div. II A; in the professional education requirements, ICAP 4468 fulfills 3 s.h. of Div. IV B	36
HIST 1350	Div. II B or	
HIST 1351	Div. II B (required)	3
POLS 1510	Div. II B (required)	3
PSY 4230	Psychology of Adolescence	3

Secondary Education students will be allowed to substitute PSY 4230 to fulfill 3 s.h. of Div. III.

**PROFESSIONAL EDUCATION REQUIREMENTS** (page 115) 28

**MINIMUM TOTAL** 124

**BIOLOGY**

Minor for a Bachelor's Degree

UCM does not confer teacher certification for this minor. (476)

Sem. Hours

**MINOR REQUIREMENTS** 24

BIOL 2020	General Ecology	3
BIOL 1111	Biology I	4
BIOL 1112	Biology II	4
BIOL 2511	Genetics	4
BIOL 2512	Cell Biology	3
Electives in biology		6

**GENERAL EDUCATION REQUIREMENTS** (pages 34-43) In the minor, BIOL 1111 and BIOL 1112 are allowed to fulfill 4 s.h. of Div II A.

**BIOLOGY**

Functional Major, Bachelor of Science Degree (43-400)

The graduate with a Biology Functional Major, Bachelor of Science Degree will use the knowledge and skills obtained in the program to achieve various student learning outcomes depending upon the options selected in this program. There are three emphasis areas; Biomedical emphasis, Ecology/Environment emphasis and Conservation Enforcement emphasis. Students in this program will use the knowledge and skills obtained in the program to:

- Collect, analyze and apply information to solve problems (managing information).
- Use various field and laboratory techniques and/or instruments with understanding, accuracy, precision and safety. (technology).
- Develop demonstrations and experiments, and plan and lead field trips that illustrate biological concepts or develop new concepts. Think logically within the scientific parameters of professional biologists. (higher-order thinking).
- Use the language and concepts of Biology to communicate effectively in oral and written form; to follow instructions precisely and to function in independent and collaborative settings. (communicating and interacting).
- Exhibit the ethical use of knowledge, materials and procedures that demonstrates an impact on society. (valuing).
- Students emphasizing the Biomedical option will be eligible to apply for entry into professional schools in medicine, dentistry, veterinary medicine and related paramedical professions. (technology, interacting).
- Students emphasizing the Ecology/Environment option will be eligible to apply to advanced degree programs in environmental, ecological and related programs, and to apply for positions in the EPA, Mo. Dept of Conservation, Department of Natural Resources, and other such agencies. There are also many private businesses and testing laboratories working on ecological/environmental projects to which our graduates may apply. (technology, communicating).
- Students emphasizing the Conservation Enforcement option will be eligible for internships and positions with the Missouri Department of Conservation, Department of Natural Resources and be eligible to apply for jobs in federal and state environmental agencies. They will also be eligible for positions in businesses interacting with these environmental agencies. (technology, communicating, interacting).

Sem. Hours

**FUNCTIONAL MAJOR REQUIREMENTS** 69-70

**CORE** 37-38

BIOL 1000	The Discipline of Biology	1
BIOL 1111	Biology I	4
BIOL 1112	Biology II	4
BIOL 2020	General Ecology	3
BIOL 2511	Genetics	4
BIOL 2512	Cell Biology	3
BIOL 4000	Biology Colloquium	1
ICAP 4222	The Biological Perspective	3
CHEM 1131	General Chemistry I	5
CHEM 1132	General Chemistry II	5
Elective from the following		4-5
CHEM 2650	Elem. Organic & Biochemistry	5
CHEM 3341	Organic Chemistry	4
BIOL 4514	Molecular Biology, 3 and	
BIOL 4515	Molecular Biology Lab, 2	5
Elect one of the three areas (A, B, or C)		32
A. Ecological Studies		32
BIOL 3711	Plant Identification	4
BIOL 4711	Animal Ecology	4
EASC 3010	Environmental Geology	3
GEOG 4220	Geographic Info. Systems I	3
GEOG 4291	Conservation of Nat. Resources	3
Elective from the following		4
BIOL 4210	Ichthyology	4
BIOL 4221	Mammalogy	4
BIOL 4223	Ornithology	4

BIOL 4232	Herpetology	4
BIOL 4312	Entomology	4
Departmentally Approved Electives (see Chair or adviser) . . . 11		
B. Biomedical/Molecular Studies . . . . . 32		
BIOL 3611	Microbiology	4
PHYS 1101	College Physics I	4
BIOL 3431	Animal Physiology 4, OR	
BIOL 4411	Plant Physiology 4,	4
Elective from the following . . . . . 4		
BIOL 4403	Environmental Physiology	4
BIOL 4311	Parasitology	4
BIOL 4511	Cytogenetics	4
Departmentally approved electives (see Chair or adviser) . . . 16		
C. Conservation Enforcement Studies . . . . . 32		
COMM 2620	Public Relations	3
CJ 1000	Introduction to Criminal Justice	3
CJ 2300	Criminal Law	3
CJ 3303	Criminal Procedure	3
CJ 4302	Criminal Evidence	3
Elective from the following . . . . . 3		
COMM 1520	Elements of News Reporting	3
COMM 4415	Screenplay Writing	3
Elective from the following . . . . . 4		
BIOL 4210	Ichthyology	4
BIOL 4221	Mammalogy	4
BIOL 4223	Ornithology	4
BIOL 4232	Herpetology	4
BIOL 4312	Entomology	4
Departmentally approved electives (see Chair or Adviser) . . . 10		

**MINOR NOT REQUIRED**

**GENERAL EDUCATION REQUIREMENTS** (pages 34-43) In the functional major, BIOL 1111, BIOL 1112, CHEM 1131, and CHEM 1132 are allowed to fulfill 7 s.h. of Div. II A; ICAP 4222 fulfills 3 s.h. of Div. IV B . . . . . 38

**FREE ELECTIVES** . . . . . 16-17

**MINIMUM TOTAL** . . . . . 124

**MEDICAL TECHNOLOGY**

**Functional Major, Bachelor of Science Degree (43-384)**

The graduate with a Medical Technology Functional Major, Bachelor of Science Degree will use the knowledge and skills obtained in the program to:

- Collect, analyze and apply information to solve problems. (managing information)
- Use various laboratory techniques and/or instruments with understanding, accuracy, precision and safety. (technology)
- Think logically within the scientific parameters of professional biologists. (higher-order thinking)
- Use the language and concepts of Biology to communicate effectively in oral and written form; to follow instructions precisely and to function in independent and collaborative settings. (communicating and interacting)
- Exhibit the ethical use of knowledge, materials and procedures that demonstrates an impact on society. (valuing)
- Challenge the licensure exam of the National Accrediting Agency for Clinical Laboratory Scientists (NAACLS) to become a certified Medical Technologist (ASCP) or Clinical Laboratory Scientist (ASCP) after completing a 12-month clinical rotation at an affiliated hospital.
- Be eligible to apply for graduate/professional training in nearly all medical fields.

Sem. Hours

**FUNCTIONAL MAJOR REQUIREMENTS** . . . . . 65-66

BIOL 1000	The Discipline of Biology	1
BIOL 1111	Biology I	4
BIOL 2401	Anatomy & Physiology I	4
BIOL 2402	Anatomy & Physiology II	4
BIOL 2511	Genetics	4

BIOL 2512	Cell Biology	3
BIOL 3413	Immunology	3
BIOL 3611	Microbiology	4
BIOL 4000	Biology Colloquium	1
BIOL 4311	Parasitology	4
BIOL 4514	Molecular Biology	3
BIOL 4515	Molecular Biology Lab	2
CHEM 1131	General Chemistry I	5
CHEM 1132	General Chemistry II	5
CHEM 3212	Quantitative Analysis	3
CHEM 3341	Organic Chemistry I	4
MATH 1111	College Algebra	3
MATH 1112	College Trigonometry, 2 or	
PSY 4520	Stat. for Behavioral Sciences, 3	2-3
ET 1020	General Electronics	3
ICAP 4222	The Biological Perspectives	3

**MEDICAL TECHNOLOGY CREDIT** . . . . . 30

Courses in various accredited medical technology programs may vary from hospital to hospital. All courses are recorded as BIOL 4012.

Courses usually offered are:

Clinical Biochemistry	6-10
Clinical Urinalysis	0-3
Clinical Hematology	4-7
Clinical Immunohematology	3-4
Clinical Immunology	2-6
Clinical Microbiology	6-8
Special Topics	0-4

These courses are part of the Medical Technology functional major required by affiliation agreement for this program. They are not offered on campus or open to students in other programs. Credit for these courses is allowed for work taken at one of our affiliated hospitals in Kansas City (Menorah Medical Center, North Kansas City Memorial, St. Luke's Hospital, Trinity Lutheran Hospital, Research Medical Center) and in Springfield (St. John's Hospital, Lester E. Cox Medical Center) or any fully accredited hospital medical technology training program which must be accredited by the American Medical Association Council on Medical Education. Admission and fees for the hospital portions of this program are the prerogative of the hospital and thus cannot be guaranteed by the University. Licensure to practice is dependent upon state regulations and professional examinations and thus cannot be guaranteed by the University or hospital. For additional information on this program and for entry into clinical programs, students are urged to see the program adviser at their earliest convenience. Because of complexities of affiliation agreements and variations in clinical programs, all pertinent information cannot be presented in this catalog.

**MINOR NOT REQUIRED**

**GENERAL EDUCATION REQUIREMENTS** (pages 34-43) In the functional major, MATH 1111 fulfills 3 s.h. of Div. I C; BIOL 1111, BIOL 2511, CHEM 1131, and CHEM 1132 are allowed to fulfill 7 s.h. of Div. II A; ICAP 4222 fulfills 3 s.h. of Div. IVB . . . . . 35

**MINIMUM TOTAL** . . . . . 125

**FORENSIC SCIENCE**

**Minor for a Bachelor's Degree (491)**

Sem. Hours

**MINOR REQUIREMENTS** . . . . . 24-27

**Biology Major Track** . . . . . 26-27

BIOL 2010	Human Biology, 3 or	
BIOL 2401	Anatomy & Physiology I, 4	3-4
BIOL 3410	Forensic Science	4
CHEM 1131	Chemistry I	5
CHEM 1132	Chemistry II	5
CJ 1000	Intro. To Criminal Justice	3
CJ 3400	Criminal Investigation	3
CJ 4302	Criminal Evidence	3

<b>Chemistry Major Track</b> . . . . .	<b>24-25</b>
BIOL 1111 Biology I . . . . .	4
BIOL 2010 Human Biology, 3 or	
BIOL 2401 Anatomy & Physiology I, 4 . . . . .	3-4
BIOL 2511 Genetics . . . . .	4
BIOL 3410 Forensic Science . . . . .	4
CJ 1000 Intro. To Criminal Justice . . . . .	3
CJ 3400 Criminal Investigation . . . . .	3
CJ 4302 Criminal Evidence . . . . .	3

<b>Criminal Justice Major Track</b> . . . . .	<b>25-26</b>
BIOL 1111 Biology I . . . . .	4
BIOL 2010 Human Biology, 3 or	
BIOL 2401 Anatomy & Physiology I, 4 . . . . .	3-4
BIOL 2511 Genetics . . . . .	4
BIOL 3410 Forensic Science . . . . .	4
CHEM 1131 Chemistry I . . . . .	5
CHEM 1132 Chemistry II . . . . .	5

Criminal Justice majors must take CJ 3400 and CJ 4302 as departmentally approved electives in the major.

This program is also listed in the Chemistry department.

**BIOL 1000 The Discipline of Biology (1)** An introduction to biology as an academic endeavor including consideration of the subdisciplines of biology, requirements of students, and professional opportunities. Prerequisite: declaration of major in biology.

**BIOL 1003 Introduction to the Sciences: Ecology (3)** Introduction to biological science with emphasis on scientific methodology, ecological concepts regarding populations, communities and ecosystems and the impact of humans on the natural world. No laboratory included. Not available to those with credit in BIOL 1004.

**BIOL 1004 Introduction to the Sciences: Ecology (4: 3 lecture, 1 lab)** Introduction to biological science with emphasis on scientific methodology, ecological concepts regarding populations, communities and ecosystems and the impact of humans on the natural world. Laboratory included. Not available to those with credit in BIOL 1003.

**BIOL 1005 Introduction to Environmental Science (3)** Environmental science as an integrative study of human interaction with the environment that seeks to meet the needs of students with little background in science.

**BIOL 1111 Biology I (4: 3 lecture, 1 lab)** Examination of basic biological principles including the scientific method; macromolecules of life; cellular structure, function, and replication; and plant form, function and diversity. Laboratory included. An additional fee is associated with this course.

**BIOL 1112 Biology II (4: 3 lecture, 1 lab)** Introduction to the evolution and classification of the metazoa with emphasis on the form and function of selected invertebrate and vertebrate animals. Prerequisites: BIOL 1000, BIOL 1111. An additional fee is associated with this course.

**BIOL 2010 Human Biology (3)** An overview of human biology, emphasizing physiology, development, health, interpersonal and environmental interactions. Not open to Biology majors or minors.

**BIOL 2020 General Ecology (3)** An introduction to the major concepts of ecology in the context of evolution and the ecology of populations, communities, and ecosystems. Prerequisite: BIOL 1112.

**BIOL 2401 Anatomy and Physiology I (4: 3 lecture, 1 lab)** A functional study of cellular and metabolic processes and cardiovascular, lymphatic, respiratory and digestive systems integrated with a study of pertinent structures. Prerequisite: CHEM 1103 or CHEM 1104 or CHEM 1131. An additional fee is associated with this course.

**BIOL 2402 Anatomy and Physiology II (4: 3 lecture, 1 lab)** A functional study of temperature, water and electrolyte balances and skeletal, muscular, neural, endocrine and reproductive systems integrated with a study of pertinent structures. Prerequisite: BIOL 2401. An additional fee is associated with this course.

**BIOL 2511 Genetics (4: 3 lecture, 1 lab)** Hereditary principles and their application to classical and molecular genetics. Laboratories emphasize inquiry-based learning applied to exercises using Mendelian genetics and DNA technology. Prerequisites: MATH 1111, BIOL 1111 and CHEM 1131. BIOL 1112 may be substituted for CHEM 1131 but CHEM 1131 is highly recommended. An additional fee is associated with this course.

**BIOL 2512 Cell Biology (3)** A study of cellular macromolecules, DNA replication, transcription, and translation; cellular organelles, cytoskeleton, energetics, division; and the biology of the cancer cell. Prerequisite: BIOL 1111.

**BIOL 3102 Evolution (3)** Lecture and discussion of current and historical evolutionary theory. The process of scientific investigation will be contrasted with non-scientific methods. Prerequisites: BIOL 1111, BIOL 1112, BIOL 2020, and BIOL 2511.

**BIOL 3211 Comparative Anatomy (4: 2 lecture, 2 lab)** Comparative morphology of the early development and evolution of the organ systems of vertebrates. Laboratory study of representative vertebrates. Prerequisites: BIOL 1111, BIOL 1112 and BIOL 2020. An additional fee is associated with this course.

**BIOL 3213 Embryology of Vertebrates (3: 2 lecture, 1 lab)** Germ cells, fertilization, and development of systems, organs, and tissues of vertebrate embryos. Only offered Fall semester. Prerequisites: BIOL 1111 and BIOL 1112 or BIOL 2402; and CHEM 1104 or CHEM 1131. An additional fee is associated with this course.

**BIOL 3215 Medical Terminology (2, 3)** The language of medical and paramedical practices. Terminology related to organ systems of the body is presented with emphasis on Latin and Greek roots. May not be repeated for credit. Prerequisites: One biology course.

**BIOL 3410 Forensic Science (4: 3 lecture, 1 lab)** Theoretical and hands-on applications of forensic science including types of deaths, taphonomy, toxicology, body fluid and blood analysis, ballistics and trace evidence determinations. Prerequisites: Biol 2010 or 2401, and Chem 1132.

**BIOL 3413 Immunology (3)** A survey of the field of immunology including the types of immune responses, antibody synthesis, antigen-antibody interactions, hypersensitivity, immunity to infection, and the design of laboratory techniques for immunological screening. Only offered Spring semester. Prerequisite: BIOL 2401 or BIOL 3431. Corequisite: BIOL 4517, unless previously taken (Medical Technology Functional Majors do not need concurrent enrollment in BIOL 4517).

**BIOL 3414 Histology (3: 2 lecture, 1 lab)** The functional morphology of selected tissues at the light microscopic level. Laboratory involves practice in slide reading. Only offered Fall semester. Prerequisite: BIOL 3211 or BIOL 2402 or BIOL 3431. An additional fee is associated with this course.

**BIOL 3431 Animal Physiology (4: 3 lecture, 1 lab)** Animal functions in terms of their needs for oxygen, food, energy, temperature, water, movement, information, and integration. Prerequisites: BIOL 1111 and 1112 or AGRI 3410; and CHEM 1104 or CHEM 1131. An additional fee is associated with this course.

**BIOL 3611 Microbiology (4: 2 lecture, 2 lab)** An introduction to the major groups of microorganisms including their cell structure, metabolism, genetics, and ecology. Emphasis is placed upon the bacteria and viruses. Prerequisites: BIOL 1112 or BIOL 2402; and CHEM 1104 or CHEM 1131. An additional fee is associated with this course.

**BIOL 3711 Plant Identification (4: 2 lecture, 2 lab)** A basic course in plant identification, using classification, nomenclature, collection and preservation techniques. Involves much field and lab work. Prerequisites: BIOL 1111 and BIOL 1112.

**BIOL 3712 Field Natural History (4: 2 lecture, 2 lab)** Provides basic experience in field and laboratory identification of local plants and animals and an introduction to environmental awareness. This is a background course for all courses in field biology and is especially useful to teachers and pre-professional students. Only offered Fall semester. Prerequisites: BIOL 1111 and BIOL 1112. An additional fee is associated with this course.

**BIOL 3721 Wildlife Conservation (3)** Wildlife resources of North America and their importance in our economic and cultural life; biological methods of preservation, restoration and management. Prerequisites: BIOL 1111 and BIOL 1112.

**BIOL 4000 Biology Colloquium\* (1)** Investigation of professional opportunities in biology. Evaluation of the program by students and assessment of student progress in biology. Prerequisite: 24 semester hours of biology or consent of department chair. \*Not available for graduate credit.

**BIOL 4011 Special Problems in Biology (1-4)** Individual work under supervision of a staff member. Problems may be undertaken in any field of biology. *May be repeated for a maximum of 4 semester hours.* Prerequisite: consent of instructor.

**BIOL 4012 Special Projects in Biology (1-8)** *May be repeated for a maximum of 9 semester hours.* With permission of the Department Chair, functional majors in medical technology may repeat for a maximum of 30 semester hours. Prerequisite: consent of instructor.

**BIOL 4013 Introduction to Experimental Design and Analysis (3)** This course covers the conceptualization, implementation, analysis, and communication of research in biology. Prerequisites: BIOL 1111 or BIOL 1112 and College Algebra or Pre Calculus or consent of instructor.

**BIOL 4014 Internship in Biology (1- 9)** Practical experience working within the various components of the Biology discipline. Only 4 credit hours total may be used to satisfy Approved Biology Electives. Prerequisite: must be a major in the Department of Biological Sciences with at least 60 hours of credit.

**BIOL 4210 Ichthyology (4: 2 lecture, 2 lab)** A thorough examination of the biology of the fish with special emphasis on the fish of Missouri. Students will be expected to develop a detailed knowledge of the literature on ichthyology. Field trips at additional expense to the student are part of this course. An additional fee is associated with this course. Prerequisites: CHEM 1131 and 14 hours of biology including BIOL 1112.

**BIOL 4221 Mammalogy (4: 2 lecture, 2 lab)** A thorough examination of the Class Mammalia. Students will be expected to develop a detailed knowledge of the literature on mammalogy. Only offered Fall semester. Prerequisites: BIOL 1111 and BIOL 1112. An additional fee is associated with this course.

**BIOL 4223 Ornithology (4: 2 lecture, 2 lab)** An examination of the biology of birds with special emphasis on the field study of locally occurring species. Prerequisites: BIOL 1111 and BIOL 1112.

**BIOL 4232 Herpetology (4: 2 lecture, 2 lab)** A thorough examination of the classes Amphibia and Reptilia, including systematics, evolution and ecology of these groups with special attention to identification of local forms. Prerequisite: BIOL 2512.

**BIOL 4311 Parasitology (4: 2 lecture, 2 lab)** Animal parasites, with emphasis on identification, morphology, biology, life histories, and host-parasite relationships. Only offered Fall semester. Prerequisite: BIOL 2512. An additional fee is associated with this course.

**BIOL 4312 Entomology (4: 2 lecture, 2 lab)** An introduction to the systematics, morphology, physiology, evolution, and ecology of insects. Only offered Fall semester. Prerequisites: BIOL 1111 and BIOL 1112. An additional fee is associated with this course.

**BIOL 4400 Endocrinology (2)** Examination of the physiology of endocrine glands and the roles of each hormone in the regulation of growth, metabolism, and reproduction. Examples will be selected from humans and domestic species. Prerequisite: BIOL 3431.

**BIOL 4403 Environmental Physiology (4: 3 lecture, 1 lab)** Physiological responses and adaptations to alterations in natural and man-generated environmental factors such as temperature, light cycles, pressure, water, ions, radiation, vibration, chemicals, microorganisms, and exercise. Prerequisite: BIOL 2402 or BIOL 3431. An additional fee is associated with this course.

**BIOL 4411 Plant Physiology (4: 2 lecture, 2 lab)** Life processes occurring in plants, the factors affecting these processes, their measurement, and the significance of these processes to the growth of the plant. Only offered Fall semester. Prerequisites: BIOL 2512; and CHEM 1104 or CHEM 1131. An additional fee is associated with this course.

**BIOL 4511 Cytogenetics (4: 2 lecture, 2 lab)** Examination of cellular and molecular mechanisms in cell division and their role in evolution and human health. Laboratory exercises include techniques for experimentally manipulating chromosomes and use of computer and video techniques. Prerequisites: BIOL 2512; and CHEM 1104 or CHEM 1131. An additional fee is associated with this course.

**BIOL 4514 Molecular Biology (3)** This course emphasizes how biological molecules interact to express cellular phenotypes. Transcriptional and translational controls of gene expression and the latest biotechnological advances are discussed. Prerequisite: BIOL 2511.

**BIOL 4515 Molecular Technology Laboratory (2)** This course emphasizes the proper use of laboratory equipment, molecular techniques, experimental design, and data analysis. Questions and experiments encountered in molecular biology are addressed. Prerequisite: BIOL 4514 with a grade of C or better or concurrent enrollment with consent of instructor. An additional fee is associated with this course.

**BIOL 4516 Hematology/Virology (3)** The study of blood and viruses. Topics include hematopoiesis, coagulation, viral replication, host responses to viruses, and normal and diseased host responses. Prerequisites: BIOL 2511 and BIOL 2512.

**BIOL 4517 Serology Laboratory (1)** A combined immunology, hematology, and virology laboratory emphasizing cellular components and identification and differentiation by technological methodologies. Corequisite: BIOL 3413 or BIOL 4516. An additional fee is assessed for this course.

**BIOL 4520 Secondary Field Experience II\* (1)** Experiences in the secondary school classroom that provide the teacher candidate more advanced involvement in the teaching-learning process. Prerequisites: admission to Teacher Education Program; should be taken concurrently with BIOL 4794 during the Professional Semester. \*Not available for graduate credit.

**BIOL 4709 Plant Ecology (4: 2 lecture, 2 lab)** Concepts and methods pertaining to the collection and analysis of ecological data. Fundamental principles of interactions between plants and their environment will be addressed. Prerequisites: BIOL 1111; BIOL 1112; BIOL 2020; BIOL 3711 or equivalent; or instructor's consent.

**BIOL 4711 Animal Ecology (4: 2 lecture, 2 lab)** Ecological principles and concepts pertaining to populations, communities, and ecosystems with special emphasis on animals. Both field work with local examples and laboratory work are part of this course. Prerequisites: CHEM 1131 and 20 semester hours of biology including BIOL 1111 and 1112. An additional fee is associated with this course.

**BIOL 4722 Conservation Biology (4: 2 lecture, 2 lab)** This is a synthetic course applying the multidisciplinary approaches of ecology, biogeography, evolution, genetics and economics to the global biodiversity crisis. Prerequisites: BIOL 1111, BIOL 1112, BIOL 2020, BIOL 2511.

**BIOL 4794 Methods of Teaching Science\* (2)** Prerequisites: admission to Teacher Education Program; double majors must take a methods course for each major; methods should be taken concurrently with BIOL 4520 during the Professional Semester. \*Not available for graduate credit.

**BIOL 4810 Curriculum Development in Biological Science (2)** Classroom techniques for teaching life science to junior and senior high school students. Historical development and changes to current programs of life science discussed. Only offered Fall semester. Prerequisite: Admission to Teacher Education Program. Corequisite: BIOL 4811.

**BIOL 4811 Investigative Laboratory (2)** Investigative laboratory activities related to life science teaching in junior and senior high school. Problem in investigative biology to be conducted and a paper written. Only offered Fall semester. Prerequisite: Admission to Teacher Education Program. Corequisite: BIOL 4810.

**BIOL 4953 Ecology Field Course (1-6)\*** Advanced field methods and analysis of the physical, chemical, and ecological aspects of diverse marine ecosystems. On a rotating basis, the field course may focus on marine, northern temperate woods, and alpine systems. *May be repeated for credit as topics vary.* Prerequisite: consent of instructor. \*Not available for graduate credit.

### Integrative Studies Capstone

**ICAP 4222 The Biological Perspective\* (3)** An examination of current issues from a biological perspective including the impact of biology on history and culture. For biology majors. Prerequisite: 22 semester hours of biology. \*Not available for graduate credit.

**Earth Science**

**EARTH SCIENCE**

Major, Bachelor of Arts Degree  
(42-386)

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

- Collect, analyze and apply information to solve problems (managing information)
- Use various laboratory techniques and/or instruments with understanding, accuracy, precision and safety. (technology)
- Think logically within an earth science framework and be receptive to new ideas and concepts. (higher-order thinking)
- Use the language and concepts of earth science to communicate effectively in oral and written form, to follow instructions precisely and to function in independent and collaborative settings. (communicating and interacting)
- Exhibit the ethical use of knowledge, materials and procedures that demonstrates an impact on society. (valuing)

	Sem. Hours
<b>MAJOR REQUIREMENTS</b> . . . . .	<b>39</b>
EASC 1004 Intro. to the Sciences: Geology . . . . .	4
EASC 3010 Environmental Geology . . . . .	3
EASC 3110 Structural Geology . . . . .	4
EASC 2200 Historical Geology . . . . .	4
EASC 3501 Invertebrate Paleontology . . . . .	4
Elective from the following . . . . .	4
EASC 3320 Mineralogy . . . . .	4
EASC 4301 Minerals & Rocks . . . . .	4
Elective from the following . . . . .	3
GEOG 4210 Remote Sensing and Image Inter. . . . .	3
GEOG 4220 Geographic Info. Systems I . . . . .	3
*AGRI 2330 Intro. to Soil Science . . . . .	3
Electives in Earth Science . . . . .	13
<b>MINOR REQUIREMENTS</b> . . . . .	<b>18-25</b>
<b>GENERAL EDUCATION REQUIREMENTS</b> (pages 34-43) In the major, EASC 1004 fulfills 4 s.h. of Div. II A; the Modern Language Requirement fulfills 3 s.h. of Div. II C . . . . .	
	41
<b>MODERN LANGUAGE REQUIREMENT</b> . . . . .	<b>3-9</b>
Refer to Bachelor's Degree Requirements section for fulfillment options.	
<b>FREE ELECTIVES</b> . . . . .	<b>10-23</b>
<b>MINIMUM TOTAL</b> . . . . .	<b>124</b>
*Course has prerequisite(s) not listed in the program.	

**EARTH SCIENCE**

Functional Major, Bachelor of Science in Education Degree

Unified science certification to teach any of the beginning sciences (i.e., Biology I, Chemistry I) etc. and all levels of earth science, grades 9-12

(41-488)

The graduate with a Earth Science Functional Major, Bachelor of Science in Education Degree will use the knowledge and skills obtained in the program to:

- Challenge the Praxis and C-BASE exams allowing them to be licensed as teachers upon successful completion of these exams.
- Be qualified for teacher certification in the state of Missouri.
- Be qualified to apply for graduate programs in education.

	Sem. Hours
<b>FUNCTIONAL MAJOR REQUIREMENTS</b> . . . . .	<b>56</b>
EASC 1004 Intro. to the Sciences: Geology . . . . .	4
EASC 2200 Historical Geology . . . . .	4
EASC 3010 Environmental Geology . . . . .	3
EASC 3111 Geomorphology . . . . .	3
EASC 3112 Astronomy . . . . .	3
EASC 3114 Meteorology . . . . .	3
EASC 3501 Invertebrate Paleontology . . . . .	4
EASC 3320 Mineralogy, 4 or	
EASC 4301 Minerals & Rocks, 4 . . . . .	4

BIOL 1004 Intro. to the Sciences: Ecology . . . . .	4
BIOL 1111 Biology I . . . . .	4
CHEM 1131 General Chemistry I . . . . .	5
PHYS 1101 College Physics I, 4 or	
PHYS 1104 Intro. to the Sciences: Physics, 4 or	
PHYS 2121 University Physics I, 5 . . . . .	4-5
T&OE 2000 Technology & Change . . . . .	3

Electives (selected from courses listed below. Hours of electives taken must bring the total in the major to 56 hours 7-8

UNIFIED SCIENCE CERTIFICATION - The starred (\*) courses must be taken as part of the elective credits for Unified Science certification in earth science - certification to teach any of the beginning sciences (i.e., Chemistry I, Physics I, etc.) and all levels of earth science, grades 9-12.

*CHEM 1132 General Chemistry II . . . . .	5
CHEM 2650 Elem. Organic & Biochemistry . . . . .	5
CHEM 3111 Interm. Inorganic Chemistry . . . . .	4
CHEM 4910 Research in Chemistry . . . . .	1-2
*BIOL 1112 Biology II . . . . .	4
BIOL 2511 Genetics . . . . .	4
BIOL 2512 Cell Biology . . . . .	3
BIOL 3712 Field Natural History . . . . .	4
EASC 3110 Structural Geology . . . . .	4
EASC 3115 Oceanography . . . . .	3
EASC 2100 Engineering Geology, 4 or	
EASC 3400 Groundwater Geology, 3 . . . . .	3-4
EASC 4010 Special Problems in Geology . . . . .	1-2
*PHYS 1102 College Physics II, 4 or	
*PHYS 2122 University Physics II, 5 . . . . .	4-5
PHYS 3511 Modern Physics I . . . . .	3
PHYS 3611 Optics . . . . .	3
PHYS 4312 Electricity & Magnetism . . . . .	3
PHYS 3080 Adv. Physics Laboratory . . . . .	1-2

**MINOR NOT REQUIRED**

**GENERAL EDUCATION REQUIREMENTS** (pages 34-43) In the functional major, EASC 1004 fulfills 4 s.h. of Div. II A; two courses in biology are allowed to fulfill 3 s.h. of Div. II A; T&OE 2000 fulfills 2 s.h. of Div. II A; in the professional education requirements, ICAP 4468 fulfills 3 s.h. of Div. IV B . . . . .

HIST 1350 Div. II B or	
HIST 1351 Div. II B (required) . . . . .	.3
POLS 1510 Div. II B (required) . . . . .	.3
PSY 4230 Psy. of Adolescence . . . . .	.3

Secondary Education students will be allowed to substitute PSY 4230 to fulfill 3 s.h. in Div. III.

**PROFESSIONAL EDUCATION REQUIREMENTS** (page 115) . . . . . 28

**MINIMUM TOTAL** . . . . . 124

**EARTH SCIENCE**

Minor for a Bachelor's Degree

UCM does not confer teacher certification for this minor. (477)

	Sem. Hours
<b>MINOR REQUIREMENTS</b> . . . . .	<b>20</b>
EASC 1004 Intro. to the Science: Geology . . . . .	4
EASC 2200 Historical Geology . . . . .	4
Electives in earth science . . . . .	12

**GENERAL EDUCATION REQUIREMENTS** (pages 34-43) In the minor, EASC 1004 fulfills 4 s.h. of Div. II A

**GEOLOGY****Functional Major, Bachelor of Science Degree (43-388)**

The graduate with a Functional Major Bachelor of Science degree in Geology will use the knowledge and skills obtained in the program to:

- Collect, analyze and apply information to solve problems. (managing information)
- Use various field and laboratory techniques and/or instruments with understanding, accuracy, precision and safety. (technology)
- Think logically and apply knowledge within a geological framework to develop maps and cross-sections of the Earth. Be receptive to new ideas and concepts. (higher-order thinking)
- Use the language and concepts of geology to communicate effectively in oral and written form, to follow detailed instructions and to function in independent and collaborative settings. (communicating and interacting)
- Exhibit the ethical use of knowledge, materials and procedures that demonstrates an impact on society. (valuing)

Sem. Hours

**FUNCTIONAL MAJOR REQUIREMENTS . . . . . 68-75**

EASC 1004	Intro. to the Sciences: Geology . . . . .	4
EASC 2200	Historical Geology . . . . .	4
EASC 3110	Structural Geology . . . . .	4
EASC 3320	Mineralogy . . . . .	4
EASC 4325	Petrology . . . . .	4
EASC 4420	Sedimentary Petrology & Stratigraphy . . . . .	5
GEOG 4220	Geographic Information Systems I . . . . .	3
CHEM 1131	General Chemistry I . . . . .	5
CHEM 1132	General Chemistry II . . . . .	5

Summer field course at an approved university . . . . . 6

Elect three courses from the following . . . . . 9-11

EASC 2100	Engineering Geology . . . . .	4
EASC 3010	Environmental Geology . . . . .	3
EASC 3111	Geomorphology . . . . .	3
EASC 3400	Groundwater Geology . . . . .	3
EASC 3501	Invertebrate Paleontology . . . . .	4

Electives from the following . . . . . 8-10

PHYS 1101	College Physics I . . . . .	4
PHYS 1102	College Physics II . . . . .	4
or		
PHYS 2121	University Physics I . . . . .	5
PHYS 2122	University Physics II . . . . .	5

Electives from the following choices. . . . . 7-10

## Choice 1

recommended for those students planning to attend graduate school:

MATH 1151	Calc. & Analytical Geometry I . . . . .	5
MATH 1152	Calc. & Analytical Geometry II . . . . .	5

## Choice 2

MATH 1111	College Algebra. . . . .	3
MATH 1112	College Trigonometry . . . . .	2
MATH 1101	Intermediate Algebra . . . . .	2

or

MATH 1150	Pre-calculus Mathematics . . . . .	4
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**MINOR NOT REQUIRED****GENERAL EDUCATION REQUIREMENTS (pages 34-43)** In the functional

major, MATH electives may be allowed to fulfill 3 s.h. of Div. I C; EASC 1004 fulfills 4 s.h. of Div. II A; two chemistry courses are allowed to fulfill 3 s.h. of Div. II A. . . . . 38

**FREE ELECTIVES . . . . . 11-18****MINIMUM TOTAL . . . . . 124**

**EASC 1004 Introduction to the Sciences: Geology (4)** Fundamental principles of the natural sciences as applied to the Earth. Topics covered include volcanoes, earthquakes, plate tectonics, landscape formation by streams, glaciers, and underground water. Laboratory included. An additional fee is associated with this course.

**EASC 2100 Engineering Geology (4)** The study of physical geology as applied in engineering practice. Emphasis is on surficial geology and soils, employing both field and laboratory investigation methods. Topics include refraction, seismic and electrical resistivity surveys, hydrogeology, waste disposal, slope stability, engineering properties of soil and rock, mapping, site characterization, and report writing. Prerequisite: EASC 1004 or equivalent or consent of instructor. An additional fee is associated with this course.

**EASC 2200 Historical Geology (4)** The history of the earth will be studied in light of shifting continents, advances and retreats of seas, periods of mountain building and the evolution of life through the great expanse of geologic time. Laboratory will include local and regional field trips. Prerequisite: EASC 1004. An additional fee is associated with this course.

**EASC 3010 Environmental Geology (3)** The relationships between humans and their geological surroundings with an emphasis on environmental problems. The main topics are mineral and energy resources, population, earthquake and volcanic hazards, medical problems related to the environment, floods, and coastal processes.

**EASC 3110 Structural Geology (4)** Structures of the Earth on maps, cross-sections, and aerial photographs and in field exercises. Folding and faulting are emphasized. Also discussed are plate tectonic mechanisms that are responsible for Earth structures. Prerequisite: EASC 1004. An additional fee is associated with this course.

**EASC 3111 Geomorphology (3)** The processes which shape the Earth's surface and form surficial deposits. The interaction of people with their environment is emphasized. Topics include soil formation, engineering properties of soil and rock, surface water, ground water, and environmental planning. Prerequisite: EASC 1004 or EASC 3010.

**EASC 3112 Astronomy (3)** The fundamental principles and theories pertaining to planetary astronomy, stellar evolution, and origin of the galaxies. Observational techniques are discussed and night-time viewing sessions are held using departmental telescopes.

**EASC 3114 Meteorology (3)** Principles and theories of weather, climate, and other atmospheric phenomena. Included is the study of energy exchanges, winds, cloud types, precipitation forms, severe weather, and the generation and movement of tornadoes and other cyclonic storms.

**EASC 3115 Oceanography (3)** Beginning course intended for students with a limited science background. Relationship of continents and ocean basins, sea floor spreading, waves, tides, currents, circulation of the atmosphere and ocean, marine biology and geology, and global environmental implications.

**EASC 3213 Quaternary and Glacial Geology (3)** Glacier formation and movement, glacial erosion and deposition, changes in sea level and in river channels, climate change and the causes of the ice ages, and changes in northern hemisphere animal and plant populations during the past two million years. Prerequisite: EASC 1004.

**EASC 3320 Mineralogy (4)** An introduction to crystallography and a systematic study of the mineral groups including the native elements, sulfides, sulfates, oxides, halides, carbonates, and silicates. Laboratory work stresses identification by physical and chemical properties. Prerequisite: EASC 1004. An additional fee is associated with this course.

**EASC 3400 Groundwater Geology (3)** Principles of how fluids move within the crust of the Earth. Groundwater concepts are reviewed and applied to modern day resource and conservation problems. Prerequisites: EASC 1004, PHYS 1101 and MATH 1111.

**EASC 3501 Invertebrate Paleontology (4)** Principles and methods used in collecting, identifying, and utilizing fossils to determine the distribution and environment of ancient lands and seas. Further, fossils will be studied as tools of geologic time determination. Laboratory will include local and regional field trips. Prerequisite: EASC 2200 or consent of instructor. An additional fee is associated with this course.

**EASC 4010 Special Problems in Geology (1-3)** Individual work under supervision of a staff member. Problems may be undertaken in any area of geology. *May be repeated for a maximum of 9 semester hours.* Prerequisite: adequate preparation in that field and consent.

**EASC 4301 Minerals and Rocks (4)** The origin and classification of minerals and rocks in a course designed primarily for teachers of earth science. Methods and techniques of identification are stressed. Prerequisite: EASC 1004. An additional fee is associated with this course.

**EASC 4320 Geochemistry (3)** Application of chemical principles to the study of earth and environmental systems. Topics include origin and distribution of elements, stable and radiogenic isotopes, thermodynamics, aqueous and environmental geochemistry, and geochemical cycles. Prerequisites: EASC 1004 and EASC 3320.

**EASC 4325 Petrology (4)** Igneous and metamorphic rocks. Includes consideration of processes of formation and identification of rock types. Prerequisite: EASC 3320. An additional fee is associated with this course.

**EASC 4420 Sedimentary Petrology and Stratigraphy (5)** The description and classification of sedimentary rocks and the principles of stratigraphy. Laboratory exercises will focus on hand specimen petrology and subsurface stratigraphic analysis. Field work will deal with measured stratigraphic sections. Prerequisite: EASC 3320. An additional fee is associated with this course.

**EASC 4500 Fossils of Missouri (3)** Emphasis on collecting and identifying fossils in order to prepare teachers for teaching the fundamental aspects of common fossils from Missouri. Prerequisite: EASC 1004.

## Chemistry and Physics

### Chemistry

In the section of Chemistry, the second digit in the course number stands for the following: 0-Unclassified, 1-Inorganic, 2-Analytical, 3-Organic, 4-Biochemistry, 5-Physical, 6-Organic and Biochemistry, 9-Research and Special Problems.

#### Chemistry Statement of Policy

All junior and senior chemistry majors are required to attend oral presentations by students who are enrolled in CHEM 4900 and CHEM 4910.

Prior to student teaching, all Bachelor of Science in Education Chemistry Functional majors are required to serve as a lab assistant or lab preparation assistant for one semester in partial fulfillment of CHEM 4900.

**\*Students must attend the first scheduled lab period to avoid being dropped from the lab to accommodate students on the wait list.**

#### Accreditation

The Chemistry programs are accredited by the American Chemical Society. The American Chemical Society is located at 1155 Sixteenth St, N.W., Washington, DC 20036; phone 800-227-5558; webpage <http://www.chemistry.org>.

### CHEMISTRY

#### Major, Bachelor of Arts Degree

(42-391)

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

- Collect, analyze and apply information to solve problems (managing information & higher-order thinking).
- Use various laboratory techniques and/or instruments with understanding, accuracy, precision and safety (technology).
- Think logically within a chemistry framework and be receptive to new ideas and concepts (higher-order thinking).
- Use the language and concepts of chemistry to communicate effectively in oral and written form, to follow detailed instructions, and to function in independent and collaborative settings (communicating and interacting).
- Exhibit the ethical use of knowledge, materials and procedures that demonstrate an impact on society (valuing).

Sem. Hours

#### MAJOR REQUIREMENTS . . . . . 38-39

CHEM 1131	General Chemistry I . . . . .	5
CHEM 1132	General Chemistry II . . . . .	5
CHEM 3111	Intermediate Inorganic Chemistry . . . . .	4
CHEM 3212	Quantitative Analysis . . . . .	3
CHEM 3341	Organic Chemistry I . . . . .	4
CHEM 3342	Organic Chemistry II . . . . .	4
CHEM 3500	Elements of Physical Chemistry . . . . .	4
CHEM 3920	Communication Skills in Chem. . . . .	2
CHEM 4421	Biochemistry . . . . .	4
Elective from the following . . . . .		3-4
*CHEM 4111	Advanced Inorganic Chemistry . . . . .	.4
*CHEM 4231	Instrumental Analysis . . . . .	.4
*CHEM 4313	Modern Organic Analysis . . . . .	.4
CHEM 4910	Research in Chemistry . . . . .	3-4

#### MINOR REQUIREMENTS . . . . . 18-25

**GENERAL EDUCATION REQUIREMENTS** (pages 34-43) In the major, CHEM 1131 and CHEM 1132 are allowed to fulfill 4 s.h. of Div. II A; the Modern Language Requirement fulfills 3 s.h. of Div. II C . . . . . 41

#### MODERN LANGUAGE REQUIREMENT . . . . . 3-9

Refer to Bachelor's Degree Requirements section for fulfillment options.

#### FREE ELECTIVES . . . . . 10-24

#### MINIMUM TOTAL . . . . . 124

\*Course has prerequisite(s) not listed in the program.



**CHEMISTRY****Functional Major, Bachelor of Science Degree**

(43-393)

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

- Collect, analyze and apply information to solve problems (managing information & higher-order thinking).
- Use various laboratory techniques and/or instruments with understanding, accuracy, precision and safety (technology).
- Think logically within a chemistry framework and be receptive to new ideas and concepts (higher-order thinking).
- Use the language and concepts of chemistry to communicate effectively in oral and written form, to follow detailed instructions, and to function in independent and collaborative settings (communicating and interacting).
- Exhibit the ethical use of knowledge, materials and procedures that demonstrate an impact on society (valuing).

Sem. Hours

**FUNCTIONAL MAJOR REQUIREMENTS . . . . . 65-69**

CHEM 1131	General Chemistry I . . . . .	5
CHEM 1132	General Chemistry II . . . . .	5
CHEM 3111	Intermediate Inorganic Chemistry . . . . .	4
CHEM 3212	Quantitative Analysis . . . . .	3
CHEM 3341	Organic Chemistry I . . . . .	4
CHEM 3342	Organic Chemistry II . . . . .	4
CHEM 3920	Communication Skills in Chemistry . . . . .	2
CHEM 4231	Instrumental Analysis . . . . .	4
CHEM 4421	Biochemistry . . . . .	4
CHEM 4531	Physical Chemistry I . . . . .	4
CHEM 4532	Physical Chemistry II . . . . .	4
CHEM 4910	Research in Chemistry . . . . .	4
PHYS 1101	College Physics I . . . . .	4
PHYS 1102	College Physics II . . . . .	4
MATH 1151	Calculus & Analytic Geometry I . . . . .	5
MATH 1152	Calculus & Analytic Geometry II . . . . .	5

\*Elective from the following . . . . . 0-4

CHEM 4111	Advanced Inorganic Chemistry . . . . .	4
CHEM 4313	Modern Organic Analysis . . . . .	4

\*Four semester hours required for ACS-CPT approved degree.

**MINOR NOT REQUIRED**

**GENERAL EDUCATION REQUIREMENTS** (pages 34-43) In the functional major, MATH 1151 fulfills 3 s.h. of Div. I C; CHEM 1131, CHEM 1132, PHYS 1101 and PHYS 1102

are allowed to fulfill 7 s.h. of Div. II A) . . . . . 38

**FREE ELECTIVES . . . . . 17-21****MINIMUM TOTAL . . . . . 124****CHEMISTRY****Functional Major, Bachelor of Science in Education Degree**

[Certification to teach chemistry in grades 9-12]

(41-485)

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

- Collect, analyze and apply information to solve problems (managing information & higher-order thinking).
- Use various laboratory techniques and/or instruments with understanding, accuracy, precision and safety (technology).
- Think logically within a chemistry framework and be receptive to new ideas and concepts (higher-order thinking).
- Use the language and concepts of chemistry to communicate effectively in oral and written form, to follow detailed instructions, and to function in independent and collaborative settings (communicating and interacting).
- Exhibit the ethical use of knowledge, materials and procedures that demonstrate an impact on society (valuing).
- Manage a secondary education program in chemistry that has a laboratory emphasis, with confidence, enthusiasm, efficiency, and safety.

**FUNCTIONAL MAJOR REQUIREMENTS . . . . . 60**

CHEM 1131	General Chemistry I . . . . .	5
CHEM 1132	General Chemistry II . . . . .	5
CHEM 3111	Intermediate Inorganic Chemistry . . . . .	4
CHEM 3212	Quantitative Analysis . . . . .	3
CHEM 3341	Organic Chemistry I . . . . .	4
CHEM 3500	Elements of Physical Chemistry . . . . .	4
CHEM 4421	Biochemistry . . . . .	4
CHEM 4900	Chem. Research for Teachers . . . . .	1-2
BIOL 1003	Intro. to the Sciences: Ecology . . . . .	3
BIOL 1111	Biology I . . . . .	4
EASC 1004	Intro. to the Sciences: Geology . . . . .	4
T&OE 2000	Technology & Change . . . . .	3
PHYS 1101	College Physics I, 4 or	
PHYS 2121	University Physics I, 5 . . . . .	4-5

Electives in science from following list. Hours of electives

must bring the total in the major to 60 hours. 10-12

**UNIFIED SCIENCE CERTIFICATION** - The starred (\*) courses must be taken as part of the elective credits for Unified Science certification in chemistry - certification to teach any of the beginning sciences (i.e., Biology I, Physics I, etc.) and all levels of chemistry, grades 9-12.

CHEM 3342	Organic Chemistry II . . . . .	4
CHEM 3920	Comm. Skills in Chemistry . . . . .	2
CHEM 4231	Instrumental Analysis . . . . .	4
CHEM 4910	Research in Chemistry . . . . .	1-2
*BIOL 1112	Biology II . . . . .	4
BIOL 2511	Genetics . . . . .	3
BIOL 2512	Cell Biology . . . . .	3
BIOL 3712	Field Natural History . . . . .	4
EASC 3010	Environmental Geology . . . . .	3
EASC 3112	Astronomy . . . . .	3
*EASC 3114	Meteorology . . . . .	3
EASC 3320	Mineralogy . . . . .	4
*EASC 4010	Special Problems in Geology . . . . .	1
*PHYS 1102	College Physics II, 4 or	
*PHYS 2122	University Physics II, 5 . . . . .	4-5
PHYS 3080	Advanced Physics Lab. . . . .	1-2
PHYS 3511	Modern Physics I . . . . .	3
PHYS 3611	Optics . . . . .	3
PHYS 4312	Electricity & Magnetism . . . . .	3

**MINOR NOT REQUIRED**

**GENERAL EDUCATION REQUIREMENTS** (pages 34-43) In the functional major, EASC 1004 fulfills 4 s.h. of Div. II A;

BIOL 1003 fulfills 3 s.h. of Div. II A; T&amp;OE 2000 fulfills 2 s.h.

of Div. II A; in the professional education requirements,

ICAP 4468 fulfills 3 s.h. of Div. IV B . . . . . 36

HIST 1350	Div. II B or	
HIST 1351	Div. II B (required) . . . . .	3
POLS 1510	Div. II B (required) . . . . .	3
PSY 4230	Psy. of Adolescence . . . . .	3

Secondary Education students will be allowed to substitute

PSY 4230 to fulfill 3 s.h. of Div. III.

**PROFESSIONAL EDUCATION REQUIREMENTS** (page 115)

CHEM 4011 (3 s.h.) fulfills 2 s.h. of Special Methods in major field

and 1 s.h. of Secondary Field Experience II in major field . . . . . 28

**MINIMUM TOTAL . . . . . 124****CHEMISTRY****Minor for a Bachelor's Degree**

UCM does not confer teacher certification for this minor.

(478)

Sem. Hours

**MINOR REQUIREMENTS . . . . . 21**

CHEM 1131	General Chemistry I . . . . .	5
CHEM 1132	General Chemistry II . . . . .	5
CHEM 3212	Quantitative Analysis . . . . .	3
CHEM 3341	Organic Chemistry I . . . . .	4
CHEM 3342	Organic Chemistry II . . . . .	4

**GENERAL EDUCATION REQUIREMENTS** (pages 34-43) In the minor, CHEM 1131 and CHEM 1132 are allowed to fulfill 4 s.h. of Div. II A.

**FORENSIC SCIENCE**

Minor for a Bachelor's Degree  
(491)

Sem. Hours

**MINOR REQUIREMENTS** . . . . . 24-27

**Biology Major Track** . . . . . 26-27

BIOL	2010	Human Biology, 3 or	
BIOL	2401	Anatomy & Physiology I, 4	3-4
BIOL	3410	Forensic Science	4
CHEM	1131	Chemistry I	5
CHEM	1132	Chemistry II	5
CJ	1000	Intro. To Criminal Justice	3
CJ	3400	Criminal Investigation	3
CJ	4302	Criminal Evidence	3

**Chemistry Major Track** . . . . . 24-25

BIOL	1111	Biology I	4
BIOL	2010	Human Biology, 3 or	
BIOL	2401	Anatomy & Physiology I, 4	3-4
BIOL	2511	Genetics	4
BIOL	3410	Forensic Science	4
CJ	1000	Intro. To Criminal Justice	3
CJ	3400	Criminal Investigation	3
CJ	4302	Criminal Evidence	3

**Criminal Justice Major Track** . . . . . 25-26

BIOL	1111	Biology I	4
BIOL	2010	Human Biology, 3 or	
BIOL	2401	Anatomy & Physiology I, 4	3-4
BIOL	2511	Genetics	4
BIOL	3410	Forensic Science	4
CHEM	1131	Chemistry I	5
CHEM	1132	Chemistry II	5

Criminal Justice majors must take CJ 3400 and CJ 4302 as departmentally approved electives in the major.

This program is also listed in the Biology department

**CHEM 1103 Introduction to the Sciences: Chemistry (3)** Beginning course emphasizing properties of inorganic materials, for those needing no additional chemical training. Laboratory not included. Not available to those with credit in CHEM 1104.

**CHEM 1104 Introduction to the Sciences: Chemistry (4)** Beginning course emphasizing properties of inorganic materials, for those needing no chemical training beyond CHEM 2650. Laboratory included. Not available to those with credit in CHEM 1103. An additional fee is associated with this course.

**CHEM 1131 General Chemistry I (5)** A first course in chemistry for those expecting to major or minor in chemistry, teach chemistry, or take pre-professional curricula. Includes laboratory experience. Prerequisite: a score of 17 on the mathematics section of the ACT, or 550 on the mathematics section of the SAT, or a passing score on a mathematics examination approved by the Department of Chemistry and Physics or a grade of C or better in MATH 1111. An additional fee is associated with this course.

**CHEM 1132 General Chemistry II (5)** A continuation of CHEM 1131. Includes laboratory experience. Prerequisite: CHEM 1131. An additional fee is associated with this course.

**CHEM 2650 Elementary Organic and Biochemistry (5)** A brief introductory course in organic chemistry and fundamental concepts of biochemistry with emphasis on physiological, nutritional, and comparative aspects. Includes laboratory experience. May not be used for credit in chemistry major and minor programs on the Bachelor of Arts and Bachelor of Science degrees. Prerequisite: CHEM 1104 or CHEM 1132. An additional fee is associated with this course.

**CHEM 3111 Intermediate Inorganic Chemistry (4)** An intermediate level inorganic course with emphasis on main group and organometallic chemistry. Laboratory included. Prerequisites: CHEM 1132 and CHEM 2650, or CHEM 3342. An additional fee is associated with this course.

**CHEM 3212 Quantitative Analysis (3)** Application of chemical principles to the separation and determination of elements and compounds. Laboratory practice in basic techniques of gravimetric, volumetric, and instrumental analysis. Prerequisite: CHEM 1132. An additional fee is associated with this course.

**CHEM 3341 Organic Chemistry I (4)** A lecture and laboratory course in the chemistry of carbon compounds. Prerequisite: CHEM 1132 or concurrently. An additional fee is associated with this course.

**CHEM 3342 Organic Chemistry II (4)** A continuation of CHEM 3341. Prerequisite: CHEM 3341. An additional fee is associated with this course.

**CHEM 3500 Elements of Physical Chemistry (4)** Development of principles and conceptual models of physical chemistry with minimal mathematical rigor with emphasis on practical applications and laboratory experience. Prerequisites: MATH 1111 or MATH 1150 or MATH 1151; CHEM 3341.

**CHEM 3920 Communication Skills in Chemistry (2)** Techniques for searching the chemical literature, writing scientific reports and papers, and making effective oral presentations using audiovisual aids to effectively convey technical ideas and information. Prerequisite: a minimum of 17 semester hours of chemistry. Students are encouraged to enroll during their junior year.

**CHEM 4010 Special Topics in Chemistry (1-3)** Topics of contemporary significance not given in-depth coverage in regularly offered courses. *May be repeated as the topic is changed.* Prerequisite: consent of instructor.

**CHEM 4011 Methods of Teaching Physical Science\* (3)** Provides the teacher education candidate with skills and resources for the teaching of science. Students will learn a variety of strategies for both laboratory and classroom instruction. Prerequisite: Admission to Teacher Education Program. \*Not available for graduate credit.

**CHEM 4111 Advanced Inorganic Chemistry (4)** An advanced study of inorganic compounds with a focus on the transition elements, current issues and modern laboratory techniques. Prerequisites: CHEM 3111; CHEM 4532 or concurrently. An additional fee is associated with this course.

**CHEM 4231 Instrumental Analysis (4)** A study, including applications, of instrumental methods of chemical analysis. Prerequisites: PHYS 2122, PHYS 2124, or PHYS 1102 and CHEM 3212. An additional fee is associated with this course.

**CHEM 4313 Modern Organic Analysis\* (4)** A lecture and laboratory course emphasizing the instrumentation used for physical organic measurements and the identification of organic compounds. Prerequisites: CHEM 4532 or concurrently and CHEM 3342. An additional fee is associated with this course. \*Not available for graduate credit.

**CHEM 4421 Biochemistry\* (4)** A study, including laboratory experience, of the chemical composition of living matter and the chemistry of life processes. Topics include proteins, carbohydrates, lipids, nucleic acids, and metabolism. Prerequisite: CHEM 3342. An additional fee is associated with this course. \*Not available for graduate credit.

**CHEM 4531 Physical Chemistry I (4)** Kinetic-molecular theory of gases, thermodynamics, chemical equilibria, and chemical kinetics. Laboratories are project-based and include calorimetry and spectroscopy. Prerequisites: PHYS 2122, PHYS 2124, or PHYS 1102, AMTH 1151 and CHEM 3212. An additional fee is associated with this course.

**CHEM 4532 Physical Chemistry II (4)** Quantum mechanics, atomic and molecular structure, spectroscopy, electrical and magnetic properties of molecules. Laboratories include atomic and molecular spectroscopy, molecular modeling, and mathematical modeling. Prerequisite: CHEM 4531.

**CHEM 4900 Chemical Research for Teachers\* (1-2)** Faculty supervised project terminating in a written and oral report. One semester assisting in or preparing materials for a chemistry laboratory course, prior to student teaching, also recommended. Prerequisites: CHEM 3212 and consent of instructor. \*Not available for graduate credit.

**CHEM 4910 Research in Chemistry (1-5)** Individual work on a chemical research project under supervision of a staff member. Project will terminate in a written and oral presentation. *May be repeated for a maximum of 10 semester hours.* Prerequisite: Consent of instructor and department.

**CHEM 4911 Special Problems in Chemistry (1-3)** Individual work under supervision of a staff member. *May be repeated for a maximum of 3 semester hours.* Prerequisite: consent.

### Physics

In the section of Physics, the second digit in the course number stands for the following: 0-Laboratory and Unclassified, 1-General, 2-Mechanics, 3-Electricity, 4-Thermodynamics, 5-Modern Physics, 6-Light and Sound, 7-Particle, 8-Electronics, 9-Research and Special Problems.

### PHYSICS

#### Functional Major, Bachelor of Arts Degree (42-396)

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

- Collect, analyze and apply information to solve problems (managing information & higher-order thinking).
- Use various laboratory techniques and/or instruments with understanding, accuracy, precision and safety (technology).
- Think logically within a physics framework and be receptive to new ideas and concepts (higher-order thinking).
- Use the language and concepts of physics to communicate effectively in oral and written form, to follow detailed instructions, and to function in independent and collaborative settings (communicating and interacting).
- Exhibit the ethical use of knowledge, materials and procedures that demonstrate an impact on society (valuing).

Sem. Hours

#### FUNCTIONAL MAJOR REQUIREMENTS . . . . . 64-65

PHYS 2121	University Physics I . . . . .	5
PHYS 2122	University Physics II . . . . .	5
PHYS 3012	Elec. Measurements Laboratory . . . . .	2
PHYS 3080	Advanced Physics Lab . . . . .	2-3
PHYS 3211	Analytical Mechanics I . . . . .	3
PHYS 3311	Electric Circuit Theory . . . . .	3
PHYS 3511	Modern Physics I . . . . .	3
PHYS 4212	Analytical Mechanics II . . . . .	3
PHYS 4411	Thermodynamics . . . . .	3
CHEM 1131	General Chemistry I . . . . .	5
CHEM 1132	General Chemistry II . . . . .	5
MATH 1151	Calculus & Analytic Geometry I . . . . .	5
MATH 1152	Calculus & Analytic Geometry II . . . . .	5
MATH 2153	Calculus & Analytic Geometry III . . . . .	3
MATH 3151	Differential Equations . . . . .	3
CS 1100	Computer Programming I . . . . .	3

Departmentally approved electives from the following . . . . . 6

PHYS 2020	Analytical Methods for Physics and Engineering . . . . .	3
PHYS 3512	Modern Physics II . . . . .	3
PHYS 4312	Electricity & Magnetism . . . . .	3
PHYS 4512	Intro. to Quantum Mechanics . . . . .	3
PHYS 4513	Solid State Physics . . . . .	3
PHYS 3611	Optics . . . . .	3
PHYS 4711	Atomic & Nuclear Physics . . . . .	3

Students whose high school preparation is inadequate should take PHYS 1101 during their first year at UCM.

#### MINOR NOT REQUIRED

**GENERAL EDUCATION REQUIREMENTS** (pages 34-43) In the functional major, MATH 1151 fulfills 3 s.h. of Div. I C; PHYS 2121, PHYS 2122, CHEM 1131, and CHEM 1132 are allowed to fulfill 7 s.h. of Div. II A; the Modern Language Requirement fulfills 3 s.h. of Div. II C . . . . . 35

**MODERN LANGUAGE REQUIREMENT** Refer to Bachelor's Degree

Requirements section for fulfillment options. . . . . 3-9

**FREE ELECTIVES** . . . . . 15-22

**MINIMUM TOTAL** . . . . . 124

### PHYSICS

#### Functional Major, Bachelor of Science Degree (43-397)

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

- Collect, analyze and apply information to solve problems (managing information & higher-order thinking).
- Use various laboratory techniques and/or instruments with understanding, accuracy, precision and safety (technology).
- Think logically within a physics framework and be receptive to new ideas and concepts (higher-order thinking).
- Use the language and concepts of physics to communicate effectively in oral and written form, to follow detailed instructions, and to function in independent and collaborative settings (communicating and interacting).
- Exhibit the ethical use of knowledge, materials and procedures that demonstrate an impact on society (valuing).

Sem. Hours

#### FUNCTIONAL MAJOR REQUIREMENTS . . . . . 67-68

PHYS 2121	University Physics I . . . . .	5
PHYS 2122	University Physics II . . . . .	5
PHYS 3012	Elec. Measurements Laboratory . . . . .	2
PHYS 3080	Advanced Physics Lab . . . . .	2-3
PHYS 3211	Analytical Mechanics I . . . . .	3
PHYS 3311	Electric Circuit Theory . . . . .	3
PHYS 3511	Modern Physics I . . . . .	3
PHYS 3512	Modern Physics II . . . . .	3
PHYS 4212	Analytical Mechanics II . . . . .	3
PHYS 4312	Electricity & Magnetism . . . . .	3
PHYS 4411	Thermodynamics . . . . .	3
CHEM 1131	General Chemistry I . . . . .	5
CHEM 1132	General Chemistry II . . . . .	5
MATH 1151	Calculus & Analytic Geometry I . . . . .	5
MATH 1152	Calculus & Analytic Geometry II . . . . .	5
MATH 2153	Calculus & Analytic Geometry III . . . . .	3
MATH 3151	Differential Equations, 3 or	
MATH 3160	Advanced Applied Calc., 3 . . . . .	3

Departmentally approved electives from the following . . . . . 6

PHYS 2020	Analytical Methods for Physics and Engineering . . . . .	3
PHYS 3611	Optics . . . . .	3
PHYS 4512	Intro. to Quantum Mechanics . . . . .	3
PHYS 4513	Solid State Physics . . . . .	3
PHYS 4711	Atomic & Nuclear Physics . . . . .	3

Students whose high school preparation is inadequate should take PHYS 1101 during their first year at UCM.

#### MINOR NOT REQUIRED

**GENERAL EDUCATION REQUIREMENTS** (pages 34-43) In the functional major, MATH 1151 fulfills 3 s.h. of Div. I C; PHYS 2121, PHYS 2122, CHEM 1131 and CHEM 1132 are allowed to fulfill 7 s.h. of Div. II A . . . . . 38

**FREE ELECTIVES** . . . . . 18-19

**MINIMUM TOTAL** . . . . . 124

### PHYSICS

#### Minor, Bachelor of Science Degree

UCM does not confer teacher certification for this minor. Students choosing this minor must also complete MATH 1151, MATH 1152 and MATH 2153 or equivalents as prerequisites for courses in the minor. (479)

Sem. Hours

**MINOR REQUIREMENTS** . . . . . 21-22

PHYS 2121	University Physics I . . . . .	5
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PHYS 2122	University Physics II	5
PHYS 3080	Advanced Physics Lab	2-3
PHYS 3511	Modern Physics I	3
Departmentally approved electives from the following		
PHYS 3512	Modern Physics II	3
PHYS 3611	Optics	3
PHYS 4312	Electricity & Magnetism	3
PHYS 4411	Thermodynamics	3
PHYS 4512	Intro. to Quantum Mechanics	3
PHYS 4513	Solid State Physics	3
PHYS 4711	Atomic & Nuclear Physics	3

**GENERAL EDUCATION REQUIREMENTS** (pages 34-43) In the minor, PHYS 2121 and PHYS 2122 are allowed to fulfill 4 s.h. of Div. II A

**PHYSICS**

**Functional Major, Bachelor of Science in Education Degree**

Certification to teach physics in grades 9-12 (41-486)

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

- Collect, analyze and apply information to solve problems (managing information & higher-order thinking).
- Use various laboratory techniques and/or instruments with understanding, accuracy, precision and safety (technology).
- Think logically within a physics framework and be receptive to new ideas and concepts (higher-order thinking).
- Use the language and concepts of physics to communicate effectively in oral and written form, to follow detailed instructions, and to function in independent and collaborative settings (communicating and interacting).
- Exhibit the ethical use of knowledge, materials and procedures that demonstrate an impact on society (valuing).
- Manage a secondary education program in physics, that has a laboratory emphasis, with confidence, enthusiasm, efficiency, and safety.

Sem. Hours

**FUNCTIONAL MAJOR REQUIREMENTS** 66-69

PHYS 2121	University Physics I	5
PHYS 2122	University Physics II	5
PHYS 3080	Advanced Physics Lab	1-3
PHYS 3511	Modern Physics I	3
CHEM 1131	General Chemistry I	5
CHEM 1132	General Chemistry II	5
CHEM 4011	Methods of Teaching Physical Sci.	3
BIOL 1004	Intro. to the Sciences: Ecology	4
BIOL 1111	Biology I	4
EASC 1004	Intro. to the Sciences: Geology, 4 or	
EASC 3114	Meteorology, 3	3-4
MATH 1151	Calculus & Analytic Geometry I	5
MATH 1152	Calculus & Analytic Geometry II	5
MATH 2153	Calculus & Analytic Geometry III	3
CS 1100	Computer Programming I	3
T&OE 2000	Technology & Change	3
Departmentally approved electives from the following		
PHYS 3211	Analytical Mechanics I	3
PHYS 3512	Modern Physics II	3
PHYS 3611	Optics	3
PHYS 4312	Electricity & Magnetism	3
PHYS 4411	Thermodynamics	3

**MINOR NOT REQUIRED**

**GENERAL EDUCATION REQUIREMENTS** (pages 34-43) In the

functional major, MATH 1151 fulfills 3 s.h. of Div. I C; PHYS 2121, PHYS 2122, CHEM 1131, and CHEM 1132 are allowed to fulfill 7 s.h. of Div. II A; T&OE 2000 fulfills 2 s.h. of Div. II A; in the professional education requirements, ICAP 4468 fulfills 3 s.h. of Div. IV B

HIST 1350	Div. II B or	
HIST 1351	Div. II B (required)	3
POLS 1510	Div. II B (required)	3
PSY 4230	Psy. of Adolescence	3

Secondary Education students will be allowed to substitute PSY 4230 to fulfill 3 s.h. of Div. III.

**PROFESSIONAL EDUCATION REQUIREMENTS** (page 115)

CHEM 4011 fulfills 2 s.h. of Special Methods in the major field and 1 s.h. of Secondary Field Experience II in the major field

**MINIMUM TOTAL** 124

**COOPERATIVE ENGINEERING 3-2**

**Functional Major, Bachelor of Arts Degree (42-395)**

The University of Central Missouri offers cooperative five-year engineering programs leading to a Bachelor of Arts degree in physics from UCM and a Bachelor of Science degree in engineering from any school listed by the Accreditation Board for Engineering and Technology (ABET) upon satisfactory completion of the program at the ABET institution. Any student electing to enter the five-year program must apply for a degree audit at the close of the sophomore year indicating upon application plans to complete the cooperative plan at another institution and name the institution. For details, consult the Chair of the Chemistry and Physics Department. For the first three years, students should complete the following program.

Sem. Hours

**FUNCTIONAL MAJOR REQUIREMENTS** 65

PHYS 2121	University Physics I	5
PHYS 2122	University Physics II	5
PHYS 3012	Elec. Measurements Laboratory	2
PHYS 3211	Analytical Mechanics I	3
PHYS 3311	Electric Circuit Theory	3
PHYS 4212	Analytical Mechanics II	3
PHYS 4411	Thermodynamics	3
CHEM 1131	General Chemistry I	5
CHEM 1132	General Chemistry II	5
COMM 1000	Public Speaking	3
MATH 1151	Calculus & Analytic Geometry I	5
MATH 1152	Calculus & Analytic Geometry II	5
MATH 2153	Calculus & Analytic Geometry III	3
MATH 3151	Differential Equations	3
CS 1100	Computer Programming I	3
GRAP 1110	Fundamentals of Drafting	2
ECON 1010	Principles of Macroeconomics	3
ECON 1011	Principles of Microeconomics	3

Students whose high school preparation is inadequate should take PHYS 1101 during their first year at UCM.

Depending upon major engineering area, the student should consider taking PHYS 3511, PHYS 3611, PHYS 4513, PHYS 4312 and/or PHYS 4711. Students should check major requirements of the transfer university.

**MINOR NOT REQUIRED**

**GENERAL EDUCATION REQUIREMENTS** (pages 34-43) In the

functional major, COMM 1000 fulfills 3 s.h. of Div. I B; MATH 1151 fulfills 3 s.h. of Div. I C; PHYS 2121, PHYS 2122, CHEM 1131, and CHEM 1132 are allowed to fulfill 7 s.h. of Div. II A; ECON 1010 fulfills 3 s.h. of Div. II B; the Modern Language Requirement fulfills 3 s.h. of Div. II C)

**MODERN LANGUAGE REQUIREMENT** 3-9

Refer to Bachelor's Degree Requirements section for fulfillment options.

**MINIMUM TOTAL AT UCM** 97

**PHYS 1101 College Physics I (4)** Properties of matter, mechanics, sound, and heat. Laboratory required. Prerequisites: MATH 1111 or consent of the instructor. PHYS 1104 is recommended for students whose background in science and/or mathematics is limited.

**PHYS 1102 College Physics II (4)** Electricity, magnetism, light, and atomic and nuclear physics. Laboratory required. Prerequisite: PHYS 1101.

**PHYS 1103 Introduction to the Sciences: Physics (3)** An introduction to physics. Topics include mechanics, energy, heat, sound, electricity, magnetism, light, atomic and nuclear physics, relativity, and astrophysics. Laboratory not included. Not available to those with credit in PHYS 1104.

**PHYS 1104 Introduction to the Sciences: Physics (4)** An introduction to physics. Topics include mechanics, energy, heat, sound, electricity, magnetism, light, atomic and nuclear physics, relativity, and astrophysics. Laboratory included. Not available to those with credit in PHYS 1103.

**PHYS 1123 Elementary Physics Laboratory I (1)** Laboratory experiments in mechanics, heat, and waves. Does not fulfill requirements for any physics degree. Prerequisite: PHYS 2123 or concurrently.

**PHYS 1124 Elementary Physics Laboratory II (1)** Laboratory experiments in electricity, magnetism, optics, and radioactivity. Does not fulfill requirements for any physics degree. Prerequisite: PHYS 2124 or concurrently.

**PHYS 2020 Analytic Methods for Physics and Engineering (3)** Technique development in and application of topics necessary to describe physical problems in the physics and pre-engineering curricula including coordinate systems, vectors and vector operators, series expansions, complex numbers, partial derivatives, special functions, and ordinary differential equations. Prerequisite: PHYS 2121.

**PHYS 2121 University Physics I (5)** Kinematics, dynamics, statics, rotational motion, elasticity, periodic motion, fluids, and heat. Laboratory required. Prerequisites: PHYS 1101 or consent of department, and MATH 1151.

**PHYS 2122 University Physics II (5)** Wave motion, sound, electricity and magnetism, electromagnetic waves, and optics. Laboratory required. Prerequisites: PHYS 2121 and MATH 1152.

**PHYS 2123 University Physics I (4)** Kinematics, dynamics, statics, rotational motion, elasticity, periodic motion, fluids, and heat. Laboratory not included. Does not fulfill requirements for any physics degree. Prerequisites: PHYS 1101 or consent of department, and MATH 1151.

**PHYS 2124 University Physics II (4)** Wave motion, sound, electricity and magnetism, electromagnetic waves, and optics. Laboratory not included. Does not fulfill requirements for any physics degree. Prerequisites: PHYS 2121 or PHYS 2123; MATH 1152.

**PHYS 3012 Electrical Measurements Laboratory (2)** Basic electrical and magnetic measurements from DC to radio frequencies, including electric transients and calibration procedures. Introductory experiments using analog and digital circuits. Corequisite: PHYS 3311.

**PHYS 3020 Special Topics in Physics (1-4)** Study, interpretation, and discussion of special topics and problems in physics. *May be repeated for a maximum of 6 semester hours.* Prerequisite: consent of instructor.

**PHYS 3040 Practicum in Physics Laboratory Management (1.5)** The student will assist with all aspects of an undergraduate physics laboratory at the appropriate level, including answering student questions, preparing equipment, and grading. The student will also be expected to prepare and present two or three introductory lectures for the laboratory, critique materials and methods presently in use, and suggest, design, and produce written materials for a new experiment. *May be repeated for a maximum of 3 semester hours.* Prerequisite: consent of department.

**PHYS 3080 Advanced Physics Laboratory (1-3)** Experimental activities in optics, solid state, atomic, and nuclear physics. Modern instrumentation and analysis methods. *May be repeated for a maximum of 6 semester hours.* Prerequisite: PHYS 2122.

**PHYS 3211 Analytical Mechanics I (3)** Cartesian and curvilinear coordinate systems, vector operations, conditions of equilibrium, equivalent force systems, moments, couples, centroids, trusses, shear force and bending moment, friction. Prerequisites: PHYS 2121 and MATH 1152.

**PHYS 3311 Electric Circuit Theory (3)** The basic principles of circuit analysis including Kirchhoff's laws, network theorems, equivalent circuits, transients, and AC circuits. Prerequisite: PHYS 2122.

**PHYS 3511 Modern Physics I (3)** Special and general relativity; quantized nature of energy and matter; structure and properties of the atom; matter waves; uncertainty principle; Schroedinger equation and its applications. Prerequisites: PHYS 2122 and MATH 2153 or concurrently. Corequisite: PHYS 3080.

**PHYS 3512 Modern Physics II (3)** Applications of basic and intermediate level quantum physics to atoms, molecules, nuclei, solids, and elementary particles. Includes quantum statistical physics. Prerequisites: PHYS 3511 and MATH 2153. Corequisite: PHYS 3080.

**PHYS 3611 Optics (3)** Wave optics, including the principles of superposition, interference, diffraction, polarization, and dispersion. Introduction to quantum optics. Prerequisites: PHYS 2122 and MATH 2153. Corequisite: PHYS 3080.

**PHYS 4212 Analytical Mechanics II (3)** Using a vector analysis, a study is made of kinematics; motion of a particle; kinetics of rigid bodies; work and energy, impulse and momentum; impact. Prerequisites: PHYS 3211 and MATH 2153.

**PHYS 4312 Electricity and Magnetism (3)** Electric and magnetic fields using vector analysis, dielectrics, vector potential, Coulomb's law, Gauss' law, Laplace's equation, and Maxwell's equations. Prerequisites: PHYS 2122 and MATH 2153.

**PHYS 4411 Thermodynamics (3)** Properties of gases, kinetic theory of gases; laws of thermodynamics; entropy and introduction to statistical thermodynamics. Prerequisites: PHYS 2122 and MATH 2153 or concurrently.

**PHYS 4512 Introduction to Quantum Mechanics (3)** Experimental basis; fundamental postulates; Schrodinger wave equation; superposition of states; calculation of energy, position, momentum; hydrogen atom; identical particles; perturbation theory. Prerequisites: PHYS 3511 and MATH 2153.

**PHYS 4513 Solid State Physics (3)** Crystal structure and diffraction in solids. Thermal dielectric properties. Free electron model of metals. Band theory of solids. Brillouin zones. Corequisites: PHYS 3512; PHYS 3080.

**PHYS 4711 Atomic and Nuclear Physics (3)** Designed to use introductory quantum concepts and techniques as applied to the analysis of atoms and nuclei. Prerequisite: PHYS 3512.

**PHYS 4911 Special Problems in Physics (1-3)** Individual work under supervision of a staff member. Problems may be undertaken in any phase of physics. *May be repeated for a maximum of 6 semester hours.*

#### Integrative Studies General

**IGEN 4236 Science and Religion: From Conflict to Dialogue\* (3)** A clarification of the historical and philosophical issues that arise in the relationship between science and religion. The course emphasizes a variety of interpretive viewpoints. \*Not available for graduate credit.

# Mathematics and Computer Science

## Department of Mathematics and Computer Science Statement of Policy

A course with a grade lower than a "C" will not be allowed to fulfill a major or minor requirement in any program offered by the Department of Mathematics and Computer Science.

A student may enroll in a course offered by the Department of Mathematics and Computer Science only if a grade of at least "C" is earned in each of the course's prerequisites taken.

## MATHEMATICS

In the Department of Mathematics and Computer Science, the second digit in a course number with a MATH prefix stands for the following: 0-Unclassified, 1-Analysis, 2-Geometry, 3-Statistics, 4-Discrete Mathematics, 5-Actuarial Science, 6-General Education, 7-Modern Algebra, 8-Mathematics Education, 9-Research and Special Problems.

## ACTUARIAL SCIENCE AND MATHEMATICS

### Functional Major, Bachelor of Science Degree (43-475)

A graduate with a Bachelor of Science degree in Actuarial Science and Mathematics will use the knowledge and skills obtained in the program to:

- Integrate and apply knowledge in the areas of mathematics, statistics, finance, and economics.
- Develop an aptitude for problem solving and apply mathematical, statistical, and financial models in the actuarial area.
- Develop critical thinking skills and the ability to study independently.
- Interpret and utilize precise mathematical language involving definitions, statements, and proofs.
- Examine, describe, and represent functions of various types using analysis techniques.
- Solve a variety of mathematics problems and applications using analytic, numeric, and graphing techniques.
- Think logically, develop algorithms, implement the algorithms in an appropriate computer language, and solve problems with the algorithms.
- Value mathematics and actuarial science for their diverse and related contributions to mathematically based disciplines.
- Achieve a score of at least 3 on the Society of Actuaries Course 1 exam and prepare for Course 2 and part of Course 3 and Course 4.
- Establish a career in actuarial science, mathematics, or related fields and prepare for entry-level positions in business, industry, government, or public education.
- Prepare for graduate study in mathematics, actuarial science, or related fields.

**NOTE:** Candidates for this degree must: (1) achieve a score of 3 or above in course P of the Actuarial Examination Series and (2) possess a 3.00 grade-point average overall and in the major.

Sem. Hours

### FUNCTIONAL MAJOR REQUIREMENTS . . . . . 63-64

MATH 1151	Calculus & Analytic Geometry I . . . . .	5
MATH 1152	Calculus & Analytic Geometry II . . . . .	5
MATH 2153	Calculus & Analytic Geometry III . . . . .	3
MATH 2310	Applied Statistics . . . . .	3
MATH 3311	Introduction to Mathematical Statistics . . . . .	3
MATH 4312	Probability Models . . . . .	3
MATH 2410	Discrete Mathematics . . . . .	3
MATH 4501	Actuarial Exam Review Problem Set I . . . . .	1
MATH 4510	Mathematics of Finance . . . . .	3
MATH 4511	Actuarial Exam Review Problem Set II . . . . .	1
MATH 4520	Life Contingencies . . . . .	3
MATH 4530	Actuarial Modeling . . . . .	3
MATH 3710	Linear Algebra . . . . .	3

CS 1100	Computer Programming I . . . . .	3
CS 2800	Interactive Sys. Design . . . . .	3
ECON 3010	Intermediate Macroeconomics . . . . .	3
FIN 3861	Financial Management I . . . . .	3
FIN 4803	Principles of Insurance . . . . .	3
FIN 4817	Managing Fin. Derivatives . . . . .	3
Electives from the following . . . . .		6-7
MATH 3151	Differential Equations . . . . .	3
MATH 3160	Advanced Applied Calculus . . . . .	3
MATH 3720	Algebraic Structures . . . . .	2
CS 4420	Sys. Simulation & Modeling . . . . .	3
ECON 3030	Intermediate Microeconomics . . . . .	3
FIN 3850	Principles of Finance . . . . .	3

### GENERAL EDUCATION REQUIREMENTS (pages 34-43) In the functional major, MATH 1151 is allowed to fulfill 3 s.h. of Div. I C . . . . . 45

ECON 1010 Div. II B (required) . . . . .	3
ICAP 4245 Div. IV B (required) . . . . .	3

<b>FREE ELECTIVES . . . . .</b>	<b>15-16</b>
<b>MINIMUM TOTAL . . . . .</b>	<b>124</b>

## MATHEMATICS

### Major, Bachelor of Arts Degree (42-453)

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

- Interpret and utilize precise mathematical language involving definitions, statements, and proofs.
- Examine, describe, and represent functions of various types using analysis techniques.
- Solve a variety of mathematics problems and applications using analytic, numeric, and graphing techniques.
- Apply a variety of mathematical models in the solution of problems and applications.
- Think logically, develop algorithms, implement the algorithms in a computer language, and solve problems with the algorithms.
- Value mathematics and computer science for their diverse and related contributions to mathematically based disciplines.
- Communicate his/her mathematical thinking coherently, analyze and evaluate the mathematical thinking of others, and use the language of mathematics to express mathematical ideas precisely.
- Use representations to model and interpret physical, social, and mathematical phenomena.
- Understand how mathematical ideas interconnect and build on one another to produce a coherent whole and apply mathematics in contexts outside of mathematics.
- Establish a career in a mathematical science and prepare for entry-level positions in business, industry, government, or education.
- Prepare for graduate study in mathematics or a related field.

Sem. Hours

### MAJOR REQUIREMENTS . . . . . 34

MATH 1151	Calculus & Analytic Geometry I . . . . .	5
MATH 1152	Calculus & Analytic Geometry II . . . . .	5
MATH 2153	Calculus & Analytic Geometry III . . . . .	3
MATH 2221	Foundations of Geometry . . . . .	3
MATH 4211	Introduction to Topology . . . . .	3
MATH 2410	Discrete Mathematics . . . . .	3
MATH 3710	Linear Algebra . . . . .	3
MATH 3720	Algebraic Structures . . . . .	2
CS 1100	Computer Programming I . . . . .	3
Upper-level electives in MATH or CS . . . . .		4

### MINOR REQUIREMENTS . . . . . 18-25

**GENERAL EDUCATION REQUIREMENTS (pages 34-43) In the major, MATH 1151 is allowed to fulfill 3 s.h. of Div. I C; the Modern Language Requirement fulfills 3 s.h. of Div. II C . . . . . 42**  
ICAP 4233 Div. IV B (required) . . . . . 3

### MODERN LANGUAGE REQUIREMENT . . . . . 3-9

Refer to Bachelor's Degree Requirements section for fulfillment options

<b>FREE ELECTIVES . . . . .</b>	<b>14-27</b>
<b>MINIMUM TOTAL . . . . .</b>	<b>124</b>

**MATHEMATICS**

Major, Bachelor of Science Degree  
(43-454)

A graduate with a Bachelor of Science degree in Mathematics will use the knowledge and skills obtained in the program to:

- Interpret and utilize precise mathematical language involving definitions, statements, and proofs.
- Examine, describe, and represent functions of various types using analysis techniques.
- Solve a variety of mathematics problems and applications using analytic, numeric, and graphing techniques.
- Apply a variety of mathematical models in the solution of problems and applications.
- Think logically, develop algorithms, implement the algorithms in a computer language, and solve problems with the algorithms.
- Value mathematics and computer science for their diverse and related contributions to mathematically based disciplines.
- Communicate his/her mathematical thinking coherently, analyze and evaluate the mathematical thinking of others, and use the language of mathematics to express mathematical ideas precisely.
- Use representations to model and interpret physical, social, and mathematical phenomena.
- Understand how mathematical ideas interconnect and build on one another to produce a coherent whole and apply mathematics in contexts outside of mathematics.
- Establish a career in a mathematical science and prepare for entry-level positions in business, industry, government, or education.
- Prepare for graduate study in mathematics or a related field.

	Sem. Hours
<b>MAJOR REQUIREMENTS</b> . . . . .	<b>41</b>

MATH 1151	Calculus & Analytic Geometry I . . . . .	5
MATH 1152	Calculus & Analytic Geometry II . . . . .	5
MATH 2153	Calculus & Analytic Geometry III . . . . .	3
MATH 2221	Foundations of Geometry . . . . .	3
MATH 2410	Discrete Mathematics . . . . .	3
MATH 3710	Linear Algebra . . . . .	3
MATH 3720	Algebraic Structures . . . . .	2
CS 1100	Computer Programming I . . . . .	3
CS 1110	Computer Programming II . . . . .	3
	Upper-level electives in MATH or CS . . . . .	11

<b>MINOR REQUIREMENTS</b> . . . . .	<b>18-25</b>
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<b>GENERAL EDUCATION REQUIREMENTS</b> (pages 34-43) In the major, MATH 1151 is allowed to fulfill 3 s.h. of Div. I C . . . . .	<b>45</b>
ICAP 4233 Div. IV B (required) . . . . .	3

<b>FREE ELECTIVES</b> . . . . .	<b>13-20</b>
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<b>MINIMUM TOTAL</b> . . . . .	<b>124</b>
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**MATHEMATICS**

Major, Bachelor of Science in Education Degree  
Certification to teach mathematics in grades 9-12  
(41-459)

A graduate with a Bachelor of Science in Education degree in Mathematics will use the knowledge and skills obtained in the program to:

- Interpret and utilize precise mathematical language involving definitions, statements, and proofs.
- Examine, describe, and represent functions of various types using analysis techniques.
- Solve a variety of mathematics problems and applications using analytic, numeric, and graphing techniques.
- Apply a variety of mathematical models in the solution of problems and applications.
- Think logically, develop algorithms, implement the algorithms in an appropriate computer language, and solve problems with the algorithms.
- Value mathematics and computer science for their diverse and related contributions to mathematically based disciplines.
- Communicate his/her mathematical thinking coherently, analyze, and evaluate the mathematical thinking of others, and use the

- language of mathematics to express mathematical ideas precisely.
- Use representations to model and interpret physical, social, and mathematical phenomena.
- Understand how mathematical ideas interconnect and build on one another to produce a coherent whole and apply mathematics in contexts outside of mathematics.
- Understand the appropriate use of technology as tools for representing ideas, investigating patterns, testing conjectures, and representing data.
- Teach mathematics to a diverse population of 9 - 12 learners by applying relevant learning theories, using a variety of teaching strategies, and incorporating materials, technology, and resources.
- Prepare for graduate study in mathematics or mathematics education.

	Sem. Hours
<b>MAJOR REQUIREMENTS</b> . . . . .	<b>35.5</b>

MATH 1151	Calculus & Analytic Geometry I . . . . .	5
MATH 1152	Calculus & Analytic Geometry II . . . . .	5
MATH 1850	Orientation Seminar . . . . .	0.5
MATH 2221	Foundations of Geometry . . . . .	3
MATH 2410	Discrete Mathematics . . . . .	3
MATH 3720	Algebraic Structures . . . . .	2
MATH 3850	Strategies in Teaching Secondary Mathematics . . . . .	3
MATH 4710	Real Number System . . . . .	2
MATH 4851	Prob. & Stat. for Mid/HS Math . . . . .	3
CS 1100	Computer Programming I . . . . .	3
ICAP 4233	The Scientific, Historical, and Sociological Impact of Mathematics . . . . .	3
	Electives from the following or as approved by department . . . . .	3
MATH 2153	Calc. & Analytic Geom. III . . . . .	3
MATH 3151	Differential Equations . . . . .	3
MATH 3221	College Geometry . . . . .	3
MATH 3311	Intro. Mathematical Statistics . . . . .	3
MATH 3710	Linear Algebra . . . . .	3
MATH 4211	Introduction to Topology . . . . .	3
MATH 4312	Probability Models . . . . .	3
MATH 4450	Introduction to Graph Theory . . . . .	3
MATH 4510	Mathematics of Finance . . . . .	3
MATH 4711	Modern Algebra I . . . . .	3
MATH 4741	Intro. to Theory of Numbers . . . . .	3
CS 1110	Computer Programming II . . . . .	3
CS 3310	Introduction to Combinatorics . . . . .	3

<b>MINOR REQUIREMENTS</b> . . . . .	<b>18-25</b>
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<b>GENERAL EDUCATION REQUIREMENTS</b> (pages 34-43) In the major, MATH 1151 is allowed to fulfill 3 s.h. of Div. I C; in the professional education requirements, ICAP 4468 fulfills 3 s.h. of Div. IV B . . . . .	<b>42</b>
Secondary Education students must have one course in a physical or earth science and one in a biological science in Div. II A.	

HIST 1350	Div. II B or	
HIST 1351	Div. II B (required) . . . . .	3
POLS 1510	Div. II B (required) . . . . .	3
PSY 4230	Psy. of Adolescence . . . . .	3

Secondary Education students will be allowed to substitute PSY 4230 to fulfill 3 s.h. in Div. III.

<b>PROFESSIONAL EDUCATION REQUIREMENTS</b> (page 115) . . . . .	<b>28</b>
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<b>FREE ELECTIVES</b> . . . . .	<b>0-0.5</b>
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<b>MINIMUM TOTAL</b> . . . . .	<b>124</b>
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**MATHEMATICS**

Functional Major, Bachelor of Science in Education Degree  
Certification to teach mathematics in grades 9-12  
(41-461)

A graduate with a Bachelor of Science in Education degree in Mathematics will use the knowledge and skills obtained in the program to:

- Interpret and utilize precise mathematical language involving definitions, statements, and proofs.
- Examine, describe, and represent functions of various types using analysis techniques.

- Solve a variety of mathematics problems and applications using analytic, numeric, and graphing techniques.
- Apply a variety of mathematical models in the solution of problems and applications.
- Think logically, develop algorithms, implement the algorithms in an appropriate computer language, and solve problems with the algorithms.
- Value mathematics and computer science for their diverse and related contributions to mathematically based disciplines.
- Communicate his/her mathematical thinking coherently, analyze, and evaluate the mathematical thinking of others, and use the language of mathematics to express mathematical ideas precisely.
- Use representations to model and interpret physical, social, and mathematical phenomena.
- Understand how mathematical ideas interconnect and build on one another to produce a coherent whole and apply mathematics in contexts outside of mathematics.
- Understand the appropriate use of technology as tools for representing ideas, investigating patterns, testing conjectures, and representing data.
- Teach mathematics to a diverse population of 9 - 12 learners by applying relevant learning theories, using a variety of teaching strategies, and incorporating materials, technology, and resources.
- Prepare for graduate study in mathematics or mathematics education.

	Sem. Hours
<b>FUNCTIONAL MAJOR REQUIREMENTS</b> . . . . .	<b>53.5</b>
MATH 1151 Calculus & Analytic Geometry I . . . . .	5
MATH 1152 Calculus & Analytic Geometry II . . . . .	5
MATH 2153 Calculus & Analytic Geometry III . . . . .	3
MATH 2221 Foundations of Geometry . . . . .	3
MATH 3221 College Geometry . . . . .	3
MATH 2410 Discrete Mathematics . . . . .	3
MATH 3720 Algebraic Structures . . . . .	2
MATH 4710 Real Number System . . . . .	2
MATH 1850 Orientation Seminar . . . . .	.0.5
MATH 3850 Strategies in Teaching Secondary Mathematics . . . . .	3
MATH 4851 Prob. & Stat. for Mid/HS Math . . . . .	3
CS 1100 Computer Programming I . . . . .	3
ICAP 4233 The Scientific, Historical, and Sociological Impact of Math. . . . .	3
Electives from the following . . . . .	8-10
PHYS 1101 College Physics I . . . . .	4
PHYS 1102 College Physics II . . . . .	4
or	
PHYS 2121 University Physics I . . . . .	5
PHYS 2122 University Physics II . . . . .	5
Upper-level electives in MATH or CS . . . . .	.5-7
<b>MINOR NOT REQUIRED</b>	
<b>GENERAL EDUCATION REQUIREMENTS</b> (pages 34-43) In the functional major, MATH 1151 is allowed to fulfill 3 s.h. of Div. I C; PHYS 1101 and PHYS 1102 or PHYS 2121 and PHYS 2122 are allowed to fulfill 3-4 s.h. of Div. II A; in the professional education requirements,	
ICAP 4468 fulfills 3 s.h. of Div. IV B . . . . .	<b>38-39</b>
BIOL 1003 Div. II A or	
BIOL 1004 Div. II A (required) . . . . .	3-4
POLS 1510 Div. II B (required) . . . . .	3
HIST 1350 Div. II B or	
HIST 1351 Div. II B (required) . . . . .	3
PSY 4230 Psy. of Adolescence . . . . .	3
Secondary Education students will be allowed to substitute PSY 4230 to fulfill 3 s.h. in Div. III.	
<b>PROFESSIONAL EDUCATION REQUIREMENTS</b> (page 115) . . . . .	<b>28</b>
<b>FREE ELECTIVES</b> . . . . .	<b>3.5-4.5</b>
<b>MINIMUM TOTAL</b> . . . . .	<b>124</b>

**MATHEMATICS**

**Minor, Bachelor of Science in Education Degree**

Certification to teach mathematics in grades 5-9 with a middle school-junior high major.

Elementary education functional majors 1-6 may use this as an area of concentration.

(480)

A graduate with a Mathematics Minor for a Bachelor of Science in Education degree will use the knowledge and skills obtained in the program to:

- Teach mathematics to a diverse population of 5-9 learners by applying relevant learning theories, using a variety of teaching strategies, and incorporating materials, technology, and resources.
- Understand the appropriate uses of technology as tools for representing mathematical ideas, investigating patterns, testing conjectures, and representing data.
- Communicate his/her mathematical thinking coherently, analyze and evaluate the mathematical thinking of others, and use the language of mathematics to express mathematical ideas precisely.
- Use representations to model and interpret physical, social, and mathematical phenomena.
- Understand how mathematical ideas interconnect and build on one another to produce a coherent whole and apply mathematics in contexts outside of mathematics.

Sem. Hours

**MINOR REQUIREMENTS** . . . . . **25**

*MATH 1800 Introduction to Teaching Elementary & Middle School Mathematics . . . . .	2
MATH 2802 Concepts & Methods in Middle School Mathematics . . . . .	3
MATH 3840 Strategies in Teaching Middle School Mathematics . . . . .	3
MATH 4821 Elements of Algebra . . . . .	3
MATH 4822 Elements of Geometry . . . . .	3
MATH 4823 Introduction to Infinite Processes . . . . .	5
MATH 4851 Prob & Stat for Mid/HS Math . . . . .	3
MATH 4871 Algebraic Concepts for Teachers . . . . .	3

\*Course has prerequisite(s) not listed in the program.

**MATHEMATICS**

**Minor for a Bachelor's Degree**

UCM does not confer teacher certification for this minor.

Recommended for majors in business, economics, physical science, social sciences and related fields.

(482)

Sem. Hours

**MINOR REQUIREMENTS** . . . . . **24**

MATH 1151 Calculus & Analytic Geometry I . . . . .	5
MATH 1152 Calculus & Analytic Geometry II . . . . .	5
MATH 2410 Discrete Mathematics . . . . .	3
MATH 3710 Linear Algebra . . . . .	3
MATH 3720 Algebraic Structures . . . . .	2
Electives from the following or as approved by department . . . . .	6
MATH 2153 Calc. & Analytic Geometry III . . . . .	.3
MATH 3311 Intro. to Math. Statistics . . . . .	.3
CS 1100 Computer Programming I . . . . .	.3

**GENERAL EDUCATION REQUIREMENTS** (pages 34-43) In the minor, MATH 1151 is allowed to fulfill 3 s.h. of Div. I C

**Analysis**

**MATH 1101 Intermediate Algebra (3)** The properties of real numbers, polynomials, rational exponents, radicals, functions, and systems of equations. Prerequisite: high school credit in basic algebra or AE 1030. Placement according to University policy applies.

**MATH 1111 College Algebra (3)** Continuation of algebra including such topics as linear and quadratic equations, linear and quadratic inequalities, second degree relations and functions, systems of equations and inequalities, and exponential and logarithmic functions. Prerequisite: high school program including advanced algebra or MATH 1101.



**MATH 1112 College Trigonometry (2)** Elementary trigonometric functions, identities, trigonometric equations, multiple angle formulas, and general triangle solutions. Prerequisite: a high school program including advanced algebra and one unit of geometry; or MATH 1111 or concurrently.

**MATH 1131 Applied Calculus (3)** The fundamental skills and concepts of calculus with an emphasis on applications in engineering, science and technology. Prerequisite: a high school program including one unit of advanced algebra and one unit of geometry, or MATH 1111.

**MATH 1150 Pre-Calculus Mathematics (4)** Pre-calculus concepts in algebra and trigonometry for the student with an above average preparation in high school mathematics. Prerequisite: a high school program including advanced algebra, one unit of geometry, and one-half unit of trigonometry. Placement according to University policy applies.

**MATH 1151 Calculus and Analytic Geometry I (5)** A combined course in calculus and analytic geometry. Prerequisite: a high school program including advanced algebra, one unit of geometry, and one-half unit of trigonometry; or MATH 1112 or MATH 1150.

**MATH 1152 Calculus and Analytic Geometry II (5)** A continuation of MATH 1151. Prerequisite: MATH 1151.

**MATH 2153 Calculus and Analytic Geometry III (3)** A continuation of MATH 1152. Prerequisite: MATH 1152.

**MATH 3151 Differential Equations (3)** Presents techniques of solving ordinary differential equations with applications to physics and engineering. Prerequisite: MATH 2153.

**MATH 3160 Advanced Applied Calculus (3)** Differential and integral calculus of functions of several variables, vector differential and integral calculus, and Fourier series. Prerequisite: MATH 3710 or consent of Chairperson and MATH 2153.

**MATH 4180 Advanced Calculus (3)** A rigorous approach to the fundamental concepts of differential calculus, integral calculus, and infinite series. Prerequisites: MATH 2153 and MATH 3710.

### Geometry

**MATH 2221 Foundations of Geometry (3)** An emphasis on the techniques of proof and constructions in geometry, the properties of a set of postulates, a brief review of Euclidean geometry, and the study of other geometries. Prerequisite: One unit of high school geometry.

**MATH 3221 College Geometry (3)** Modern Euclidean geometry, geometric transformations, advanced Euclidean constructions, constructible numbers, extension fields and the three impossible problems of antiquity. Prerequisite: MATH 2221.

**MATH 4211 Introduction to Topology (3)** Introduces the concept of point set topology. Includes the study of the real number line, the real plane, metric spaces, topological spaces, continuity, connectedness, compactness, product spaces, and separation properties. Prerequisite: MATH 3720.

### Statistics

**MATH 2310 Applied Statistics (3)** Applied statistical models and methods with an emphasis on regression analysis, time series analysis and forecasting. Prerequisite: MATH 1152.

**MATH 3311 Introduction to Mathematical Statistics (3)** Basic concepts of probability and statistics. Prerequisite: MATH 1151. Corequisite: MATH 2410 or CS 1400.

**MATH 4312 Probability Models (3)** An in-depth study of probability theory and stochastic processes with their applications in fields such as computer science, management science, social science, and operations research. Prerequisites: MATH 2153 and MATH 3311.

### Discrete Mathematics

**MATH 2410 Discrete Mathematics (3)** Basic concepts of logic, mathematical proof techniques, sets and relations, functions, mathematical induction and recursive algorithms, principles of counting, permutations and combinations, discrete probability theory, integers and algorithms. Prerequisite: high school program including advanced algebra or MATH 1111.

**MATH 4450 Introduction to Graph Theory (3)** Basic graph theory concepts: connectivity, trees, matchings, graph coloring, Eulerian and Hamiltonian graphs, distance, planarity, and network flows. Prerequisite: MATH 2410 or CS 2400.

### Actuarial Science

**MATH 4501 Actuarial Exam Review-Problem Set I (1)** Problems from calculus, analytic geometry, and probability that apply to actuarial science. Prerequisite: MATH 4312.

**MATH 4510 Mathematics of Finance (3)** The basic measures of interest, annuities, discounted cash flow analysis, and their applications. Prerequisite: MATH 1152.

**MATH 4511 Actuarial Exam Review-Problem Set II (1)** Problems from math of finance, financial management, and micro- and macroeconomics. Prerequisites: MATH 4510, FIN 3861, FIN 4817, and ECON 1010.

**MATH 4520 Life Contingencies (3)** Theory and applications of contingency mathematics in the areas of life and health insurance, annuities and pensions. Prerequisites: MATH 4312 and MATH 4510.

**MATH 4530 Actuarial Modeling (3)** Actuarial concepts, principles, and techniques that are used in insurance modeling including loss distributions, aggregate loss models, credibility theory, and simulations. Prerequisite: Math 4312.

### General Education

**MATH 1620 Contemporary Mathematics (3)** Mathematical concepts, with historical perspectives, from various branches of mathematics including an introduction to statistics, logic, combinatorics, linear programming, number theory, geometry and probability. Prerequisite: a high school program including advanced algebra or MATH 1101. Placement according to University policy applies.

### Modern Algebra

**MATH 3710 Linear Algebra (3)** An introduction to matrices, determinants, vector spaces and linear transformations. Prerequisite: MATH 2410 or CS 2400.

**MATH 3720 Algebraic Structures (2)** Basic mathematical systems: groups, rings and fields. Prerequisite: MATH 2410 or CS 2400.

**MATH 4710 Real Number System (2)** The real number system beginning with the natural numbers using Peano's postulates. Prerequisite: MATH 3720.

**MATH 4711 Modern Algebra I (3)** Some of the theories of modern algebra with emphasis on algebraic systems with one operation. Prerequisite: MATH 3720.

**MATH 4741 Introduction to the Theory of Numbers (3)** Congruences, quadratic residues, the reciprocity theorem, and Diophantine equations. Prerequisite: MATH 3720.

### Mathematics Education

**MATH 1800 Introduction to Teaching Elementary and Middle School Mathematics (2)** A six-week course focusing on the concepts and methods of teaching mathematics in both elementary and middle school. Prerequisite: MATH 1620.

**MATH 1850 Orientation Seminar (0.5)** Five 90-minute seminars will acquaint students majoring in secondary mathematics education with courses, portfolio assessment, interview process, standardized tests and professional organizations.

**MATH 2801 Concepts and Methods in Elementary School Mathematics (3)** A nine-week course focusing on the concepts and methods of teaching mathematics in grades K-5. Corequisite: MATH 1800.

**MATH 2802 Concepts and Methods in Middle School Mathematics (3)** A nine-week course focusing on the concepts and methods of teaching mathematics in grades 5-9. Corequisite: MATH 1800.

**MATH 3812 Mathematics in the Integrated Middle School Curriculum (3)** An emphasis on integrating mathematics with other subject areas at the middle school level. A focus on relationships between mathematics and other subject areas together with investigation of relevant applications of mathematics outside the classroom. Prerequisites: MATH 1620 and completion of 9 semester hours in minor teaching field.

**MATH 3840 Strategies in Teaching Middle School Mathematics (3)** An investigation of techniques, problems, and issues involved in the teaching of middle school mathematics. Involves both lecture and field experience. Not applicable to major requirements for secondary majors. Prerequisite: MATH 2802.

**MATH 3850 Strategies in Teaching Secondary Mathematics (3)** An investigation of instructional strategies, problems and issues relevant to the teaching of secondary school mathematics. Prerequisites: MATH 1152, MATH 2221 and MATH 2410.

**MATH 3890 Concepts and Methods of Teaching for Special Education (3)** A survey of concepts and methods for teaching mathematics grades K-12 with particular attention to needs of special education inclusion students. Prerequisite: MATH 1620.

**MATH 4820 Secondary Field Experience II\* (1)** Experiences in the secondary school classroom that provide the teacher candidate more advanced involvement in the teaching-learning process. Prerequisites: admission to Teacher Education Program; should be taken concurrently with MATH 4870 during the Professional Semester. \*Not available for graduate credit.

**MATH 4821 Elements of Algebra (3)** Basic concepts of algebra adapted to the needs of elementary teachers. May be taken for graduate credit by elementary teachers only. Prerequisite: MATH 2802.

**MATH 4822 Elements of Geometry (3)** Concepts and relationships of geometry adapted to the needs of elementary/middle school teachers. Available for graduate credit to elementary teachers only. Prerequisite: MATH 2802.

**MATH 4823 Introduction to Infinite Processes (5)** Transition from the concepts of elementary analysis to the infinite processes which form the foundation for the calculus. Open only to elementary and middle school/junior high education majors in the B.S. in Ed. and Master of Science in Education degrees. Prerequisites: MATH 4821 and MATH 4822.

**MATH 4851 Probability and Statistics for Middle/High School Mathematics (3)** A course focusing on the concepts and methods of teaching probability and statistics in the middle and high school mathematics program. Not available for graduate credit for M.S. Mathematics. Prerequisites: MATH 4821 and MATH 4822 or MATH 1151.

**MATH 4870 Methods of Teaching Mathematics\* (2)** Prerequisites: admission to Teacher Education Program; double majors must take a methods course for each major; methods should be taken concurrently with MATH 4820 during the Professional Semester. \*Not available for graduate credit.

**MATH 4871 Algebraic Concepts for Teachers (3)** The properties and language of sets, functions, groups, rings, integral domains, and fields. Recommended for middle school/junior high school teachers. Will not satisfy requirements on undergraduate programs where MATH 3720 is a requisite. Prerequisite: MATH 4821 or equivalent course in college algebra.

**MATH 4890 Mathematics for Special Education (2)** Individual and small group investigation of concepts and procedures appropriate for instruction of mathematics to all special needs children. Prerequisite: EDSP 2100; and MATH 2801 or MATH 2802 or MATH 3890.

**Research and Special Problems**

**MATH 4910 Special Problems in Mathematics (1-3)** Individual reading and research leading to an acceptable paper on some topic not included in the regular offerings of the department. *May be repeated for a maximum of 3 semester hours.* Prerequisite: mathematics major or MATH 3720 or consent.

**MATH 4912 Internship in Mathematical Sciences (3-8)** Opportunity for students to gain knowledge in areas of mathematical science, both theoretical and applied, that would not normally be included as a part of the department's curriculum. Internship contract must be completed prior to beginning work/learning experience. *May be repeated for a maximum of 16 semester hours.* A maximum of 8 semester hours may be applied to any one degree. Prerequisite: consent of department Internship Committee and if taken for graduate credit, approval of graduate adviser.

**Integrative Studies Capstone**

**ICAP 4233 The Scientific, Historical, and Sociological Impact of Mathematics\* (3)** Provides an opportunity to experience and understand the importance of mathematics in human development. Prerequisite: 15 semester hours of college mathematics.

\*Not available for graduate credit.

**ICAP 4245 Actuarial Science Capstone Experience\* (3)** Integration of actuarial science topics and skills with topics from various other disciplines, including actuarial ethics, social roles, and the Code of Professional Conduct. Prerequisite: MATH 4520. \*Not available for graduate credit.

**COMPUTER SCIENCE**

In the Department of Mathematics and Computer Science, the second digit in a course number with a CS prefix stands for the following: 0-Research and Special Problems, 1-Programming Languages, 2-Architecture, 3-Algorithms and Data Structures, 4-Numerical and Symbolic Computation, 5-Operating Systems, 6-Database and Information Retrieval, 7-Artificial Intelligence and Robotics, 8-Human-Computer Communication, 9-Software Engineering and Professional Issues.

**COMPUTER SCIENCE**

**Functional Major, Bachelor of Science Degree (43-859)**

A graduate with a Bachelor of Science degree in Computer Science will use the knowledge and skills obtained in the program to:

- Design, implement and analyze algorithms in appropriate contemporary computer programming languages (e.g. C/C++, Java, Visual Basic).
- Design and implement basic computing devices using theoretical and applied knowledge of digital logic design techniques.
- Design, implement and analyze computer systems using theoretical and applied knowledge of computer architecture and operating systems.
- Develop and maintain system software using theoretical and applied knowledge of compiler, systems programming and assembly programming languages.
- Develop and maintain medium to large scale application software using theoretical and applied knowledge of software engineering, interactive systems design, programming languages and computer graphics.
- Design, implement and analyze computer and communications networks using theoretical and applied knowledge of web programming, networks and mobile computing (e.g. TCP/IP, network programming techniques).
- Design and implement database systems using theoretical and applied knowledge of discrete structures, data structures and relational database systems (e.g. Oracle, SQL, PHP).
- Design and analyze computer graphic systems using theoretical and applied knowledge of computer graphics (e.g. OpenGL) and apply it to practical applications (e.g. game design).
- Address the needs of society with a sense of professionalism.
- Adapt to a dynamic multidisciplinary technological environment through teamwork, ethical concerns, and effective communication.
- Enter a career in computer science related industry or for graduate study in computer science.
- Stay abreast of advancements in the area of computer science.

Sem. Hours

**FUNCTIONAL MAJOR REQUIREMENTS . . . . . 63**

CORE		42
CS	1100	Computer Programming I . . . . . 3
CS	1110	Computer Programming II . . . . . 3
CS	3100	Programming Languages . . . . . 3
CS	2200	Intro. to Computer Organization . . . . . 3
CS	3200	Computer Architecture . . . . . 3
CS	2300	Data Structures . . . . . 3
CS	4300	Algorithm Design & Analysis . . . . . 3
CS	1400	Discrete Structures I . . . . . 3
CS	2400	Discrete Structures II . . . . . 3

CS	4500	Operating Systems	3
CS	4600	Database Theory & Applications	3
CS	4900	Compiler	3
CS	4910	Software Engineering	3
MATH	3311	Introduction to Math. Statistics	3
Select Area 1 or 2			21
<b>Area 1: Computer Technology</b>			
CS	2100	Web Programming	3
CS	3110	Object-Oriented Programming	3
CS	4800	Networks & Mobile Computing	3
Electives from the following			12
CS	4020	Internship in CS	3
CS	4420	Systems Simulation & Modeling	3
CS	2500	UNIX Systems Programming	3
CS	4700	Artificial Intelligence	3
CS	2800	Interactive Systems Design	3
CS	3800	Computer Graphics	3
MATH	4450	Introduction to Graph Theory	3

**Area 2: Computer Science**

MATH	1152	Calculus & Analytic Geometry II	5
MATH	3710	Linear Algebra	3
PHYS	1102	College Physics II	4
Electives from the following			9
CS	4020	Internship in CS	3
CS	2100	Web Programming	3
CS	3110	Object-Oriented Programming	3
CS	4400	Numerical Analysis I	3
CS	4420	Systems Simulation & Modeling	3
CS	2500	UNIX Systems Programming	3
CS	4700	Artificial Intelligence	3
CS	2800	Interactive Systems Design	3
CS	3800	Computer Graphics	3
CS	4800	Networks & Mobile Computing	3
MATH	2153	Calculus & Analytic Geometry III	3
MATH	4450	Introduction to Graph Theory	3

**MINOR NOT REQUIRED****GENERAL EDUCATION REQUIREMENTS** (pages 34-43)

BIOL 1004 or CHEM 1104 or EASC 1004 is required to fulfill 3 s.h. of Div. II A Part 1.	48
MATH 1151 Div. I C (required)	5
ICAP 4225 Div. IV B (required)	3
Area 1: PHYS 1104 Div. II A (required)	4
Area 2: PHYS 1101 Div. II A (required)	4
MATH 1151 fulfills 3 s.h. of Div I C. In Area B, Phys 1101 and Phys 1102 together fulfill 4 s.h. of Div II A.	
<b>FREE ELECTIVES</b>	13
<b>MINIMUM TOTAL</b>	124

**COMPUTER SCIENCE****Minor for a Bachelor's Degree**

UCM does not confer teacher certification for this minor.  
(449)

	Sem. Hours
<b>MINOR REQUIREMENTS</b>	21
CS 1100 Computer Programming I	3
CS 1110 Computer Programming II	3
CS 2100 Web Programming	3
CS 2300 Data Structures	3
Electives from the following*	9
CS 3100 Programming Languages	3
CS 3110 Object-Oriented Programming	3
CS 2200 Intro. to Computer Organization	3
CS 3200 Computer Architecture	3
CS 1400 Discrete Structures I	3
CS 2500 UNIX Systems Programming	3
CS 4600 Database Theory & Applications	3
CS 4700 Artificial Intelligence	3

CS 2800 Interactive Systems Design	3
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\*Other elective options: Any valid Computer Science Functional Major's electives, if the prerequisites are satisfied.

**Research and Special Problems**

**CS 4000 Special Problems in Computer Science (1-3)** Individual reading and research on some topics not included in the regular offerings of the department. May be repeated for a maximum of 3 semester hours. Prerequisite: CS 2300 or consent.

**CS 4020 Internship in Computer Science (3-8)** Opportunity for students to gain knowledge in areas of computer science, both theoretical and applied, that would not normally be included as part of the department's curriculum. Internship contract must be completed prior to beginning work/learning experience. May be repeated for a maximum of 16 semester hours. A maximum of 8 semester hours may be applied to any one degree. Prerequisites: consent of department Internship Committee and if taken for graduate credit, approval of graduate adviser.

**Programming Languages**

**CS 1100 Computer Programming I (3)** An introduction to software design methodology using a modern high-level programming language. Topics include problem-solving techniques, high-level control structures and fundamental algorithms. Prerequisite: three units of high school mathematics or MATH 1101.

**CS 1110 Computer Programming II (3)** A continuation of CS 1100. Topics include advanced software design methodologies. Prerequisite: CS 1100 or consent of instructor.

**CS 2100 Web Programming (3)** Introduction to client-side Web Programming: HTML, XHTML, cascading style sheets (css), JavaScript, Web graphics, and Web browsers. Prerequisite: CS 1110 or consent of instructor.

**CS 3100 Programming Languages (3)** An overview of the main features of major programming languages. Various programming languages will be compared in their handling of variables, types, control structures, and input-output. Prerequisite: CS 2300.

**CS 3110 Object-Oriented Programming (3)** An introduction to object-oriented programming. Topics include objects, classes, inheritance, class extension, interfaces, polymorphism, and object-oriented design. Prerequisite: CS 1110 or consent of instructor.

**Architecture**

**CS 2200 Introduction to Computer Organization (3)** Logical structure of digital computers: representation of information, addressing mechanisms, storage and peripheral hardware, combinational and sequential logic design, assembly and system programming. Prerequisite: CS 1110.

**CS 3200 Computer Architecture (3)** Design alternatives in computer architecture including instruction set architectures, memory subsystem organization, interfacing concepts, interprocessor communication, datapath and control of a processor, and pipelining. Prerequisite: CS 2200.

**Algorithms and Data Structures**

**CS 2300 Data Structures (3)** An introduction to data representations and information structures including a variety of non-numerical algorithms and their applications. Linear lists, arrays, trees, multilinked structures and dynamic storage allocation are investigated. Prerequisite: CS 1110 or consent of instructor.

**CS 4300 Algorithm Design and Analysis (3)** Techniques needed to analyze algorithms. The application of these techniques to topics such as sorting, graph algorithms, fast Fourier transforms, dynamic programming, and NP-completeness. Prerequisite: CS 2300 and MATH 1151.

**CS 4310 Theory of Computation (3)** Includes finite-state automata, pushdown automata, and Turing machines. The topics of regular expressions, context-free languages, the halting problem, Post's correspondence problem, P, NP, NP-completeness, and some NP-complete problems will be discussed. Prerequisite: CS 2400 or MATH 2410.

### Numerical and Symbolic Computation

**CS 1400 Discrete Structures I (3)** Basic concepts of sets, mathematical induction, principle of inclusion-exclusion, logic, binary relations, relations and functions, sequences and subsequences, and the pigeon-hole principle. Prerequisites: High school mathematics including algebra or MATH 1111.

**CS 2400 Discrete Structures II (3)** Basic concepts: analysis of algorithms, graph theory, counting and combinatorics, discrete probability, and recurrence relations. Prerequisites: CS 1400 or MATH 2410.

**CS 4400 Numerical Analysis I (3)** Finite difference interpolation, numerical differentiation and integration, numerical solution of nonlinear equations, numerical solution of ordinary differential equations. Computational techniques stressed and extensive quantity of problems to be solved on a digital computer. Prerequisites: CS 1110 and MATH 1152.

**CS 4410 Operations Research (3)** Systems and models, including Random Number Process, (Monte Carlo Process) and Queuing Concepts. Combining these concepts into model building techniques. Prerequisites: CS 1110 and MATH 3311, or CIS 2615 and FIN 2801.

**CS 4420 System Simulation and Modeling (3)** Model construction and simulation applied to problems taken from finance, statistics, sciences, communication networks and computer systems. Application projects using different simulation languages required. Prerequisites: CS 1100 and MATH 3311.

### Operating Systems

**CS 2500 UNIX Systems Programming (3)** Introduction to UNIX systems programming. Topics include: processes and threads, I/O, files and directories, UNIX special files, signals, concurrency, communication, and shell programming. Prerequisite: CS 1110 or consent of instructor.

**CS 4500 Operating Systems (3)** An introduction to operating systems. Topics include: processes, threads, CPU scheduling, process synchronization, deadlock, memory management, file systems, mass-storage structure, I/O systems, and case studies. Prerequisites: CS 2200 and CS 2300.

### Database and Information Retrieval

**CS 4600 Database Theory and Applications (3)** An introduction to database theory and design, including relational algebra/calculus, normalization of data, and query optimization. Security, integrity, and concurrent operation issues will be presented. Distributed database systems will also be introduced. Significant application-oriented projects using SQL will be required. Prerequisites: (CS 1400 or MATH 2410) and CS 2300.

### Artificial Intelligence and Robotics

**CS 4700 Artificial Intelligence (3)** An introduction to Artificial Intelligence (AI) and AI languages such as LISP and PROLOG. Specific topics will include knowledge representation, predicate calculus, resolution, pruning, heuristic search techniques, probabilistic reasoning, and expert systems. Prerequisites: (CS 1400 or MATH 2410) and CS 2300.

### Human-Computer Communication

**CS 2800 Interactive Systems Design (3)** Concepts and applications in the field of Human Computer Interaction. Topics include human-computer interaction, GUI design and multimedia systems. Application projects using VB required. Prerequisite: CS 1100 or consent of instructor.

**CS 3800 Computer Graphics (3)** An introduction to computer graphics. Topics include: basic geometric primitives, transformations, clipping, viewing, color models, animation, and rendering. Programming: using OpenGL and appropriate languages. Prerequisites: CS 2300 and MATH 1151.

**CS 4800 Networks and Mobile Computing (3)** General principles and concepts of computer networks with emphasis on system-level network technologies, protocols, network programming, wireless networking and mobile computing. Prerequisite: CS 2200.

### Software Engineering and Professional Issues

**CS 4900 Compiler (3)** Includes finite-state machines, top-down and bottom-up parsing, and syntax-directed translation. The topics of regular grammars, lexical analysis, LL(k) grammars, LR(k) grammars, syntax-directed translation schemes, and simple transducers will be discussed. Prerequisite: CS 3100

**CS 4910 Software Engineering (3)** General principles of software development with emphasis on design of software architectures, translation of high-level specification systems, process modeling, software optimization, formal methods and ethical issues. Prerequisite: CS 3100.

### Integrative Studies Capstone

**ICAP 4225 Computer Science Capstone Experience\* (3)** Integration of computer science topics from other disciplines, including studies in computer ethics, the social impact of computing, and the psychological issues of computer/human interfaces. Prerequisite: Senior standing in Computer Science. \*Not available for graduate credit.

## Military Science and Leadership

In the Department of Military Science and Leadership, the second digit in the course number stands for the following: 1-Freshman year, 2-Sophomore year, 3-Junior year, 4-Senior year, 5-Summer Camp.

### Department of Military Science and Leadership Statement of Policy

The Army Reserve Officers' Training Corps (ROTC) develops college-educated officers for the active Army and reserve components. It provides young men and women the opportunity to earn commissions as Army officers and at the same time work toward an academic degree.

There are two programs available, a four-year program and a two-year program, both culminating in a United States Army commission.

The **four-year program** is divided into two phases, Basic Military Science and Advanced Military Science. Basic Military Science is normally taken by students in their freshman and sophomore years. It provides instruction in the basic subject areas needed to establish a firm foundation in military skills. This foundation provides for continued professional development in the areas of leadership and management.

Advanced Military Science is normally taken during the junior and senior years. The program develops the student's ability to express himself/herself clearly and accurately. It teaches leadership by both classroom theory and the practical application of directing individuals and small units in the execution of simulated tactical missions. While enrolled in Advanced Military Science, the student is paid a monthly financial allowance by the U.S. Army.

Freshmen and sophomores who are veterans with a minimum of four months active service, or reserve/national guard personnel who have completed basic training in any of the armed services, may be granted advanced ROTC placement, not to exceed two years, at the discretion of the Professor of Military Science and Leadership.

The **two-year program** is offered for students who have completed two years of college but have not completed a basic military science program or served on active duty with any of the armed services. Students attend a basic five-week summer training program at the end of their sophomore year. After successful completion of the basic camp, students will start Advanced Military Science with all the pay and entitlements of the four-year program cadet.

The **U.S. Army Scholarship program** provides an excellent way for young men and women to obtain assistance in financing a college education. All scholarships cover the cost of tuition, books, certain fees and educational supplies, as well as a monthly financial allowance. Additional scholarship information is available from the Department of Military Science and Leadership.

To **qualify for a commission** as a Second Lieutenant, a student must comply with all terms of his/her contract; successfully complete Basic Military Science or equivalent; successfully complete MS 3310, MS 3320, MS 3330, MS 3340, MS 4410, MS 4420, MS 4430, MS 4440 and MS 4510; complete all University requirements for a bachelor's degree; meet the physical standards of current U.S. Army regulations and agree to accept an Active Army, Army National Guard or Army Reserve duty assignment. Additionally, candidates for a commission must complete at least one course from each of the following Professional Education subject areas: Written Communications, Computer Literacy and Military History. A list of approved courses for each of the Professional Education subject areas may be obtained from the Department of Military Science and Leadership.

## MILITARY SCIENCE

### Minor for a Bachelor's Degree

UCM does not confer teacher certification for this minor (201)

Sem. Hours

### MINOR REQUIREMENTS . . . . . 32-34

MS	3310	Adaptive Tactical Leadership . . . . .	3
MS	3320	Leadership in Changing Environments . . .	3
MS	3330	Intro. to the Army Physical Fitness Program	2
MS	3340	Concepts in Fitness Training Dev. . . . .	2
MS	4410	Developing Adaptive Leaders . . . . .	3
MS	4420	Leadership in a Complex World . . . . .	3
MS	4430	Mgt. of the Unit Fitness Program . . . . .	2
MS	4440	The Army Master Fitness Training Program	2
MS	4510	Advanced Summer Camp . . . . .	3
HIST	4316	The American Military Experience, 3 or Equivalent Military History Course (chair approval) . . . . .	3
Electives from the following . . . . .			6-8
MS	1110	Leadership & Personal Development . . .	2
MS	1120	Introduction to Tactical Leadership . . . .	2
MS	2210	Innovative Team Leadership . . . . .	2
Departmentally approved elective . . . . .			3
MS	2220	Foundations of Tactical Leadership, 2 or	
MS	2510	Basic Summer Camp, 3 . . . . .	2-3
Departmentally approved elective, 3, or Active duty or reserve forces basic training . . . . .			3

**MS 1110 Leadership and Personal Development (2)** Introduce military mountaineering, basic first aid and leadership fundamentals. Students learn how life skills such as goal setting, and physical fitness relate to leadership and the Army profession. Only offered Fall semester.

**MS 1120 Introduction to Tactical Leadership (2)** Introduce land navigation and compass skills. Overviews leadership fundamentals of problem-solving, listening, briefing, and written and oral communication. Explores leadership values, attributes, skills, and actions through hands-on and interactive exercises. Laboratory is required. Only offered Spring semester. Prerequisites: MS 1110 or consent of Department Chair.

**MS 2210 Innovative Team Leadership (2)** Teach rappelling, basic survival techniques, and land navigation. Explores creative and innovative tactical leadership. Develops personal motivation and team building in the context of planning, executing, and assessing team exercises. Laboratory is required. Only offered Fall semester. Prerequisite: MS 1120 or equivalent or consent of the Department Chair.

**MS 2220 Foundations of Tactical Leadership (2)** Continue skills in rappelling, one-rope bridges, and land navigation. Introduces squad tactics; highlights terrain analysis, patrolling, and operation orders; addresses challenges of leading; and continues exploring adaptive leadership. Laboratory is required. Only offered Spring semester. Prerequisite: MS 2210 or equivalent or consent of the Department Chair.

**MS 2510 Basic Summer Camp (3)** Substitutes for the first two years of military science courses. Course is conducted during the summer for a period of five weeks. Transportation, room, board, military clothing and a salary are provided. Interested students should contact the Professor of Military Science between January and March of their sophomore year. Prerequisite: departmental consent.

**MS 3310 Adaptive Tactical Leadership (3)** Concentrate on the principles and techniques of military operations and leadership through study, practice, and evaluation as students are presented with scenarios related to tactical operations. Focuses on development through self-evaluation and feedback. Only offered Fall semester. Prerequisite: MS 2220. Corequisite: MS 3330.

**MS 3320 Leadership in Changing Environments (3)** Concentrate on the principles, fundamentals, and techniques of leadership at small unit or organization levels with increasingly intense situational leadership challenges to build cadet awareness and skills in leading tactical operations up to platoon level. Only offered Spring semester. Prerequisites: MS 3310 and MS 3330. Corequisite: MS 3340.

**MS 3330 Introduction to the Army Physical Fitness Program (2)**  
 Basic components of fitness and an overview of the principles of exercise. Only offered Fall semester.

**MS 3340 Concepts in Fitness Training Development (2)**  
 Development of the unit physical fitness program with an in-depth analysis of the principles of fitness and exercise. Only offered Spring semester. Prerequisite: MS 3330.

**MS 4410 Developing Adaptive Leaders\* (3)** Develop proficiency in planning, executing, and assessing operations, staff operations, and leading and counseling subordinates. Teaches risk assessment, making ethical decisions, military justice, and personnel processes helping cadets transition to officers. Only offered Fall semester. Prerequisites: MS 3320 and MS 3340. Corequisite: MS 4430. \*Not available for graduate credit.

**MS 4420 Leadership in a Complex World\* (3)** Explore leading in the complex situations in the contemporary operating environment (COE). Teaches customs and courtesies, military law, principles of war, and rules of engagement. Discusses non-government organizations, civilians on the battlefield, and host nation support. Only offered Spring semester. Prerequisites: MS 4410 and MS 4430. Corequisite: MS 4440. \*Not available for graduate credit.

**MS 4430 Management of the Unit Fitness Program\* (2)** Alternate athletic activities and risk assessment planning. Only offered Fall semester. Prerequisite: MS 3340. \*Not available for graduate credit.

**MS 4440 The Army Master Fitness Training Program\* (2)**  
 Administration of the unit fitness program with emphasis on the regulatory requirements governing the unit fitness program. Only offered Spring semester. Prerequisite: MS 4430. \*Not available for graduate credit.

**MS 4500 Current Military Trends\* (3)** Enhance knowledge and proficiency in officership through exploration of military trends and scenarios to produce military officers who are better prepared for their first duty assignment. Prerequisite: MS 4420. \*Not available for graduate credit.

**MS 4510 Advanced Summer Camp\* (3)** Five weeks of advanced summer camp experience for advanced military science students. Required for completion of military science program and commissioning. Students receive financial assistance. Prerequisite: MS 3320 and departmental consent. \*Not available for graduate credit.

## School of Technology

### AUTOMOTIVE TECHNOLOGY MANAGEMENT

Functional Major, Bachelor of Science Degree  
 (43-838)

The graduate with a Bachelor of Science degree in Automotive and Power Technology will use the knowledge and skills obtained in the program to:

- Research, prepare and present both oral and written reports on technical or management subjects related to his/her area of specialization.
- Identify, analyze and solve technical or management problems related to his/her field of specialization.
- Function effectively as a participating member of a work group to accomplish a particular goal.
- Demonstrate desirable work habits and professional and conscientious attitudes in his/her particular areas of instruction through participation in professional activities and organizations, and leadership activities both in and out of the classroom.
- Demonstrate a mastery of skill beyond the entry level related to one or more areas of technical, management or marketing specialties in the major area of study.
- Demonstrate technical and general knowledge required in occupational work areas related to the major field of study.

Sem. Hours

#### FUNCTIONAL MAJOR REQUIREMENTS . . . . . 77

Students must receive a grade of C or higher in all required courses with the PR&T prefix in order for the course to count toward the major.

##### Technical Courses:

PR&T 1010	Power Mechanics . . . . .	3
PR&T 2110	Engine Theory & Maintenance . . . . .	4
PR&T 3150	Diesel Technology . . . . .	3
PR&T 2130	Auto. Electrical Systems . . . . .	4
PR&T 2132	Fuel Systems & Emission Controls . . . . .	4
PR&T 3134	Advanced Powerplant Systems . . . . .	4
PR&T 4032	Hydraulics & Pneumatics . . . . .	3
ET 1026	DC Circuit Analysis . . . . .	4
PR&T 3130	Computerized Engine Diagnostics. . . . .	4
GRAP 1110	Fundamentals of Drafting . . . . .	2
MMGT 2530	Machine Tool Technology . . . . .	3
PR&T 3120	Steering & Suspension Systems . . . . .	4
PR&T 3124	Automotive Braking Systems . . . . .	4
INDT 1042	Tech. Math II, 3 or	
MATH 1131	Applied Calculus, 3 . . . . .	3

##### Management Courses:

T&OE 3060	Technical Writing . . . . .	3
T&OE 3022	Internship in Technology . . . . .	3
INDM 4210	Industrial Management, 3 or	
MGT 3310	Prin. of Management, 3 . . . . .	3
ACCT 2100	Survey of Accounting . . . . .	3
BLAW 2720	Legal Environment of Business . . . . .	3
MKT 3400	Principles of Marketing, 3 or	
HRM 3920	Human Resource Mgt, 3 . . . . .	3

Departmentally approved electives from one of the three areas listed below. A listing of courses is available from the Chair of the Department . . . . . 9

Area 1 Automotive Technology

Area 2 Design Technology

Area 3 Service Management

#### MINOR NOT REQUIRED

#### GENERAL EDUCATION REQUIREMENTS (pages 34-43) . . . . . 48

COMM 1000	Div. I B (required) . . . . .	3
MATH 1111	Div. I C (required) . . . . .	3
CHEM 1103	Div. II A (required) . . . . .	3
PHYS 1104	Div. II A (required) . . . . .	4
BTE 1210	Div. II A (required) . . . . .	2
ECON 1010	Div. II B (required) . . . . .	3
PSY 1100	Div. II C (required) . . . . .	3
ICAP 4112	Div. IV B (required) . . . . .	3

#### UPPER-LEVEL ELECTIVES . . . . . 3

#### MINIMUM TOTAL . . . . . 128

**POWER AND TRANSPORTATION**

**Minor for a Bachelor's Degree**

UCM does not confer teacher certification for this minor (162)

Sem. Hours

**MINOR REQUIREMENTS . . . . . 22**

PR&T 1010	Power Mechanics . . . . .	3
PR&T 4032	Hydraulics & Pneumatics . . . . .	3
Elect one of the following groups . . . . .		16
<b>General</b>		
AVIA 1020	Aeronautics . . . . .	2
PR&T 4410	Intermodal Surface Trans. . . . .	3
Departmentally approved electives in		
Power & Transportation . . . . .		11
<b>Automotive</b>		
PR&T 2110	Eng. Theory & Maintenance . . . . .	4
PR&T 2130	Auto. Electrical Systems . . . . .	4
PR&T 2132	Fuel Sys. & Emission Control . . . . .	4
PR&T 3120	Steering & Susp. Systems . . . . .	4

**General**

**PR&T 1010 Power Mechanics (3: 2 lecture, 1 lab)** Power sources and methods of transferring power. Theory of internal combustion engines. Laboratory experiences with emphasis on small gasoline engines. Each student must disassemble and overhaul at least one engine.

**PR&T 3010 Transportation Systems (3)** Characteristics and significance of transportation technology as applied to people, their society and economic systems, analyzed through a review of water, highway, rail, air and pipeline transport.

**PR&T 4025 Motorcycle Systems Maintenance (3: 2 lecture, 1 lab)** Theory, maintenance and repair of motorcycles and systems. Special emphasis on diagnostics, repair, and adjustment procedures. Students will need to provide a motorcycle.

**PR&T 4032 Hydraulics and Pneumatics (3: 2 lecture, 1 lab)** Fluid power principles with practical application of hydraulics, pneumatics, and fluidics. Prerequisites: MATH 1111 or INDT 1040.

**PR&T 4038 Advanced Hydraulics (3)** Hydraulic system analysis and troubleshooting along with servo and electronic control theory and application. Prerequisite: PR&T 4032.

**Automotive**

Each student enrolled in an automotive course is expected to pay a shop fee to cover the cost of consumable supplies which cannot be conveniently charged to a particular project. In addition, each student will provide appropriate vehicle(s) with necessary materials and replacement parts for assigned laboratory experiences.

**PR&T 2110 Engine Theory and Maintenance (4: 3 lecture, 1 lab)** Examines through practical application the theories of operation, construction, maintenance, disassembly, and assembly of motor vehicle engines and their supporting systems. Emphasis on operating principles and maintenance procedures. Prerequisite: PR&T 1010 or background experience.

**PR&T 2130 Automotive Electrical Systems (4: 2 lecture, 2 lab)** Procedures for testing, adjusting, repairing, and servicing of electrical components in automotive charging, starting, ignition, and accessory systems. Prerequisite: PR&T 1010 or concurrently.

**PR&T 2132 Fuel Systems and Emission Controls (4: 2 lecture, 2 lab)** Fuel and related emission control systems. Basic carburetion, fuel injection, and emission control devices. Prerequisite: PR&T 2130.

**PR&T 2150 Mobile Heating, Ventilating, Air-Conditioning (Mobile HVAC) (3: 2 lecture, 1 lab)** Designed to introduce technicians to mobile heating, ventilation, and air-conditioning systems.

**PR&T 3110 Automotive Engine Overhaul (4: 1 lecture, 3 lab)** Theory and practice of disassembling, cleaning, inspecting, and repairing automotive engines. Removal and overhaul of engine according to accepted industry practice is a required activity for each student in the course. Prerequisite: PR&T 2110 or AGRI 3200.

**PR&T 3120 Steering and Suspension Systems (4: 2 lecture, 2 lab)** Classroom and laboratory activity in the diagnosis, service and repair of automotive steering and suspension systems. Prerequisite: PR&T 1010 or background experience.

**PR&T 3124 Automotive Braking Systems (4: 2 lecture, 2 lab)**

Classroom and laboratory activity in the diagnosis, service and repair of automotive braking, anti-lock braking, traction control and stability control systems. Prerequisite: PR&T 1010.

**PR&T 3130 Computerized Engine Diagnostics (4: 2 lecture, 2 lab)** Utilization of computerized diagnostic methods and equipment in testing and servicing computerized engines in conjunction with automotive tune-up. Prerequisite: PR&T 2132.

**PR&T 3134 Advanced Powerplant Systems (4: 3 lecture, 1 lab)** Engine Performance testing as it relates to the automobile. Includes the study of advanced equipment used to test systems and advanced diagnostic testing procedures. Prerequisite: PR&T 3130.

**PR&T 3140 Transmissions and Drivelines (4: 2 lecture, 2 lab)** In-depth classroom and laboratory experiences in the diagnosis, service and repair of transmissions and drivelines. Prerequisite: PR&T 1010 or AGRI 3200.

**PR&T 3150 Diesel Technology (3: 2 lecture, 1 lab)** Survey of diesel engine theory, diagnosis, service and maintenance with emphasis in diesel fuel systems, injection pump designs, construction, operation, and maintenance. Prerequisite: PR&T 2110 or AGRI 3200.

**Transportation**

**PR&T 4410 Intermodal Surface Transportation (3)** Surface transportation (motor vehicle, pipeline, rail, and water) in the United States as seen from an integrated, intermodal viewpoint. Major aspects include systems analysis, organization, operations, financing, research and development, training, and regulation. Economic, social, and political factors are considered.

**Integrative Studies Capstone**

**ICAP 4112 Automotive Systems for Contemporary Society\* (3)** Integration of communication, technology, sociology, economics, and ecology with automotive engineering, management and service, emphasizing their reciprocal effects on each other. Prerequisite: senior standing in automotive technology.

\*Not available for graduate credit.

**COMPUTER-AIDED DRAFTING AND DESIGN TECHNOLOGY**

**Functional Major, Bachelor of Science Degree (43-231)**

The graduate with a Bachelor of Science Degree in Computer-Aided Drafting and Design Technology will use the knowledge and skills obtained in the program to:

- Apply current computer-aided drafting and design concepts and technical knowledge to interpret and develop orthographic, pictorial, and schematic drawings.
- Develop sketching, manual drafting, and computer aided drafting skills to create orthographic, pictorial, and schematic drawings.
- Integrate related technical and scientific support skills and concepts into computer-aided drafting and design technology applications.
- Demonstrate oral, written, graphic and numerical communication skills applicable to individual and group activities utilized in computer-aided drafting and design and related technologies.
- Apply critical and creative thinking as needed for problem solving applicable to computer-aided drafting and design and related technologies.
- Apply principles of management of personnel, equipment, materials, and processes applicable to computer-aided drafting and design and related technologies.
- Display a value system based on personal characteristics and ethical behavior appropriate for professions in computer-aided drafting and design and related technologies.

Sem. Hours

**FUNCTIONAL MAJOR REQUIREMENTS . . . . . 70**

GRAP 1100	Orientation to Drafting . . . . .	1
GRAP 1105	Basic AutoCAD . . . . .	1
GRAP 1110	Fundamentals of Drafting . . . . .	2
GRAP 1120	Machine Drafting . . . . .	3

GRAP 2130	Technical Illustration . . . . .	3
GRAP 2150	Descriptive Geometry for Engineering Technology . . . . .	3
GRAP 2160	Structural Drafting . . . . .	3
GRAP 2170	Intro. to Computer-Aided Drafting . . . . .	2
GRAP 2171	Introduction to MicroStation . . . . .	2
GRAP 3140	Seminar In Drafting . . . . .	2
GRAP 3150	Civil Drafting . . . . .	3
GRAP 3170	Computer Drafting Systems . . . . .	3
GRAP 3175	Managing Computer Applications for Drafting . . . . .	3
GRAP 4170	CADD for Engineering Technology . . . . .	3
GRAP 4180	Industrial Design . . . . .	3
T&OE 3022	Internship In Technology . . . . .	1
T&OE 3060	Technical Writing . . . . .	3
CMGT 2020	Mechanics of Materials . . . . .	3
MMGT 2530	Machine Tool Technology . . . . .	3
MATH 1112	College Trigonometry . . . . .	2
Electives from the following . . . . .		6
MGT 3310	Prin. of Management . . . . .	3
HRM 3920	Human Resource Mgt., 3 or	
INDM 4210	Industrial Management, 3 . . . . .	3
INDM 4260	Organizational Dynamics. . . . .	3
Electives from one of the following areas . . . . .		15
Area 1 Mechanical		
Area 2 Architectural		
Area 3 CAD/CAM		
Area 4 Civil/GIS		
Area 5 Computer Graphics		
Area 6 Management & Support		
<b>MINOR NOT REQUIRED</b>		
<b>GENERAL EDUCATION REQUIREMENTS (pages 34-43) . . . . .</b>		<b>48</b>
MATH 1111	Div. I C (required) . . . . .	3
PHYS 1104	Div. II A 1 (required) . . . . .	4
EASC 1004	Div. II A 1 (required for Architectural and Civil/ GIS areas) . . . . .	4
BTE 1210	Div. II A 2(required) . . . . .	2
ART 1800	Div. II C (required) . . . . .	3
IGEN 3116	Div. IV A (required) . . . . .	3
<b>FREE ELECTIVES . . . . .</b>		<b>6</b>
<b>MINIMUM TOTAL . . . . .</b>		<b>124</b>

**Computer-Aided Drafting and Design**

**GRAP 1100 Orientation to Drafting (1)** Orientation to the philosophy, development, and current trends in the professional preparation for careers in drafting.

**GRAP 1105 Basic AutoCAD (1)** Basic application of AutoCAD to the solution of technical drawing problems for industry. Prerequisite: GRAP 1110 must be taken concurrently or consent of instructor.

**GRAP 1110 Fundamentals of Drafting (2)** Introduction to the graphic language of technical drawing and communications. Multiview and pictorial technical drawing using freehand, manual and computer-aided drafting techniques. Prerequisite: GRAP 1105 or concurrently or consent of instructor.

**GRAP 1120 Machine Drafting (3)** Working drawings of machine parts, using tables, tolerancing, sheet metal and welding drawings. Prerequisite: GRAP 1110.

**GRAP 2130 Technical Illustration (3)** Pictorial representation using various illustrative media. Prerequisite: GRAP 1110.

**GRAP 2150 Descriptive Geometry for Engineering Technology (3)** A basic course in graphic science for engineers, drafters or drafting teachers. Prerequisite: GRAP 1110.

**GRAP 2160 Structural Drafting (3)** A study of structural systems utilizing metal, concrete, masonry and wood, and including the development of appropriate engineering calculations and working drawings. Prerequisite: GRAP 1110.

**GRAP 2170 Introduction to Computer-Aided Drafting (2)** Fundamental applications of computer-aided drafting to the solution of two-dimensional drawing problems for industry. Prerequisites:

GRAP 1105 and GRAP 1110.

**GRAP 2171 Introduction to MicroStation (2)** Applications of MicroStation to the solution of technical drawing problems for industry.

**GRAP 3124 Production Design Drafting (3)** Tool and die, jig and fixture, casting, weldment, and hydraulic/pneumatic plumbing design problems are studied and drawings are developed using manual and computer-aided drafting techniques. Prerequisite: GRAP 1120.

**GRAP 3126 Machine Design (3)** Drafting problems involving the elements of the designing and/or redesigning of mechanisms and machines. Prerequisites: GRAP 1120 and GRAP 2150.

**GRAP 3140 Seminar in Drafting (1)** Seminar for study of current topics in drafting through discussions, activities and outside speakers. *May be repeated for a maximum of 3 semester hours.* Prerequisites: GRAP 1100 and GRAP 1110.

**GRAP 3145 Seminar in Drafting/Design Engineering Technology (0.5)** Seminar for study of current topics in Drafting/Design Engineering Technology through discussions, activities, and outside speakers. *May be repeated for a maximum of 2 semester hours.*

**GRAP 3150 Civil Drafting (3)** Civil drafting problems using survey data applicable to grading cuts and fills, drainage systems, municipal utilities, plotting and zoning are studied. Drawings are developed using manual and computer-aided drafting techniques. Prerequisite: GRAP 1110.

**GRAP 3160 Residential Architectural Drawing (3)** Principles of planning residential structures including selection of materials, methods of construction, and development of detailed working drawings. Prerequisite: GRAP 1110.

**GRAP 3170 Computer Drafting Systems (3)** Computer-aided drafting involving operating systems, programming languages, macros, networks, and customization of software. Prerequisite: GRAP 2170.

**GRAP 3175 Managing Computer Applications for Drafting (3)** Management of computer-aided drafting and design hardware, applications software, laboratories, and the media and methods of reproducing engineering documents. Prerequisite: GRAP 2170.

**GRAP 4114 Advanced Technical Problems in Drafting (1-3)** Individual or group work on advanced technical problems in drafting. Provide exploration of content not available through normal course offerings. *May be repeated for a maximum of 6 semester hours.* Prerequisites: 2.5 GPA, written contract/proposal with objectives and written department consent.

**GRAP 4124 Geometric Dimensioning and Tolerancing Principles for Engineering Technology (2)** Basic theory and application of geometric dimensioning and tolerancing practices applicable to working drawings of machine parts. Prerequisite: GRAP 1120.

**GRAP 4162 Commercial Architectural Drawing\* (3)** Light commercial architectural plans and problems are studied and drawings are developed using manual and computer-aided drafting techniques. Prerequisite: GRAP 3160. \*Not available for graduate credit.

**GRAP 4170 Computer-Aided Drafting and Design for Engineering Technology (3)** Advanced industrial applications of computer-aided drafting systems. Three dimensional modeling and design using interactive graphics techniques and standard design elements. Prerequisite: GRAP 2170.

**GRAP 4175 Advanced 3D Analysis and Rapid Prototyping (3)** Advanced course which surveys the application of computer drafting and design systems and how they relate to 3D analysis and rapid prototyping. Prerequisites: GRAP 1110, GRAP 2170, GRAP 4170, CMGT 2020.

**GRAP 4180 Industrial Design (3)** Study and application of the design process and design principles related to industrial products. Prerequisite: GRAP 1110.

**GRAP 4570 Computer Graphics (3)** Computer generated presentation graphics utilizing a variety of software programs on numerous hardware configurations. Experiences will include production of laser prints, ink-jet prints, transparencies, color slides, and plots.



**CONSTRUCTION MANAGEMENT**

Functional Major, Bachelor of Science Degree (43-239)

The graduate with a Bachelor of Science degree with a functional major in Construction Management will use the knowledge and skills obtained in the program to:

- Apply oral, written, graphic and listening skills as each enhances the behavioral principles or attitude and effective communications.
- Apply scientific knowledge of the mathematical, physical, and construction sciences to the economic utilization of materials and forces of nature affecting construction practice. To implement the various forms of technology necessary to complete the task of construction management, utilizing the computer and electronic data processing through complete word-processing, data bases, spreadsheets, applications, and the information highway.
- Apply the principles and philosophy of management systems, cost accounting, and economics to the construction industry, including the interpretation of contracts, the values of team building, and the Construction Code of Conduct established by the industry through the assistance of the American Institute of Constructors.
- To identify the appropriate construction management principles necessary to complete the site plans, evaluating vendors and subcontractors, writing field purchase orders, change orders, subcontract agreements, shop drawings, as built drawings daily logs and job diaries, construction reports and progress payment requests.
- To execute construction safety standards including the ability to interpret the OSHA construction standards, establish safety and health procedures on the job site, and perform hazard material and process analysis.
- Understand the science of materials and methods of construction as they apply to the Construction Specifications Institute (CSI) Divisions designated for the construction industry. Including terminology, standard designations, sizes, and quality testing.
- Complete the estimating, cost accounting, and bidding sequence necessary for construction job acquisition and completion. To prepare and complete cost control processes including the ability to establish a budget, prepare cost reports, and forecast expenditures.
- Perform quantity take-off, interpret construction specification, identify appropriate codes, identify site conditions, apply value engineering, and develop detailed project proposals. To prepare a complete construction project schedule, develop a procurement time table, establish a project manual and plan showing the logical sequence of activities and time duration in order to monitor progress and update schedules.

Sem. Hours

**FUNCTIONAL MAJOR REQUIREMENTS . . . . . 81**

CMGT 1300	Intro. to Construction Management. . . . .	2
CMGT 1301	Sem. in Construction Mgt. . . . .	2
CMGT 2020	Mechanics of Materials . . . . .	3
CMGT 2310	Construction Plans & Specs . . . . .	3
CMGT 2325	Project Cost Estimating . . . . .	3
CMGT 2340	Surveying & Construction Layout . . . . .	3
CMGT 3020	Applied Strength of Materials . . . . .	3
CMGT 3320	Prin. of Construction Mgt. . . . .	3
CMGT 3330	Building Codes & Code Adm. . . . .	3
CMGT 3350	Building Struct.: Meth & Mat. . . . .	3
CMGT 3355	Const. Planning & Sched. . . . .	3
CMGT 4310	Construction Safety . . . . .	3
CMGT 4325	Advanced Est. & Cost Analysis . . . . .	3
CMGT 4330	Mechanical Systems for Buildings . . . . .	3
CMGT 4355	Computer-Based Project Control. . . . .	3
MMGT 2040	Engineering Material Science . . . . .	4
GRAP 1110	Fundamentals of Drafting . . . . .	2
T&OE 3022	Internship in Technology . . . . .	1
EASC 2100	Engineering Geology . . . . .	4
MATH 1112	College Trigonometry . . . . .	2
MATH 1131	Applied Calculus . . . . .	3
ACCT 2101	Principles of Financial Acct. . . . .	3
FIN 2801	Business Statistics I . . . . .	3
BLAW 2720	Legal Env. of Business . . . . .	3
GRAP 2160	Structural Drafting, 3 or	

GRAP 3150	Civil Drafting, 3 or	
GRAP 3160	Residential Arch. Drawing, 3 . . . . .	3
MGT 3310	Principles of Management, 3 or	
INDM 4210	Industrial Management, 3 . . . . .	3
MKT 3400	Principles of Marketing, 3 or	
ACCT 2102	Prin. of Managerial Acct., 3 . . . . .	3
HRM 3920	Human Resource Mgt., 3 or	
INDM 4260	Organizational Dynamics, 3. . . . .	3

**MINOR NOT REQUIRED**

**GENERAL EDUCATION REQUIREMENTS (pages 34-43) . . . . . 48**

MATH 1111	Div. I C (required) . . . . .	3
PHYS 1103	Div. II A (required) . . . . .	3
EASC 1004	Div. II A (required) . . . . .	4
BTE 1210	Div. II A (required) . . . . .	2
ECON 1010	Div. II B (required) . . . . .	3
ICAP 4109	Div. IV B (required). . . . .	3

**MINIMUM TOTAL . . . . . 129**

**Construction Management**

**CMGT 2020 Mechanics of Materials (3)** An introduction to the basic concepts of strengths of materials, statics and dynamics as they relate to the design and analysis of materials, machines, and structures. Prerequisite: MATH 1112.

**CMGT 3010 Man and Construction (2)** A look at the construction industry as it relates to the consumer.

**CMGT 3020 Applied Strength of Materials (3)** Selection and application of sizes, shapes, and materials required for the construction of a member of a machine or structure in order to resist an applied load in a safe and economical manner. Prerequisites: CMGT 2020 and MMGT 2040.

**CMGT 1300 Introduction to Construction Management (2)** General survey of the organization and functioning of the construction industry: legal, ethical, business, and management aspects.

**CMGT 1301 Seminar in Construction Management (0.5)** Forum to provide students an opportunity to learn about current events in the construction industry using guest speakers, open discussion and field trips. *Must be repeated 4 times*; One (1) credit must be generated after student has reached 60 semester hours of study.

**CMGT 2310 Construction Plans and Specifications (3)** An introductory course to construction management which provides a survey of print reading and specification interpretation for light, civil, heavy highway and utility construction. Only offered Spring semester.

**CMGT 2325 Project Cost Estimating (3)** A quantitative take-off and survey of materials and productivity standards for industrial projects. Prerequisite: CMGT 2310 or GRAP 1110.

**CMGT 2340 Surveying and Construction Layout (3)** Theory and practice of plane, topographic, and construction surveying and layout including care and use of instruments, note taking and computations. Prerequisite: MATH 1112.

**CMGT 3320 Principles of Construction Management (3)** Principles of construction contracting with related information on forms of business ownership, management, land development, labor relations, and project safety.

**CMGT 3330 Building Codes and Code Administration (3)** In-depth study of national, state, and local regulations applicable to specification and performance of building construction standards. Prerequisite: CMGT 2310, or consent of instructor.

**CMGT 3350 Building Structures: Methods & Materials (3)** The types and processes of building structures including the materials and methods as applied to the structures: wood, steel, and concrete. Prerequisites: MMGT 2040, CMGT 2310, and CMGT 2340.

**CMGT 3355 Construction Planning and Scheduling (3)** Theory and use of construction and production scheduling to control the acquisition, movement, storage, and utilization of workers and/or material with emphasis given to the Critical Path Method (CPM). Computer programming background recommended. Prerequisite: GRAP 1110 or CMGT 2310.

**CMGT 4310 Construction Safety (3)** Construction safety and health conditions on the job as they relate to workers, supervisors, inspectors, and the public. Prerequisites: CMGT 2310 or junior standing, or consent of instructor.

**CMGT 4325 Advanced Estimating and Cost Analysis (3)** An advanced course in construction cost estimating utilizing the computer and associated professional software to assist the estimator. Prerequisites: CMGT 2310 and CMGT 2325.

**CMGT 4330 Mechanical Systems for Buildings (3)** Mechanical systems integrated with buildings and other equipment. Prerequisites: CMGT 2310 or junior standing.

**CMGT 4340 Solar Energy for Building Construction (3)** An analysis of solar energy systems and components as they apply to types of structure, sites, and climate regions.

**CMGT 4355 Computer-Based Project Control (3)** An advanced course in construction project scheduling utilizing the computer and associated professional software to assist the project scheduler. Prerequisites: CMGT 3355.

**CMGT 4380 Heavy Equipment (3)** Survey of the types, uses, and economics of heavy equipment utilized in the construction industry. Prerequisites: CMGT 2310, MATH 1111.

**Integrative Studies Capstone**

**ICAP 4109 Construction Operations\* (3)** A detailed study of the knowledge, processes and operational procedures involved in a commercial construction project. Prerequisites: CMGT 2310, CMGT 2325, CMGT 3320 and CMGT 3355 and senior standing. \*Not available for graduate credit.

**ELECTRONICS ENGINEERING TECHNOLOGY**

Functional Major, Bachelor of Science Degree

(43-227)

This program has been placed in abeyance. See the Department Chair for more information.

**Electronics Engineering Technology**

Some EET courses have a zero-credit laboratory requirement. The majority of the EET courses utilize an open lab system (where the student is expected to complete laboratory work by the instructor's due date on his/her own time, as class schedules and lab equipment availability permit).

**EET 2300 Calculus for Electronics Engineering Technology (3)** Methods of integration, partial derivatives, double integrals, derivatives and integrals in polar coordinates; empirical curve fitting, power series expansions, first and second-order differential equations; and use of software. Prerequisite: INDT 2040.

**EET 2320 Advanced Digital Circuitry (3)** Design of sequential networks, iterative networks, sequential networks with MSI integrated circuits, sequential networks using PLDs, state machines, asynchronous sequential networks, use of software for design analysis. Prerequisite: ET 1050.

**EET 2330 Transform Analysis (3)** Waveform analysis, Laplace transforms and their application to circuit analysis; Fourier analysis, use of z-transforms in discrete-time systems, and analysis software. Prerequisites: INDT 2040 and ET 2048.

**EET 3048 Control of Electrical Machinery (4:3 lecture, 1 lab)** Analysis and application of electrical and electronic controls for industrial equipment. Programmable Logic Controllers are emphasized as well as techniques in engineering design. Prerequisite: ET 1010 or ET 1027 or consent of instructor.

**EET 3310 Microprocessor Systems Design (3)** Microprocessor/microcontroller internal architectures and timing; single and multiprocessor bus structures; memory subsystem design, designing polled I/O hardware/firmware, interrupt driven I/O hardware/firmware design, DMA, design of multiprocessor systems, segmentation and memory management, bit-sliced architectures, and use of manufacturer data sheets and application notes. Prerequisites: INDT 2040 and ET 2060.

**EET 3320 Introduction to Data Communications (3)** Fundamentals of data transmission, data encoding, multiplexing techniques, circuit and packet switching; local area networking, ISDN, frame relay, ATM, local area networking, and protocol analysis. Prerequisites: ET 2060, EET 2330 or concurrently.

**EET 3330 Introduction to Communication Systems (3)** Signal spectra, noise, AM transmitters, AM superheterodyne receivers, sideband systems, frequency modulation, phase modulation, phase-locked loops, FM transceivers, transmission lines, waveguides, radiowave propagation, antennas, and use of CAE software. Prerequisites: EET 2330 and EET 3310.

**EET 3340 Control Systems Design (3)** Introduction to analog control systems analysis and design including control system components, models of physical systems, state-variable models, system responses, control system characteristics, stability analysis, and use of CAE software. Prerequisites: ET 2058, EET 2300 or concurrently, and EET 2330.

**EET 4300 Special Projects in Electronics Engineering Technology\* (1-3)** Investigation of contemporary problems and issues in electronics engineering technology by selected individuals or groups. *May be repeated for a maximum of 6 semester hours.* \*Not available for graduate credit.

**EET 4320 Advanced Control Systems Design\* (3)** Root-locus analysis and design; frequency response, modern control design, discrete-time systems, sampled-data systems, analysis and design of digital control systems; an introduction to nonlinear system analysis, and use of CAE software for the design, analysis, design, and simulation of control systems. Prerequisite: EET 3310 and EET 3340. \*Not available for graduate credit.

**EET 4330 Digital Signal Processing Systems Design\* (3)** An introduction to the engineering fundamentals of digital signal processing. Emphasis is placed on the design, implementation, and testing of finite impulse response filters, infinite impulse response filters, adaptive digital filters, and sampling rate converter-decimators using DSP software design packages. Prerequisites: ET 2065, EET 2320, EET 2330, and EET 3310. \*Not available for graduate credit.

**ELECTRONICS TECHNOLOGY**

Functional Major, Bachelor of Science Degree

(43-221)

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

- Research, prepare and present both oral and written reports on technical or management subjects related to his/her area of specialization
- Identify, analyze and solve technical or management problems related to his/her field of specialization
- Function effectively as a participating member of a work group to accomplish a particular goal
- Demonstrate desirable work habits and professional and conscientious attitudes in his/her particular areas of instruction through participation in professional activities and organizations, and leadership activities both in and out of the classroom
- Demonstrate a mastery of skill beyond the entry level related to one or more areas of technical, management or marketing specialties in the major area of study
- Demonstrate technical and general knowledge required in occupational work areas related to the major field of study.

Sem. Hours

**FUNCTIONAL MAJOR REQUIREMENTS . . . . . 69**

<b>CORE</b>		
ET	1026	DC Circuit Analysis . . . . . 4
ET	1027	AC Circuit Analysis . . . . . 4
ET	1050	Digital Principles & Applications . . . . . 4
ET	2048	Active Electronic Devices . . . . . 4
ET	2060	Microprocessors: Theory & Appl. . . . . 4
ET	2065	Computer Programming for Electronics Technology . . . . . 4
T&OE	3060	Technical Writing . . . . . 3

AND

42 credit hours of courses from Area 1 AND/OR Area 2

Area 1 Electrical/Electronic Communication Technology			
ET	3014	Analog-Digital Circuitry	4
ET	3017	Industrial Electronics	4
ET	3020	Circuit Analysis & Implementation	4
ET	3041	Communication Systems	4
INDT	1042	Technical Mathematics II	3
INDT	2040	Calculus for Technology	3
MGT	3310	Principles of Management 3, or	
INDM	4210	Industrial Management, 3	3
Electives in Management			6
Departmentally approved elective (4) credit hours must be at the 3000 and/or 4000 level.)			11

OR

Area 2 Computer/Networking Electronics Technology			
NET	1060	Introduction to Networking Basics	3
NET	1061	Routers and Routing Basics	3
NET	2058	Computer Technologies	3
NET	2060	Switching Basics & Intermediate Routing	3
NET	2061	WAN Technologies	3
NET	4060	Advanced Network Routing	3
NET	4061	Remote Access	3
NET	4062	Advanced Switching	3
NET	4063	Network Support	3
Electives from the following:			
NET	4040	Fundamentals of Network Operating Sys.	3
NET	4042	Network Servers and Service	3
NET	4043	Network Servers and Infrastructure	3

OR

NET	3000	Fundamentals of Wireless Networks	3
NET	3062	Network Design	3
NET	4064	Advanced Network Design	3

AND

Departmentally approved electives (40 credit hours must be at the 3000 and/or 4000 level) . . . . . 6

**MINOR NOT REQUIRED**

**GENERAL EDUCATION REQUIREMENTS (pages 34-43) . . . . . 48**

COMM	1000	Div. I B (required)	3
MATH	1111	Div. I C (required)	3
CHEM	1104	Div. II A (required)	4
PHYS	1104	Div. II A (required)	4
IGEN	3116	Div. IV A (required) 3, or	
ICAP	4110	Div. IV B (required) 3,	3

**FREE ELECTIVES (see statement of policy) . . . . . 7**

**MINIMUM TOTAL . . . . . 124**

**ELECTRONICS TECHNOLOGY**

**Minor for a Bachelor's Degree**

UCM does not confer teacher certification for this minor (220)

Sem. Hours

**MINOR REQUIREMENTS . . . . . 22-24**

**Area 1**

ET	1026	DC Circuit Analysis	4
ET	1027	AC Circuit Analysis	4
ET	1050	Digital Principles & Applications	4
ET	2048	Active Electronic Devices	4
MATH	1112	College Trigonometry ,2 or	
INDT	1042	Technical Mathematics, 3	2-3
Upper-level electives in electronics technology			4

**Area 2**

NET	1060	Introduction to Networking	3
NET	1061	Routers & Router Basics	3
NET	2060	Switching Basics & Intermediate. Routing	3
NET	2061	WAN Technologies	3

NET	4060	Advanced Network Routing	3
NET	4061	Remote Access	3
NET	4062	Advanced Switching	3
NET	4063	Network Support	3

UNIVERSITIES STUDIES REQUIREMENTS (MATH 1111 Div I C is required).

**Electronics Technology**

Some ET courses have a zero-credit laboratory requirement. Labs are scheduled for ET 1026, ET 1027, ET 1050, ET 2048, ET 2058, ET 2060, ET 2065, ET 3014, ET 3020, and ET 3041. The majority of the remaining ET courses utilize an open lab system (where the student is expected to complete laboratory work by the instructor's due date on his/her own time, as class schedules and lab equipment availability permit).

**ET 1010 Applied Electricity (3)** Provides basic theory together with appropriate shop experiences for introductory technical training in electrical principles. Includes basic circuits, Ohm's Law, A.C. and D.C. theory, as well as generation and application of electrical energy.

**ET 1020 General Electronics (3)** A general overview of several areas of electronics including the study of electronic measurements, active and passive devices, receiver and transmitter theory, basic digital theory, and electronic controls. Prerequisite: Not open to electronics majors or minors.

**ET 1026 DC Circuit Analysis (4: 3 lecture, 1 lab)** Analysis and application of D.C. principles to passive networks. Laboratory experience in the use of basic test instruments. Prerequisite: INDT 1040 or MATH 1111 may be taken concurrently.

**ET 1027 AC Circuit Analysis (4: 3 lecture, 1 lab)** Application of alternating current principles to resistive, capacitive, and inductive circuits. Phasor analysis of series-parallel impedance. Resonance and filters are covered. Laboratory experiments using typical test instruments. Prerequisites: MATH 1112 or INDT 1042 or either concurrently and ET 1026.

**ET 1050 Digital Principles and Applications (4: 3 lecture, 1 lab)** Binary numbers, logic gates, Boolean algebra, parity generation and detection, arithmetic circuits, flip-flops and latches, and troubleshooting digital circuits using current industry standard techniques.

**ET 2020 Industrial Electricity (3)** Electrical practices as applied to modern industrial applications with an emphasis on the National Electrical Code, wiring diagrams, electrical distribution, and electrical/electronic control devices. Prerequisite: ET 1010 or ET 1027 or prior experience and consent of the instructor.

**ET 2048 Active Electronic Devices (4: 3 lecture, 1 lab)** Theory, operation, and analysis of Integrated Active Devices and Discrete Semiconductor Active Devices. Basic digital and common analog circuit configurations. Prerequisite: ET 1027 or concurrently.

**ET 2058 Operational Amplifiers-Theory and Applications (4: 3 lecture, 1 lab)** A study of integrated circuit operational amplifiers, their characteristics and a wide range of applications. Construction and testing of numerous circuits. Prerequisite: ET 2048.

**ET 2060 Microprocessors: Theory and Application (4: 3 lecture, 1 lab)** The fundamental concepts of microprocessors including software development and hardware design. Design of input/output interface circuits together with numerous applications to industrial controls. Prerequisite: ET 1050 or concurrently.

**ET 2065 Computer Programming for Electronics Technology (4: 3 lecture, 1 lab)** Contemporary computer programming languages for electronics technology. Programming techniques and skills as applied to troubleshooting industry standard computer hardware. *May be repeated. If repeated, a different programming language must be studied.* Prerequisite: ET 1050 or concurrently.

**ET 3014 Analog-Digital Circuitry (4: 3 lecture, 1 lab)** Counters, shift registers, monostable multivibrators, memories, A/D and D/A converters, phase-locked loops, digital simulation software, and troubleshooting digital circuits using current industry standard techniques. Prerequisite: ET 1050.

**ET 3017 Industrial Electronics (4: 3 lecture, 1 lab)** Analysis of selected industrial controls and components to include transducers, sensors, time delay circuits, motor controls, and thyristors. Emphasis on commercial programmable logic controller installation and programming. Practical applications of industrial electronic devices and systems and further development of troubleshooting skills.

Prerequisite: ET 1010 or ET 1026 or consent.

**ET 3020 Circuit Analysis and Implementation (4: 3 lecture, 1 lab)** Research, analyze, and construct a variety of circuits using state-of-the-art technologies. Students will use the internet and published materials to construct projects. Prerequisites: ET 2048 or consent of instructor.

**ET 3022 AC and DC Machines (4: 3 lecture, 1 lab)** Basic principles of alternating and direct current motors and generators including construction, theory of operation, industrial uses and maintenance considerations. Prerequisite: ET 2048 or consent of instructor.

**ET 3034 Electronic Instruments and Measurements (3)** Design, operation and calibration of a variety of test instruments. Emphasis will be upon measurement procedures not normally practiced in introductory electronics courses. Prerequisite: ET 1050 or ET 2048 or concurrently.

**ET 3038 Audio Systems (4: 3 lecture, 1 lab)** Principles of sound and acoustics: audio amplifiers, microphones, speakers, mixers, and equalizers; magnetic tape and disc recording; audio measurement techniques. Prerequisite: ET 2058 or concurrently.

**ET 3041 Communication Systems (4: 3 lecture, 1 lab)** A study of receiver and transmitter circuits and systems. Modulation methods, signal propagation, and antenna design. Practical alignment methods, measurement techniques, and troubleshooting procedures. Preparation for the F.C.C. commercial license. Prerequisite: ET 2048 or concurrently.

**ET 4000 Special Projects in Electronics Technology (1-3)** Investigation of contemporary problems and issues in electronics technology by selected individuals or groups. *May be repeated for a maximum of 6 semester hours.*

**ET 4014 Advanced Technical Problems in Electronics (1-4)** Individual/group work on recent developments and advanced technical concepts. Experimentation and technical exploration of content not available through formal course offerings. *May be repeated for a maximum of 8 semester hours.*

**ET 4031 Introduction to Process Control\* (4: 3 lecture, 1 lab)** Implementation, evaluation, tuning and troubleshooting of process control systems. Selection of sensing devices and final control elements. Emphasis on laboratory activities. Application of microprocessor-based systems including programmable controllers. Prerequisites: ET 2020 or consent of instructor. \*Not available for graduate credit.

**ET 4044 Video Systems\* (4: 3 lecture, 1 lab)** Television cameras and the composite video signal. VHF, UHF, cable, and satellite TV distribution systems. Television receiver and monitor circuitry and troubleshooting techniques. Prerequisite: ET 2048. \*Not available for graduate credit.

**ET 4048 Advanced Communication Systems\* (4: 3 lecture, 1 lab)** Mobile radio repeater systems and signaling modes; spread spectrum communications; commercial broadcast installations; microwave signal sources; amplifiers; waveguides and cavities; antennas and radar systems. Prerequisite: ET 3041. \*Not available for graduate credit.

### Networking

**NET 1010 Fiber Optics Essentials (4: 3 lecture, 1 lab)** Basic fiber optics theory and applications. Areas covered include transmission of data, optical cables, light sources, detectors, splicing, cable installation and test equipment.

**NET 1060 Introduction to Networking Basics (3: 2 lecture, 1 lab)** Fundamentals including networking and Ethernet fundamentals, media, IP Addressing, routing fundamentals and troubleshooting. Hands-on experiences involving cabling, routers and router configuration.

**NET 1061 Routers and Routing Basics (3: 2 lecture 1 lab)** Router and routing configuration fundamentals and protocols, access control lists and basic router troubleshooting, hands-on experiences with routers. Prerequisite: NET 1060.

**NET 2058 Computer Technologies (3)** Introduction to computer architectures and operating systems. Includes PC hardware and DOS/Windows module over basic operating system fundamentals.

**NET 2060 Switching Basics and Intermediate Routing (3: 2 lecture, 1 lab)** Advanced IP addressing, intermediate routing protocols, switches, Virtual LANs, Spanning Tree and VLAN Trunking Protocols. Prerequisite: NET 1061.

**NET 2061 WAN Technologies (3: 2 lecture, 1 lab)** Advanced IP addressing, Port address Translation, WAN technology and terminology, management, and introduction to optical networking. Prerequisite: NET 2060.

**NET 3000 Fundamentals of Wireless Networks (3)** A comprehensive overview of wireless technologies, devices, security, design, and best practices with a particular emphasis on real world applications and skills is covered utilizing Cisco Systems hardware. Prerequisite: NET 2060 or concurrent or instructor consent.

**NET 3010 Fiber Optics Advanced (4: 3 lecture, 1 lab)** Advanced fiber optics theory and applications. Areas covered include transmission of data, optical cables, light sources, detectors, and troubleshooting. Prerequisite: NET 1010.

**NET 3062 Network Design (3)** Cisco Systems' design principles, methodology, and structure models for Local Area Networks and Wide Area Networks, including Virtual Private Network and backup design considerations. Prerequisite: NET 2061.

**NET 3065 Converged Voice and Data Networks (3)** An introduction to Cisco Systems converged voice and data networks as well as the challenges faced by its various technologies and implementing appropriate solutions to those challenges. Prerequisite: NET 3062 or concurrent or instructor consent.

**NET 3068 Network Security I (4: 3 lecture 1 lab)** Operating system security concepts and techniques. Examines theoretical concepts of security and adopts a practical hands-on approach when examining operating system security techniques. Prerequisite: NET 2058.

**NET 3088 Linux Operating Systems (4: 3 lecture, 1 lab)** Linux and Open Source Software, as an operating system technology. Installing, configuring, maintaining, and regularly use a distribution of the Linux operating system. Prerequisite: NET 2058.

**NET 4040 Fundamentals of Network Operating Systems (3)** Installing, configuring, and administering Network Operating Systems. Prerequisite: NET 2058 or instructor consent.

**NET 4042 Network Servers and Services (3)** Implementing and Administering of Network Infrastructure and Directory Services Infrastructure. Prerequisite: NET 4040 or instructor consent.

**NET 4043 Network Services and Infrastructure (3)** Advanced Implementing and Administering of Network Infrastructure and Directory Services Infrastructure. Prerequisite: NET 4042 or instructor consent.

**NET 4060 Advanced Routing\* (3)** Topics in VLSM, private addressing, and NAT to optimize address utilization. OSPF, IS-IS, EIGRP, BGP, optimizing routing, and scalability through route filtering and redistribution utilizing Cisco Systems hardware. Prerequisite: NET 2061 or CCNA certification or instructor consent. \*Not available for graduate credit.

**NET 4061 Remote Access\* (3)** Remote access topics in WAN technologies such as analog dialup, ISDN BRI and PRI, Frame Relay, and broadband utilizing Cisco Systems hardware. Prerequisite: NET 4060 or instructor consent. \*Not available for graduate credit.

**NET 4062 Advanced Switching\* (3)** Topics related to reliable, scalable, multilayer-switched LANs utilizing VLANs, VTP, STP, inter-VLAN routing, redundancy, QoS, campus LAN security, and transparent LAN services utilizing Cisco Systems hardware. Prerequisite: NET 4061 or instructor consent. \*Not available for graduate credit.

**NET 4063 Network Support (3)** Topics in Local and Wide Area Network documenting, baselining, and troubleshooting methodologies and tools are used to troubleshoot OSI Layers 1 to 7 utilizing Cisco Systems hardware. Prerequisite: NET 4062 or instructor consent.

**NET 4064 Advanced Network Design (3)** Cisco Systems design considerations for IPv6, popular routing protocols, the Security Ecosystem, and both Traditional and Integrated Voice architectures. Prerequisite: NET 3062 or NET 4100 or instructor consent.

**NET 4100 Network Device Configuration (3: 2 lecture, 1 lab)**  
A comprehensive overview of Cisco Systems device configuration. Prerequisites: Required for non-NET specialist. Not open to NET specialist.

**NET 4500 Managerial Design for Secure Networks (3)** Utilizing Cisco Systems Architecture for Voice, Video and Integrated Data networks to apply modular design practices to ensure the enterprise solution is highly available and optimized for the business and technical needs. Prerequisites: NET 4064 or NET 4100 or instructor consent.

**NET 4501 Network Security Management I (3)** Utilizing Cisco Systems routers for network and overall security processes focusing on designing and implementing solutions that will reduce the risk of revenue loss and vulnerability. Prerequisites: NET 4100 or instructor consent.

**NET 4502 Network Security Management II (3)** An emphasis on security policy design and management, security technologies, firewall and secure router design, installation, configuration and maintenance, AAA and VPN implementation using Cisco Systems' routers and firewalls. Prerequisites: NET 4501.

**ENGINEERING TECHNOLOGY**

Functional Major, Bachelor of Science Degree  
(43-856)

Sem. Hours

**FUNCTIONAL MAJOR REQUIREMENTS . . . . . 77-81**

**CORE**

MMGT 1500	Orientation to Engineering & Industrial Technologies . . . . .	1
MATH 1112	College Trigonometry . . . . .	2
MATH 1131	Applied Calculus . . . . .	3
GRAP 1110	Fundamentals of Drafting . . . . .	2
GRAP 2170	Intro to CAD . . . . .	2
SAFE 3000	Principles of Accident Causation & Prevention . . . . .	3
ET 3017	Industrial Electronics . . . . .	4
T&OE 3022	Internship in Technology . . . . .	3
T&OE 3060	Technical Writing . . . . .	3
MMGT 3520	Engineering Economy . . . . .	3
PR&T 4032	Hydraulics & Pneumatics . . . . .	3
INDM 4210	Industrial Management . . . . .	3
MMGT 4580	Quality Systems . . . . .	3
Required Hours		37

Each student must select one of the following options:

**Option 1 Electronics Engineering Technology - Required hours . . . . . 44**

ET 1026	DC Circuit Analysis . . . . .	4
ET 1027	AC Circuit Analysis . . . . .	4
ET 1050	Digital Prin. & Apps. . . . .	4
ET 2048	Active Elect. Devices . . . . .	4
ET 2060	Micro: Th. & Appl. . . . .	4
ET 2065	Computer Programming for Electronics Technology . . . . .	4
EET 2330	Transform Analysis . . . . .	3

Upper-level course work of departmentally approved electives in either Electronics or Computer Networking. . .17

**Option 2 Drafting/Design Engineering Technology - Required Hours . . . . . 44**

ET 1010	Applied Electricity . . . . .	3
GRAP 1120	Machine Drafting . . . . .	3
GRAP 2150	Geometry for Eng. Tech. . . . .	3
GRAP 3145	Sem. in Draft/Design Eng. Tech. . . . .	2
GRAP 4124	Geom. Dim. & Toler. Prin. for ET . . . . .	2
GRAP 4170	Computer-Aided Draft & Design ET . . . . .	3
GRAP 4175	Adv. 3D Analysis & Prototyping ET . . . . .	3
GRAP 4180	Industrial Design . . . . .	3
CMGT 2020	Mechanics of Materials . . . . .	3
CMGT 3020	Applied Strength of Materials . . . . .	3
MMGT 1510	Intro. to Mfg. Processes . . . . .	3
MMGT 2040	Engineering Materials Science . . . . .	4

Upper-level course work of departmentally approved electives . . . . . 9

**Option 3 Industrial Engineering Technology - Required Hours . . . . . 40**

ET 1010	Applied Electricity . . . . .	3
INDM 4220	Human Factors Engineering . . . . .	3
INDM 4240	Facilities Engineering . . . . .	3
INDM 4260	Organizational Dynamics . . . . .	3
MMGT 2040	Engineering Materials Science . . . . .	4
MMGT 2530	Machine Tool Technology . . . . .	3
MMGT 3510	Engineering Planning & Control . . . . .	3
MMGT 3530	Inspection & Quality Control . . . . .	3
MMGT 3562	Computer Numerical Control (CNC) . . . . .	3
MMGT 4520	Robotics & Automation . . . . .	3
MMGT 4550	Simulation in Engineering Tech. . . . .	3
MMGT 4590	Computer Integrated Manfactrng (CIM) . . . . .	3
FIN 2801	Business Statistics, 3 or	
SAFE 4940	Intro Quantitative Methods, 3 . . . . .	3

**GENERAL EDUCATION REQUIREMENTS (pages 34-43) . . . . . 49**

MATH 1111	Div. I C (required) . . . . .	4
PHYS 1104	Div. II A (required) . . . . .	4
CHEM 1104	Div. II A (required) . . . . .	4
ECON 1010	Div. II C (required) . . . . .	3
MMGT 1012	Div. II A (required) . . . . .	2
COMM 3010	Div. III (required) . . . . .	3
ICAP 4110	Div. IV B (required) . . . . .	3

**MINIMUM TOTAL . . . . . 126-130**

**FASHION: TEXTILES AND CLOTHING IN BUSINESS**

Functional Major, Bachelor of Science Degree  
(43-118)

The graduate with a Bachelor of Science degree with a functional major in Fashion: Textiles and Clothing in Business will use the knowledge and skills obtained in the program to:

- Demonstrate an understanding of fashion terminology as related to the apparel industry.
- Recognize the significance of practical reasoning to decision making
- Develop verbal and nonverbal communication skills.
- Demonstrate a positive relationship with employers, employees, and the public served.
- Demonstrate professional qualities which show value systems that enable actions that are socially ethical and responsible.
- Demonstrate the ability to apply job related techniques through the psychomotor domain.

Sem. Hours

**FUNCTIONAL MAJOR REQUIREMENTS . . . . . 72**

FAME 1400	Intro. to Fashion Merchandising . . . . .	3
FAME 1420	Applied Design in Fashion & Apparel Merchandising . . . . .	3
FAME 1450	Textile & Apparel Fabrications I . . . . .	3
FAME 2430	Image Management for Fashion . . . . .	3
FAME 2440	Fashion Merchandising Practicum . . . . .	3
FAME 2442	Textiles . . . . .	3
FAME 3425	Apparel Performance Evaluation . . . . .	3
FAME 3440	Fashion Promotion . . . . .	3
FAME 3444	Fashion Products . . . . .	3
FAME 4410	Architectural Interiors . . . . .	3
FAME 4430	Merchandising Applications . . . . .	3
FAME 4433	International Apparel Technology . . . . .	3
FAME 4434	Fashion History . . . . .	3
FAME 4442	Advanced Textiles . . . . .	3
FAME 4444	Fashion Merchandising . . . . .	3
FAME 4445	Senior Seminar in Fashion & Apparel Merchandising . . . . .	3
FAME 4490	Internship in Fashion & Apparel Merchandising . . . . .	3
ACCT 2101	Principles of Financial Acct. . . . .	3
MGT 3310	Principles of Management . . . . .	3
MKT 3400	Principles of Marketing . . . . .	3
MKT 3410	Retail Management . . . . .	3

MKT	3420	Principles of Advertising . . . . .	3
MKT	3430	Personal Selling . . . . .	3
MKT	3480	Consumer Behavior . . . . .	3

**MINOR NOT REQUIRED**

**GENERAL EDUCATION REQUIREMENTS (pages 34-43) . . . . . 48**

CHEM	1104	Div. II A (required) . . . . .	4
ECON	1010	Div. II B (required) . . . . .	3
AGRI	2130	Div. II D (required) . . . . .	3
IGEN	3116	Div. IV A (required). . . . .	3

**FREE ELECTIVES . . . . . 4**

**MINIMUM TOTAL . . . . . 124**

**CLOTHING**

**Minor for a Bachelor’s Degree**

UCM does not confer teacher certification for this minor (123)

Sem. Hours

**MINOR REQUIREMENTS . . . . . 21**

FAME	1420	Applied Design in Fashion & Apparel Merchandising . . . . .	3
FAME	2430	Image Management for Fashion . . . . .	3
FAME	2442	Textiles . . . . .	3
		Departmentally approved electives . . . . .	12

**Fashion and Apparel Merchandising**

**FAME 1400 Introduction to Fashion Merchandising (3)** Survey of the field of fashion merchandising. Emphasis on trends and developments of fashion marketing operations.

**FAME 1420 Applied Design in Fashion and Apparel Merchandising (3)** Application of the elements and principles of design to planning apparel and home or commercial interiors.

**FAME 1450 Textile and Apparel Fabrications I (3)** An introductory course with an emphasis on textiles and apparel goods as they relate to computerized equipment and software.

**FAME 2430 Image Management for Fashion (3)** Wardrobe planning from aesthetic, social, psychological, and economic viewpoints.

**FAME 2440 Fashion Merchandising Practicum (2-3)** Supervised fashion merchandising--training and experience in an approved retail establishment with emphasis on apparel selection, merchandise sales, and floor management. *May be repeated for a maximum of 12 semester hours.*

**FAME 2442 Textiles (3)** Characteristics of fibers, yarns, finishes and consideration of fabric construction, color application. Textile behavior, performance, maintenance and legislative developments pertaining to textiles. Prerequisite: sophomore standing.

**FAME 2450 Textile and Apparel Fabrications II (3)** Application of technological skills, problem solving techniques and creativity through the use of computerized equipment and software as it relates to apparel production and merchandising. Prerequisites: FAME 1420 and FAME 1450.

**FAME 3425 Apparel Performance Evaluation (3)** Principles and techniques of fitting and evaluating material, construction, finishes, and quality of ready-to-wear garments. Prerequisites: FAME 2442.

**FAME 3440 Fashion Promotion (3)** Researching, planning, and presenting fashion promotion activities appropriate for the apparel and textile industries, including fashion show production.

**FAME 3444 Fashion Products (3)** Production and merchandising of fashion products, their relationship to industrial trends and the economy. Prerequisites: 3 semester hours of clothing construction, FAME 2442 and ECON 1010.

**FAME 4410 Architectural Interiors (3)** The application of architectural designs, materials, and furnishings in the interior environment. A concentration of textile products for residential and nonresidential settings that reflect today’s lifestyle. Prerequisites: FAME 1420 or equivalent and FAME 2442.

**FAME 4414 Advanced Technical Problems in Fashion**

(1-3) Individual or group work on advanced technical problems in Fashion/Apparel Merchandising. Provide exploration of content not available through normal course offerings. *May be repeated for a maximum of 6 semester hours.* Prerequisites: minimum 2.5 Cumulative GPA, written contract/proposal with objectives/learning competency and written department consent.

**FAME 4424 Pattern Design (3)** The design and construction of garments from a basic pattern, using the principles of art as applied to dress design. Prerequisites: FAME 2430 and 3 semester hours of clothing construction

**FAME 4430 Merchandising Applications (3)** Builds upon the necessary understanding, knowledge, and working applications of the basics for profitable fashion merchandising. Prerequisite: ACCT 2101. Corequisite: FAME 4444.

**FAME 4433 International Apparel Technology (3)** An analysis of economic, political, and cultural systems affecting the importing and exporting of textiles and apparel. Technology affecting the global fashion marketplace will be emphasized.

**FAME 4434 Fashion History (3)** Analysis of the evolution of fashion in Western civilization. Prerequisite: FAME 2430.

**FAME 4442 Advanced Textiles (3)** Comparative study of factors influencing the properties of fibers and fabrics as well as the performance of textile and apparel products. Lab period is used to test textile performance with standardized test procedures. Prerequisites: CHEM 1104 or equivalent and FAME 2442.

**FAME 4444 Fashion Merchandising (3)** Principles and practices of fashion manufacturing and merchandising. Prerequisites: FAME 3444, MKT 3410. Corequisite: FAME 4430.

**FAME 4445 Senior Seminar in Fashion and Apparel Merchandising (3)** Philosophy, current issues and trends in fashion and apparel merchandising will be covered. Focus on problem-solving styles leading to group and individual research problems. Prerequisites: senior standing.

**FAME 4450 Special Problems in Textiles and Clothing (2-3)** Recent trends. Group and individual problems which will include reports, discussions, bibliographies, research, and experiments. *May be repeated for a maximum of 6 semester hours.* Prerequisite: FAME 2442.

**FAME 4490 Internship in Fashion and Apparel Merchandising (2-3)** Provides experience for students in cooperating businesses. *May be repeated for a maximum of 12 semester hours with no more than 6 semester hours graduate credit.*

**GRAPHIC ARTS TECHNOLOGY MANAGEMENT**

**Functional Major, Bachelor of Science Degree**

(43-146)

The graduate with a Bachelor of Science Degree with a Functional Major in Graphic Arts Technology Management will use the knowledge and skills in the program to:

- Utilize terminology appropriate to graphic arts
- Analyze graphic production systems and solve problems associated with these systems
- Demonstrate knowledge of current trends and innovations in graphic arts
- Discuss the role of team dynamics in the work environment
- Explain the industry structure and career opportunities in graphic arts
- Demonstrate effective written and oral communication skills
- Appreciate the societal significance of graphic arts
- Exhibit professional ethics, environmental responsibility and safety
- Perform basic production processes which illustrate conceptual understanding of the printing production cycle.

Sem. Hours

**FUNCTIONAL MAJOR REQUIREMENTS . . . . . 70**

GRAP	1000	Orientation to Graphic Arts . . . . .	1
GRAP	1010	Fundamentals of Printing Processes . . . . .	3
GRAP	2030	Digital Pre-Press for Printing Applications . . . . .	3
GRAP	2031	Digital Image Processing . . . . .	3
GRAP	2032	Imaging Technology . . . . .	3
GRAP	2035	Digital Imposition & Workflow. . . . .	3

GRAP 3024	Flexographic Technology	3
GRAP 3034	Offset Press Technology	3
GRAP 3043	Binding, Finishing & Distribution	3
GRAP 3045	Substrates & Inks	4
GRAP 3051	Graphic Arts Management	3
GRAP 3057	Graphic Arts Quality Assurance	3
GRAP 4038	Color Science	4
GRAP 4053	Graphic Arts Production Analysis	3
GRAP 4055	Printing Estimating & Costing	3
GRAP 4095	Senior Seminar in Graphic Arts	1
ACCT 2100	Survey of Accounting	3
MGT 3325	Business Communications	3
GRAP 3016	Graphic Arts Practicum, 3 or	
T&OE 3022	Internship in Technology, 3	3
INDM 4210	Industrial Management, 3 or	
MGT 3310	Principles of Management, 3	3
Departmentally Approved Electives (and/or with Advisor consent) from one of the following areas		
Area 1 Customer Service and Sales		
Area 2 Graphic Design		
Area 3 Multimedia/Imaging		
Area 4 Production Management & Supervision		
Area 5 Technical Application		
<b>MINOR NOT REQUIRED</b>		
<b>GENERAL EDUCATION REQUIREMENTS (pages 34-43)</b>		<b>48</b>
CHEM 1104	Div. II A (required) or	
PHYS 1104	Div. II A (required)	4
IGEN 3116	Div. IV A (required)	3
<b>FREE ELECTIVES</b>		<b>6</b>
<b>MINIMUM TOTAL</b>		<b>124</b>

## GRAPHICS

### Minor for a Bachelor's Degree

UCM does not confer teacher certification for this minor (147)

	Sem. Hours	
<b>MINOR REQUIREMENTS</b>	<b>20</b>	
Electives from the following	6-7	
GRAP 1010	Fundamentals of Printing Processes	3
GRAP 1110	Fundamentals of Drafting	2
PHOT 1210	Foundations of Professional Phot.	3
PHOT 1211	Foundations of Technique & Critique	1
Departmentally approved electives in graphics	13-14	

### Graphic Arts

**GRAP 1000 Orientation to Graphic Arts (1)** Orientation to the philosophy, development, and current trends in the professional preparation for careers in graphic arts.

**GRAP 1010 Fundamental of Printing Processes (3)** Digital pre-press, printing production and post-press processes, materials and equipment. Laboratory experiences support lecture/theory content.

**GRAP 1500 Technical Problems in Graphics (1-3)** Individual or group work on introductory level technical problems in graphics. Provide exploration of content not available through normal course offerings. *May be repeated for a maximum of 6 hours.* Prerequisite: written contract/proposal with objectives and departmental consent.

**GRAP 2030 Digital Pre-Press for Printing Applications (3)** Electronic page layout methods and image generation using current applications. Prerequisite: GRAP 1010.

**GRAP 2031 Digital Image Processing (3)** The study of systems/applications used to manipulate and modify images for printing. Practical experience in image composition and manipulation, including typographical and special effects.

**GRAP 2032 Imaging Technology (3)** Investigation of photographic and electronic technology used to produce line, halftone and color separated images for printing processes. Laboratory experiences support lecture/theory content. Prerequisite: GRAP 1010.

**GRAP 2035 Digital Imposition & Workflow (3)** Manual and electronic imposition methods, prepress proofing, conventional lithographic platemaking, computer to plate techniques, and direct digital printing. Laboratory experiences support lecture/theory content. Prerequisite: GRAP 1010.

**GRAP 2610 Principles of Multimedia (3)** Selection, organization, and production of materials for multimedia. Introductory experiences creating web pages and interactive presentations for business, industry, and education.

**GRAP 2620 Multimedia Applications I (3)** Multimedia experiences including implementation of visual and sound applied to the www and other technologies. These applications include still and motion imaging and animation. Hands-on experiences supplement lecture. Prerequisite: GRAP 2610.

**GRAP 2670 Multimedia Animation (3)** Fundamentals of animation theories and practices specializing in digital applications. Planning and storyboarding for types of animation. Hands-on experiences will supplement lecture. Prerequisite: GRAP 2610.

**GRAP 3016 Graphic Arts Practicum (3)** Supervised work on selected aspects of producing the printed product and/or managing a printing plant. *May be repeated for a maximum of 6 semester hours.* Prerequisite: 2.00 grade-point average overall; application approved by the Chair of the Department of Graphic Imaging and Design Technology.

**GRAP 3024 Flexographic Technology (3)** Flexographic printing technology from prepress through postpress operations for both wide and narrow web applications. Instruction on rotary letterpress will also be included. Laboratory experiences support lecture/theory content. Prerequisite: GRAP 1010.

**GRAP 3034 Offset Press Technology (3)** Lithographic sheet fed and web press operation and maintenance with emphasis on sources of image problems. Solutions for interrelated substrate, ink, and plate problems. In-line finishing and image carrier technology as they relate to quality image transfer. Laboratory experiences support lecture/theory content. Prerequisite: GRAP 1010.

**GRAP 3036 Advanced Offset Lithography (3)** Offset Lithography from image preparation through finishing with concentration on multi-color and process printing, perfecting and automated press controls. Prerequisites: GRAP 2030, GRAP 2031, GRAP 2032, GRAP 2035 and GRAP 3034.

**GRAP 3040 Screen Printing (3)** Computer image preparation, screen tensioning, mesh selection, photo stencils, squeegees, markets, principles and applications for industrial screen printing. Laboratory experiences support lecture/theory content. Prerequisite: GRAP 1010.

**GRAP 3043 Binding, Finishing and Distribution (3)** Equipment, operations, and principles relative to trimming, binding, folding, shipping/mailling and specialized finishing operations, including scoring, perforating, die-cutting, embossing and foil stamping. Prerequisite: GRAP 1010.

**GRAP 3045 Substrates and Inks (4)** Properties, specification, pricing and procurement of ink and printing substrates (especially paper) relative to commercial printing with emphasis on offset lithography. Prerequisite: GRAP 1010.

**GRAP 3051 Graphic Arts Management (3)** Principles and practical application of management functions as related to the production of printed materials. Instruction includes classroom simulation of management roles. Prerequisites: GRAP 2035 and junior level status.

**GRAP 3057 Graphic Arts Quality Assurance (3)** Statistical quality control for graphic arts production; includes data analysis, product acceptance, process control, and problem solving techniques used in the management of quality. Prerequisites: GRAP 2032 or GRAP 3034 or GRAP 3045.

**GRAP 4014 Advanced Technical Problems in Graphic Arts (1-3)** Individual/group work on recent developments and advanced technical concepts. Experimentation and technical exploration of content not available through formal course offerings in the department. By arrangement for qualified students. *May be repeated for a maximum of 6 semester hours.* Prerequisite: written contract/proposal with objectives and written department consent.

**GRAP 4038 Color Science (4)** Technical aspects of process color reproduction; includes color theory, ink evaluation, densitometry, tone reproduction, printing characteristics, color correction, gray balance, color separation, and proofing. Laboratory experiences support lecture/theory content. Prerequisite: GRAP 2032.

**GRAP 4045 Advanced Digital Imaging Processing (3)** Advanced image manipulation techniques as related to color and correction with special techniques for the printing and imaging industry. Prerequisite: GRAP 2031 and GRAP 2032.

**GRAP 4051 Print Production (3)** Applied experiences in management and technological applications in the production of printed material including prepress, press, and post press operations. Prerequisites: GRAP 2032, GRAP 2035, and GRAP 3051.

**GRAP 4053 Graphic Arts Production Analysis (3)** A variety of printing requests are analyzed to determine printing specifications, production sequence, cost factors, material ordering, and technical problems that may arise during the actual printing. Course emphasis utilizes this analysis into a planning sequence of communications, scheduling, routing, dispatching, and work and material flow required for printing production. Prerequisites: GRAP 2035, GRAP 3034 and GRAP 3045.

**GRAP 4055 Printing Estimating and Costing (3)** Identification of costs relative to materials, operations, and labor utilized in the production of printed matter. Budgeting, forecasting, cost accounting, and budgeted hourly rates. Prerequisites: GRAP 3051 and GRAP 4053.

**GRAP 4095 Senior Seminar in Graphic Arts (1)** Professional preparation integrating team building skills, problem solving, and analysis of current trends specific to graphic arts. Prerequisite: 90 semester hours.

**GRAP 4500 Special Projects in Graphics (1-3)** Investigation of contemporary problems and issues in graphics by selected individuals or groups. May be repeated for a maximum of 6 semester hours. Prerequisites: written contract/proposal with objectives and written department consent.

**INDUSTRIAL TECHNOLOGY**

Major, Bachelor of Science Degree  
(43-210)

Sem. Hours

**MAJOR REQUIREMENTS . . . . . 47**

ET 1010	Applied Electricity, 3 or	
ET 1020	General Electronics, 3	3
ET 1050	Digital Principles & Applications	4
GRAP 1110	Fundamentals of Drafting	2
GRAP 2170	Intro. to Computer-Aided Drafting	2
MMGT 2040	Engineering Materials Science	4
MMGT 2530	Machine Tool Technology	3
MMGT 3550	Principles of Numerical Control	3
PR&T 1010	Power Mechanics	3
PR&T 4032	Hydraulics & Pneumatics	3
INDM 4210	Industrial Management	3
SAFE 3000	Prin. of Acc. Caus. & Prev.	3
ACCT 2100	Survey of Accounting	3
Upper-level electives in ET, GRAP, CMGT, MMGT, INDT, INDM, or PR&T		
		9

**MINOR REQUIREMENTS . . . . . 20-25**

**GENERAL EDUCATION REQUIREMENTS (pages 34-43) . . . . . 48**

PHYS 1104	Div. II A Part 1 (required)	4
ECON 1010	Div. II B (required)	3
GEOG 3201	Div. II D (required)	3
COMM 3010	Div. III (required)	3
ICAP 4110	Div. IV (required), 3 or	
IGEN 3116	Div. IV (required), 3	3

**FREE ELECTIVES . . . . . 9**

**MINIMUM TOTAL . . . . . 124**

**INDUSTRIAL TECHNOLOGY**

**Functional Major, Bachelor of Science Degree**

This "2+2" program is designed to build upon an Associate Degree. (43-211)

The graduate with a Bachelor of Science Degree in Industrial Technology 2+2 functional major transfer program will use the knowledge and skills obtained in the program to:

- Apply mathematical, statistical and scientific principles to industrial situations to maintain and enhance the work within industry
- Use the computer proficiently as an essential tool in planning, monitoring, and controlling of work within industry
- Understand management concepts of cost estimating, quality improvement, scheduling, production planning and control, industrial supervision, work design and ergonomics and plant layout and materials handling
- Communicate effectively in both individual and team situations using both oral and written communications
- Utilize critical thinking skills to solve industrial problems in both individual and team situations.

Sem. Hours

**FUNCTIONAL MAJOR REQUIREMENTS . . . . . 76**

Associate Degree Technology Courses . . . . . 38  
A technology related Associate in Applied Science or Associate in Science Degree from an accredited community college or technical institute in a field of study related to the School of Technology will be accepted. Thirty-nine semester hours of the degree transferred should apply towards the major and the remainder towards General Education The General Education requirements transferred must be equivalent to UCM's requirements. NOTE: All core courses are offered online.

Core		21
INDM 4010	Current Issues in Industry	3
INDM 4015	Legal Aspects of Industry	3
INDM 4210	Industrial Management	3
INDM 4260	Organizational Dynamics	3
MMGT 4580	Quality Systems	3
SAFE 3000	Prin. of Acc. Caus. & Prev., 3 or	
SAFE 3120	Industrial Hygiene, 3	3
T&OE 3060	Technical Writing	3

**Electives from one or more of the following areas . . . . . 17**

Area 1: Management		
INDT 3050	Technical Career Subjects, 1-3 or	
T&OE 3022	I Legal Aspects of Industry, 1-3	1-3
INDM 4220	Human Factors Engineering	3
INDM 4240	Facilities Engineering	3
Area 2: Construction		
CMGT 3320	Prin. of Construction Mgt.	3
CMGT 3330	Building Codes & Code Admin.	3
CMGT 3355	Const. Plan & Sched.	3
CMGT 4325	Computer Est. & Cost Analysis	3
CMGT 4355	Comp.-Based Proj. Control.	3
CMGT 4330	Mechanical Systems for Buildings	3
Area 3: Electronics		
NET 3062	Network Design	3
NET 4060	Advanced Routing	3
NET 4062	Advanced Switching	3
NET 4064	Advanced Network Design	3
NET 4100	Network Device Configuration	3
Area 4: Manufacturing		
MMGT 3510	Eng. Planning & Control.	3
MMGT 3520	Engineering Economy	3
MMGT 3530	Inspection & Quality Control	3
MMGT 3550	Principles of Numerical Control	3
MMGT 3562	Computer Numerical Control (CNC).	3
MMGT 4520	Robotics & Automation	3
Area 5: General Technology		

The student, working with a faculty adviser, will select a minimum of 17 sem. hours of upper level coursework from program areas in the School of Technology

**MINOR NOT REQUIRED**



GENERAL EDUCATION REQUIREMENTS (pages 34-43) . . . . . 48

Associate in Applied Science or Associate in Science Degree  
 General Education courses transferred (if equivalent) . 15-18  
 General Education Courses remaining (based on 15-18  
 General Education equivalent courses transferred in) 30-33

MATH 1111	Div. I C (required)	3
PHYS 1104	Div. II A (required)	4
BTE 1210	Div. II A (required)	2
ECON 1010	Div. II B (required)	3
ICAP 4109	Div. IV or	
ICAP 4110	Div. IV or	
IGEN 3116	Div. IV	3

MINIMUM TOTAL . . . . . 124

**Industrial Technology**

**INDT 1040 Technical Mathematics I (3)** Application of the principles of algebra, geometry, and the fundamental concepts of trigonometry to technical work. Designed for associate degree technical programs. Prerequisite: AE 1030 or one unit of high school algebra.

**INDT 1042 Technical Mathematics II (3)** Application of the principles of numerical and analytical trigonometry, complex numbers, vector algebra and oblique triangle, logarithms, basic analytic geometry and probability theory. Prerequisite: MATH 1111 or concurrently; or INDT 1040

**INDT 2040 Calculus for Technology (3)** Application of the fundamental concepts of differential and integral calculus to technology. Prerequisites: MATH 1111; and INDT 1042 or MATH 1112..

**INDT 3050 Technical Career Subjects (1-3)** In-depth competency, skill development, and advanced concepts taught in formal course offerings through explorations of innovative techniques and procedures used in business and industry. *May be repeated for a maximum of 12 semester hours.* Prerequisite: consent of a review committee of three faculty members in the department.

**INDT 4000 Special Projects in Industrial Technology (1-3)** Investigation of contemporary problems and issues in manufacturing and construction by selected individuals or groups. *May be repeated for a maximum of 6 semester hours.*

**INDT 4020 Industrial Energy Management (3)** Energy efficient techniques in a variety of industrial settings.

**INDT 4050 Equipment Installation and Maintenance (2)** Technical problems in the installation of power equipment; care and maintenance of tools and machines; servicing school equipment; safety.

**INDUSTRIAL TECHNOLOGY-MANUFACTURING MANAGEMENT**

Functional Major, Bachelor of Science Degree  
 (43-240)

The graduate with a Bachelor of Science degree with a functional major in Industrial Technology-Manufacturing Management will use the knowledge and skills obtained in the program to:

- Apply mathematical, statistical and scientific principles to manufacturing situations to maintain and enhance production and product quality.
- Understand the properties, characteristics, and appropriate use of manufacturing materials, standards, specifications and manufacturing processes.
- Use the computer proficiently as an essential tool: to plan, monitor and control production; to collect and analyze data; and to prepare, present and communicate professional reports.
- Understand business, costs, economic justification, manufacturing economy, decision-making, quality improvement, production planning, production control techniques and manufacturing information systems.
- Use appropriate communication skills to interpret, convey, and articulate reports, problems and proposed solutions in the group or team environment.
- Use critical thinking, observation, questioning, analyzing techniques to solve manufacturing related problems systematically in both an independent and a team environment.
- Utilize effective leadership and supervisory skills with a concern for diversity, the global environment and professional ethics.

Sem. Hours

**FUNCTIONAL MAJOR REQUIREMENTS . . . . . 76**

CMGT 2020	Mechanics of Materials	3
ET 1010	Applied Electricity	3
ET 3017	Industrial Electronics	4
MMGT 2040	Engineering Material Science	4
MMGT 1500	Orientation to Engineering & Industrial Technologies	1
MMGT 1501	Seminar in Manufacturing	2
MMGT 1510	Intro. to Manufacturing Processes	3
MMGT 2515	Applied Manufacturing Processes	3
MMGT 2530	Machine Tool Technology	3
MMGT 3510	Eng. Planning & Control	3
MMGT 3520	Engineering Economy	3
MMGT 3530	Inspection & Quality Control	3
MMGT 3562	Computer Numerical Control (CNC)	3
MMGT 4520	Robotics & Automation	3
MMGT 4580	Quality Systems	3
MMGT 4590	Computer Integrated Manufacturing (CIM)	3
INDM 4220	Human Factors Engineering	3
INDM 4240	Facilities Engineering	3
INDM 4260	Organizational Dynamics	3
GRAP 1110	Fundamentals of Drafting	2
GRAP 1120	Machine Drafting	3
GRAP 2170	Intro. to Computer-Aided Drafting	2
GRAP 4124	GD&T Principles for Eng. Tech.	2
PR&T 4032	Hydraulics & Pneumatics	3
SAFE 3120	Industrial Hygiene, 3 or	
SAFE 3430	Industrial Hazard Control, 3	3
T&OE 3022	Internship in Technology	1
MATH 1112	College Trigonometry	2

**MINOR NOT REQUIRED**

**GENERAL EDUCATION REQUIREMENTS (pages 34-43) . . . . . 48**

MATH 1111	Div. I C (required)	3
PHYS 1104	Div. II A (required)	4
CHEM 1103	Div. II A (required)	3
BTE 1210	Div. II A (required)	2
ECON 1010	Div. II B (required)	3
ICAP 4110	Div. IV B (required)	3

**MINIMUM TOTAL . . . . . 124**

**MANUFACTURING**

**Minor for a Bachelor's Degree**

UCM does not confer teacher certification for this minor (153)

	Sem. Hours
<b>MINOR REQUIREMENTS</b> . . . . .	<b>22</b>
MMGT 2040 Engineering Material Science . . . . .	4
MMGT 2530 Machine Tool Technology . . . . .	3
MMGT 3550 Principles of Numerical Control . . . . .	3
Electives from the following . . . . .	12
MMGT 1510 Intro. to Manufac. Processes . . . . .	3
MMGT 2515 Applied Manufac. Processes . . . . .	3
MMGT 3562 Computer Numerical Control (CNC) . . . . .	3
MMGT 4520 Robotics & Automation . . . . .	3
MMGT 3530 Inspection & Quality Control . . . . .	3
GRAP 1110 Fundamentals of Drafting . . . . .	2
GRAP 2170 Intro. to Computer-Aided Drafting . . . . .	2

**Manufacturing Management**

**MMGT 1010 Materials for Manufacturing and Construction (3)** Construction materials, including sources, characteristics, uses, and standard sizes and packaging, with relative values of different grades.

**MMGT 1012 Global Production Technology (2)** Study of production technology along with the problems, successes and challenges of the application of technology globally.

**MMGT 2040 Engineering Material Science (4: 3 lecture, 1 lab)** Study of materials and their testing for construction, engineering and manufacturing: sources, characteristics, applications, standard sizes, packaging, testing theory, inspection and testing per ASTM standards.

**MMGT 1120 Welding (2)** Study and practice of four basic welding processes: oxyacetylene, metallic arc, MIG and TIG.

**MMGT 2210 Finishing and Upholstering (3)** Finishing materials, their application and treatment on various woods and metals; refinishing and upholstery.

**MMGT 1500 Orientation to Engineering and Industrial Technologies (1)** An introduction to Engineering Technology and Industrial Technology as an academic endeavor including the consideration of their sub disciplines, requirements of students, and professional opportunities.

**MMGT 1501 Seminar in Manufacturing (0.5)** Forum to provide students an opportunity to learn about current events in the manufacturing industry through the use of guest speakers, open discussions, and informative field trips. Students should expect to share cost of field trips and professional materials. *May be repeated for a maximum of 2 semester hours.*

**MMGT 1510 Introduction to Manufacturing Processes (3)** An overview of the primary processes and a basic knowledge of secondary manufacturing processes which are classified as separating, casting, forming, conditioning, assembling, and finishing.

**MMGT 2500 Applied Computer Technology (2)** Develops computer literacy through a study of microcomputers, peripherals and applications, and software.

**MMGT 2515 Applied Manufacturing Processes (3)** The manufacturing processes used to fabricate and form engineering materials into useful products. Includes laboratory experiences using the common materials and basic processes. Prerequisite: MMGT 1510.

**MMGT 2530 Machine Tool Technology (3)** An introduction to machine tools with experiences in turning, drilling, milling, grinding, and related bench work. Assigned projects.

**MMGT 3130 Composite Technology I (3)** Fundamental principles of materials, basic design theory, manufacturing processes, inspection and repair concepts.

**MMGT 3210 Manufacturing in the Aerospace Industry (3)** Manufacturing activities required in order to plan, organize, schedule, control and direct manufacturing activities in the environment of an aerospace industry.

**MMGT 3501 Computer Programming for Manufacturing (3)** Students will study control logic, data acquisition, data storage and computer programming as they relate to manufacturing. Prerequisite: BTE 1210 or equivalent.

**MMGT 3510 Engineering Planning and Control (3)** Planning and controlling the manufacturing process including materials, machines, people, and suppliers.

**MMGT 3520 Engineering Economy (3)** Elements that influence the cost of manufactured products, the process of determining manufacturing costs, cost justification, value analysis and cost reduction analysis. Prerequisites: MMGT 2515 and MMGT 2530 or junior class standing.

**MMGT 3530 Inspection and Quality Control (3)** Principles and methods of controlling the quality of manufactured products. Emphasis will be on gauging and inspection.

**MMGT 3550 Principles of Numerical Control (3)** Introduction to N/C Machining Operations. Includes laboratory work in writing and executing manual program on N/C Machine Tools.

**MMGT 3562 Computer Numerical Control (CNC) (3: 2 lecture, 1 lab)** Concepts presented and analyzed include CNC machine set-up, tooling selection, part set-up, inspection methods, programming, industrial machining centers, flexible manufacturing systems and rapid prototyping systems.

**MMGT 4060 Aerospace Manufacturing Safety (3)** Safety, health and environmental issues in aerospace manufacturing with an emphasis on the management of safety programs in manufacturing industries.

**MMGT 4221 Manufacturing Problem Solving (3)** A micro-level look at issues that directly affect processes, procedures, and management within the manufacturing industry.

**MMGT 4520 Robotics and Automation (3)** Automated manufacturing equipment, computer integrated manufacturing systems, and the use of industrial robots. Computer programming background recommended.

**MMgt 4550 Simulation in Engineering Technology (3)** Collection of methods and applications to simulate the behavior of manufacturing and service systems. Emphasis on hands-on time with Software utilizing case studies, and lab exercises. Prerequisite: Senior standing or Graduate status.

**MMGT 4580 Quality Systems (3)** The principles and practices of Total Quality Managements and the decision making tools and techniques utilized by professionals in today's successful industries.

**MMGT 4590 Computer Integrated Manufacturing (CIM) (3: 2 lecture, 1 lab)** Emphasis on product planning and engineering, production planning, control, and execution. Includes integration of computer numerical control (CNC) machines, robotics, material handling, and quality control. Prerequisite: MMGT 4520 or consent of instructor.

**Integrative Studies Capstone**

**ICAP 4110 Industrial Problem Solving\* (3)** Designed for students preparing for careers in manufacturing management. Student teams will analyze manufacturing problems, propose solutions, and present recommendations. Prerequisite: senior standing. \*Not available for graduate credit.

**Industrial Management**

**INDM 4010 Current Issues in Industry (3)** Identify, discuss, and research current issues, trends, and technological changes affecting industry as related to corporate planning, decision making, and managing for the future. Prerequisites: junior or senior standing for undergraduate credit.

**INDM 4015 Legal Aspects of Industry (3)** Coverage of legal aspects of industry. Focus on the legal system, sources of law, and types of law affecting the manufacturing and/or construction industry.

**INDM 4210 Industrial Management (3)** A survey of operations management in industry today. Industrial management principles and applications, management science, operations analysis and design, manufacturing processes, process life cycle, production inventory, and quality control are emphasized.

**INDM 4220 Human Factors Engineering (3)** Integration of concepts involved in providing safe and comfortable work places (Ergonomics) with concepts directed toward increased productivity and profitability (Work Design).

**INDM 4230 Quality Control Management (3)** Overall approach to quality and the control activities of management. Technical aspects of management control systems, statistical analysis, statistical quality control, and management concepts are emphasized. Prerequisite: background statistics course.

**INDM 4240 Facilities Engineering (3)** Provides students and practitioners with the practical resources that describe the techniques and procedures for developing an efficient facility layout and an introduction to computer simulations.

**INDM 4260 Organizational Dynamics (3)** Various types and styles of supervisory leadership in the industrial setting. Emphasis is placed on human relations aspects of leadership in the line and staff organizational structure.

**INDM 4280 Industrial Statistics (3)** Statistical methods designed for industrial and applied research. Some of the quantitative methods used for solving industrial problems, including measurement system analysis, statistical process control, probability distribution, testing hypotheses, multiple regression analysis, design of experiment, and nonparametric statistics commonly used in industry. Prerequisite: MATH 1111 or consent of instructor.

**PHOTOGRAPHY**

Major, Bachelor of Science Degree  
(43-228)

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

- Produce a portfolio appropriate to career goals.
- Prepare for employment in photographic occupations.
- Possess the flexibility to accommodate technological change.
- Interpret the attributes of a photograph.
- Demonstrate a functional understanding of selected photographic materials and processes.
- Enjoy life more as a result of having developed skills in photography.
- Recognize and acquire professional and visual ethics pertaining to photography.
- Possess a sense of personal creativity.
- Possess confidence in the skills and technology of professional imagery.
- Establish the attitude and skills for self-motivated learning.

Sem. Hours

**MAJOR REQUIREMENTS . . . . . 47**

PHOT 1210	Foundations of Professional Photography .	3
PHOT 1211	Foundations of Technique & Critique . . . .	1
PHOT 1216	Photographer's Forum 1 . . . . .	1
PHOT 2216	Photographer's Forum 2 . . . . .	1
PHOT 3216	Photographer's Forum 3 . . . . .	1
PHOT 4216	Photographer's Forum 4 . . . . .	1
Minimum of one (1) semester hour of Forum per academic year.		
PHOT 2200	Editorial Photography . . . . .	3
PHOT 2210	Intro. Studio Techniques . . . . .	3
PHOT 2220	Photographic Materials & Proc. . . . .	3
PHOT 2270	Conventional B&W Photography . . . . .	3
PHOT 3230	Digital Imaging . . . . .	3
PHOT 3250	Portrait Photography . . . . .	3
PHOT 4200	Color Imaging . . . . .	3
PHOT 4252	Portfolio Photography . . . . .	3
Electives from one of the following areas . . . . . 15		
Area 1 Commercial		
Area 2 Media		
Area 3 Portrait		
Area 4 Technical		

**MINOR REQUIREMENTS . . . . . 18-25**

**GENERAL EDUCATION REQUIREMENTS (pages 34-43) . . . . . 48**

IGEN 3116 Div. IV A (required) . . . . . 3

**FREE ELECTIVES . . . . . 5-12**

**MINIMUM TOTAL . . . . . 124**

**PHOTOGRAPHY**

Minor for a Bachelor's Degree

UCM does not confer teacher certification for this minor (148)

Sem. Hours

**MINOR REQUIREMENTS . . . . . 20-21**

PHOT 1210	Foundations of Professional Photography .	3
PHOT 1211	Foundations of Technique & Critique . . . .	1
PHOT 2210	Intro. Studio Techniques . . . . .	3
PHOT 3250	Portrait Photography . . . . .	3
Electives in photography . . . . .		10-11

**Photography**

**PHOT 1203 Introduction to Photography (3)** Course encompasses exposing, and printing photographs including darkroom experiences. Color and digital imaging are introduced. Not for Photo majors or minors.

**PHOT 1210 Foundations of Professional Photography (3)** Primarily intended for photography majors and minors encompassing composition, exposure, processing and printing of digital images. Must furnish an approved digital SLR camera. Corequisite: PHOT 1211

**PHOT 1211 Foundations of Technique and Critique (1)** Explanations, demonstrations, and critique of Foundations of Professional Photography assignments. Corequisite: PHOT 1210.

**PHOT 1216 Photographer's Forum 1 (1)** Seminar for student portfolio presentation and for study of current events in photography through open discussions, activities, and outside speakers.

**PHOT 2200 Editorial Photography (3)** Photographic techniques for producing story telling images in a variety of media environments including news, documentary, sports, and event photography. Prerequisite: PHOT 1210.

**PHOT 2210 Introduction to Studio Techniques (3)** Theory and laboratory experiences involving problems associated with a variety of photographic situations applicable to commercial photography. Prerequisite: PHOT 1210.

**PHOT 2216 Photographer's Forum 2 (1)** Seminar for student portfolio presentation and for study of current events in photography through open discussions, activities, and outside speakers.

**PHOT 2220 Photographic Materials and Processes (3)** Properties of photographic materials, processes and systems will be studied. Laboratory experiences include process control, masking, copying, duplicating, and processing positive and negative photographic materials. Prerequisite: PHOT 1210.

**PHOT 2270 Conventional Black and White Photography (3)** Techniques for controlling tonal values in the black and white photographic process. Emphasis is on production and enhancement of photographic control through the acquisition and refinement of personal technique. Prerequisite: PHOT 1210.

**PHOT 2280 Creative Photography (3)** Analysis of a variety of processes and influences upon which the student can draw to develop their photographic sensibilities of creative self-expression. Prerequisite: PHOT 1210.

**PHOT 3210 Investigative Photography (3)** Exploratory experiences in the accepted photographic techniques for civil and criminal photographic documentation. Prerequisite: PHOT 1210.

**PHOT 3215 Origins of Photography (3)** A survey of the people, styles, inventions, and processes in photography from early developments to present day.

**PHOT 3216 Photographer's Forum 3 (1)** Seminar for student portfolio presentation and for study of current events in photography through open discussions, activities, and outside speakers.

**PHOT 3230 Digital Imaging (3)** Applications-oriented introduction to electronic imaging. Provides knowledge and develops skill in image digitizing, output options, image enhancement and manipulation. Prerequisite: PHOT 1210.

**PHOT 3240 Nature and Scenic Photography (3)** Photographic techniques used to illustrate the natural features of plants, animals, and the landscape. The student must furnish a focusing 35mm or larger format camera with adjustable f-stops and shutter speeds and a macro lens, diopters, or other close-up equipment. Prerequisite: PHOT 1210.

**PHOT 3250 Portrait Photography (3)** Experiences in portrait photography with an emphasis on professional techniques, and the operation of specialized equipment utilized in the field.

Prerequisite: PHOT 1210.

**PHOT 3260 Digital Portfolio (3)** Develop knowledge and skills in planning, researching, formatting, sequencing and producing a multi-image digital portfolio. Prerequisite: PHOT 3230.

**PHOT 3280 Advanced Studio Techniques (3)** Provide an advanced experience in directed studio photographic communication.

Prerequisite: PHOT 2210.

**PHOT 3290 Architectural Photography (3)** Architectural photography is the imaging of the man-made structures to convey the experience of being in and around a built environment. Prerequisite: PHOT 2210.

**PHOT 4200 Color Imaging (3)** In-depth experience in exposing, manipulating and printing color images. Prerequisites: PHOT 2210, PHOT 2200, PHOT 3230.

**PHOT 4210 Wedding & Location Photography (3)** Provide advanced instruction and practice in non studio portrait photography using professional light control techniques. Prerequisite: PHOT 3250.

**PHOT 4214 Advanced Technical Problems in Photography (1-3)** individual or group work on advanced technical problems in photography. Provide exploration of content not available through normal course offerings. *May be repeated for a maximum of 6 semester hours.* Prerequisites: minimum 2.5 GPA, written contract/proposal with objectives and written department consent.

**PHOT 4216 Photographer's Forum 4\* (1)** Seminar for student portfolio presentation and for study of current events in photography through open discussions, activities, and outside speakers. \*Not available for graduate credit.

**PHOT 4220 Advanced Digital Imaging (3)** An advanced study of digital image editing systems used to manipulate, modify and composite images for photographic illustration. Prerequisite: PHOT 3230.

**PHOT 4230 Business Management for Photographers (3)**

Exploratory experiences, information and techniques concerning the use of computer hardware and software use for photographic business management. Prerequisite: PHOT 3250.

**PHOT 4250 Advanced Color Portraiture (3)** Commercial photography providing experiences in posing, exposure, and composition for a color portrait. Precise camera room techniques will be emphasized to ensure the most salable product from machine proofing. Prerequisites: PHOT 1210 and PHOT 3250.

**PHOT 4252 Portfolio Photography (3)** Culminating experience in photography providing for the creation of a successful interview strategy and the production of a portfolio to reflect personal career goals. Prerequisite: 9 semester hours of photography.

**PHOT 4260 Advertising Photography (3)** Theories and practices of advertising photography as a marketing medium with in-depth experience in procedures and techniques. Prerequisite: PHOT 2210.

## Office of Undergraduate Studies

### Academic Enrichment

In the Department of Academic Enrichment, the second digit in the course number stands for the following: 0-General, 1-TRIO Student Support Services, 2-Test Preparation, 4-Orientation, 6-Technology, 8-Learning Techniques and Special Projects, 9-Research.

Academic Enrichment students will develop and demonstrate knowledge and skills needed to:

- Meet and exceed UCM's academic standards through introductory college courses in composition, mathematics and reading.
- Function successfully at UCM through courses designed to orient students to the university environment, college studies and diversity.

#### General

**AE 0020 Suspension Prevention (2)** A self-awareness course required for first-time, full-time freshmen with semester grade-point averages below 1.20. Topics include self-management skills, goal setting, and career exploration. One-to-one mentoring conferences are part of the course requirements.

**AE 1000 Introduction to College Writing (3)** Classroom and tutorial instruction in the process of developing paragraphs and longer essays with emphasis placed on mechanics, usage, and sentence structure.

**AE 1010 Textbook Reading Techniques (3)** Textbook Reading Techniques will introduce students to strategies useful in reading and studying college textbooks. AE 1010 is paired with a content course and a Supplemental Instruction (SI) Lab. Activity will focus on the reading skills appropriate for success in the paired content course.

**AE 1012 Speed Reading (1)** Principles and applications of speed reading and comprehension techniques to textbooks and other types of reading materials. Recommended: Nelson Denny Reading est score of 12th grade level or better. Inquire at AE Learning Center, Humphreys 110.

**AE 1020 College Study Skills (2)** Principles of time management, note taking, memory, and test taking techniques applied to studying for college courses.

**AE 1030 Introductory Algebra (3)** Designed to review or improve basic algebra skills. Includes integers, equations, inequalities, polynomials, factoring, quadratic equations, graphing linear equations and work with word problems.

#### TRIO Student Support Services

**AE 0101 Fundamentals of Writing I SSS (3)** Review and application of English grammar and basic writing techniques. Prerequisite: acceptance into TRIO Student Support Services. Not applicable to graduation requirements.

**AE 0111 Fundamentals of Reading I SSS (3)** Review and application of methods for vocabulary, comprehension, and reading rate development. Prerequisite: acceptance into TRIO Student Support Services. Not applicable to graduation requirements.

**AE 0131 Fundamentals of Math I SSS (3)** Review of fractions and decimals with an introduction to negative numbers and linear equations. Prerequisite: acceptance into TRIO Student Support Services. Not applicable to graduation requirements.

**AE 1102 Fundamentals of Writing II SSS (3)** Continuation and further application of grammar and writing techniques through paragraph and essay development. Prerequisite: acceptance into TRIO Student Support Services and AE 0101 or demonstrated skill level. This course substitutes for AE 1000.

**AE 1112 Fundamentals of Reading II SSS (3)** Continuation and further application of vocabulary, comprehension, and reading rate development, in addition to flexibility and methods for reading college textbooks. Prerequisite: acceptance into TRIO Student Support Services and AE 0111 or demonstrated skill level. This course substitutes for AE 1010.

**AE 1125 College Success Strategies SSS (1)** Focus on personal responsibility to enhance academic achievement. Prerequisite: acceptance into TRIO Student Support Services and AE 1400 or consent.

**AE 1132 Fundamentals of Math II SSS (3)** Continuation and further application of math skills through an introduction to algebra, including properties of numbers, linear equations, graphing, polynomials, factoring, and quadratic equations. Prerequisite: acceptance into TRIO Student Support Services and AE 0131 or demonstrated skill level. This course substitutes for AE 1030.

#### Test Preparation

**AE 1200 C-BASE Review - English (1)** This course is a review of the basic concepts of English (reading and literature, and writing) to assist the student in preparing to take the English section of the College Base Academic Subjects Examination (C-BASE).

**AE 1210 C-BASE Review - Social Studies (1)** This course is a review of the basic concepts of social studies (history and the social sciences) to assist the student in preparing to take the social studies section of the College Base Academic Subjects Examination (C-BASE).

**AE 1220 C-BASE Review - Science (1)** This course is a review of the basic concepts of science (life, earth, and physical) to assist the student in preparing to take the science section of the College Base Academic Subjects Examination (C-BASE).

**AE 1230 C-BASE Review - Mathematics (1)** This course is a review of the basic concepts of mathematics (general mathematics, algebra, and geometry) to assist the student in preparing to take the mathematics section of the College Base Academic Subjects Examination (C-BASE).

**AE 1240 LSAT Test Preparation (1)** This course provides students with information about and practice with the types of questions asked on the LSAT. Strategies for successfully taking this test are also presented. Audit or P/F credit only.

**AE 1250 GRE Test Preparation (1)** This course is designed to help students prepare to take the GRE by becoming more familiar with the adaptive test format used by GRE. Students will be provided with tips and strategies for answering the antonym, analogy, and reading comprehension questions. Time will also be spent practicing for the two writing samples now added to the GRE. Audit or P/F credit only.

#### Orientation

**AE 1400 Freshman Seminar (1)** An introduction to university academics and university life. Intended for all new students at UCM. Topics include university resources, academic skills, interpersonal skills, time management, and goal setting. Open only to students with fewer than 25 University of Central Missouri credits. Not available to students with credit in AE 1420.

**AE 1410 Exploring College Majors and Careers (1)** An introduction to the wide range of college majors and career options. Students develop self-awareness through assessments, counseling, activities, discussions and interviews. Not available to students with credit in AE 1420.

**AE 1420 Freshman Seminar and Career Exploration (2)** An introduction to university academics and university life with emphasis on the wide range of college majors and career options with a focus on self-awareness. Open only to students with fewer than 25 University of Central Missouri credits. Not available to students with credit in AE 1400 or AE 1410.

**AE 1450 Valuing Differences: Discovering Common Ground (1)** Explores personal, experiential, and interactive issues relating to race, gender, class, and culture including ways that culturally diverse populations enrich society through differences and similarities.

### Technology

**AE 1620 MS Office Word (0.5)** An individualized, arranged course designed to teach basic word processing in order to help students achieve their academic and personal technology goals.

**AE 1630 MS Office PowerPoint (0.5)** An individualized, arranged course that teaches the process for creating interactive presentations in order to help students achieve their academic and personal technology goals.

**AE 1640 MS Office Excel (0.5)** An individualized, arranged course that teaches the process of creating spreadsheets, tables, and charts in order to help students achieve their academic and personal technology goals.

**AE 1650 MS Office Access (1.0)** An individualized, arranged course that teaches the process for creating database tables, forms and queries in order to help students achieve their academic and personal technology goals.

### Learning Techniques and Special Projects

**AE 0800 Special Projects (0.5, 1, 1.5, 2, 3)** Individual or group study of material in special areas of interest. *May be repeated for a maximum of 6 semester hours.*

**AE 1800 Special Projects (0.5, 1, 1.5, 2, 3)** Individual or group study of material in special areas of interest. *May be repeated for a maximum of 6 semester hours.*

**AE 1820 Learning Strategies (2)** Learning Strategies helps students develop college-level study skills. The coursework emphasizes strategies for taking lecture notes, reading textbooks, managing time, setting goals, processing information, and taking tests.

**AE 1825 ELO Supplemental Instruction Lab (1)** Supplemental Instruction and structured learning lab for the designated ELO block courses. Corequisite: AE 1820.

**AE 1826 Supplemental Instruction Lab (1)** Supplemental Instruction and structured learning lab for the designated course(s) in which the student is concurrently enrolled. *May be repeated for a total of 6 semester hours.*

**AE 2830 Peer Tutoring in the Writing Center (2)** Introduction to the theory and practice of one-on-one tutoring in a writing center setting, with emphasis on tailoring instruction to specific student populations. Prerequisites: Completion of freshmen English requirements (ENGL 1020 and 1030 or ENGL 1080) or their equivalents with grades of A and cumulative GPA of 3.2.

**AE 4800 Special Projects (0.5, 1.0, 1.5, 2.0, 3.0)** Individual or group study of material in special areas of interest. *May be repeated for a maximum of 6 semester hours.*

### Research

**AE 2950 Undergraduate Research Experience (3)** This course provides undergraduates an opportunity to work one-on-one with faculty in order to learn research techniques or produce creative works in their major field. Students will assist faculty in designing, conducting, and/or analyzing research, or in developing and/or performing creative works. *May be repeated for a maximum of 6 semester hours.* Prerequisites: 1000 level course(s) in major and consent of instructor.

**AE 3900 Introduction to Research Methods and Design (2)** Examines methods for planning and conducting academic research, analyzing and interpreting data, and evaluating existing research in a variety of academic disciplines. Particular attention is given to hypothesis development, operationalization, and data collection techniques.

## Integrative Studies

In the section of Integrative Studies, the second digit identifies the college or area as follows: 1-Applied Sciences and Technology, 2-Arts and Sciences, 3-Harmon College of Business Administration, 4-Education and Human Services, 5-Library Science & Information Services, 6-Academic Enrichment, 7-Honors Program, and 8-International Studies.

The third and fourth digits represent the discipline: 01-Agriculture, 09-Manufacturing, 10-Construction, 11-Nursing, 12-Automotive Technology, 13-Aviation Technology Management, 15-Safety Science & Technology, 16-Graphics, 21-Art, 22-Biology, 24-Communication, 31-History, 32-Mass Communication, 33-Mathematics and Computer Science, 34-Music, 35-Philosophy, 36-Physics, 44-College of Arts & Sciences, 57-Management, 68-Curriculum and Instruction, 72-Physical Education, 78-Social Work, 96-International Studies.

### Integrative Studies Capstone

**ICAP 4101 Agricultural Capstone Experience\* (3)** Integration of agricultural knowledge and problem solving skills using case studies in a seminar forum. Prerequisites: 24 semester hours of agriculture courses and senior standing. \*Not available for graduate credit.

**ICAP 4109 Construction Operations\* (3)** A detailed study of the knowledge, processes and operational procedures involved in a commercial construction project. Prerequisites: CMGT 2310, CMGT 2325, CMGT 3320 and CMGT 3355 and senior standing. \*Not available for graduate credit.

**ICAP 4110 Industrial Problem Solving\* (3)** Designed for students preparing for careers in manufacturing management. Student teams will analyze manufacturing problems, propose solutions, and present recommendations. Prerequisite: senior standing. \*Not available for graduate credit.

**ICAP 4111 Socio-Economic Factors Impacting Health\* (3)** Examines selected socio-economic issues and their impact on health. \*Not available for graduate credit.

**ICAP 4112 Automotive Systems for Contemporary Society\* (3)** Integration of communication, technology, sociology, economics, and ecology with automotive engineering, management and service, emphasizing their reciprocal effects on each other. Prerequisite: senior standing in automotive technology. \*Not available for graduate credit.

**ICAP 4113 Air Operations Management\* (3)** Challenges the student to perform as an effective member of an air operations management team using critical thinking, decision making and ethics. Prerequisite: senior standing in aviation technology. \*Not available for graduate credit.

**ICAP 4115 Safety and Health Management\* (3)** Integration of safety information using conceptual and technical data to resolve safety and health issues. The case study approach will be emphasized. Prerequisites: admission to program, 27 semester hours of SAFE courses and senior standing. \*Not available for graduate credit.

**ICAP 4221 Artists in Contemporary Society\* (3)** Artists examine diverse theories of art and ethics as it impacts their careers in a global society. Prerequisite: Consent to enroll, based on the following conditions: all general studies completed; art major; scheduled for graduation the semester enrolled (or the following semester if an art education major). \*Not available for graduate credit.

**ICAP 4222 The Biological Perspective\* (3)** An examination of current issues from a biological perspective including the impact of biology on history and culture. For biology majors. Prerequisite: 22 semester hours of biology. \*Not available for graduate credit.

**ICAP 4225 Computer Science Capstone Experience\* (3)** Integration of computer science topics from other disciplines, including studies in computer ethics, the social impact of computing, and the psychological issues of computer/human interfaces. Prerequisite: Senior standing in Computer Science. \*Not available for graduate credit.

**ICAP 4233 The Scientific, Historical, and Sociological Impact of Mathematics\* (3)** Provides an opportunity to experience and understand the importance of mathematics in human development. Prerequisite: 15 semester hours of college mathematics.

\*Not available for graduate credit.

**ICAP 4245 Actuarial Science Capstone Experience\* (3)** Integration of actuarial science topics and skills with topics from various other disciplines, including actuarial ethics, social roles, and the Code of Professional Conduct. Prerequisite: MATH 4520, FIN 3850, MGT 3315, MGT 3325, MKT 3405, and senior standing.

\*Not available for graduate credit.

**ICAP 4357 Business Policy\* (3)** Capstone course requiring integration of business knowledge using conceptual, communication, interpersonal, and technical skills applied to strategic management. Case study and competitive simulation methods are used in an experiential team learning environment. Prerequisites: Admission to the B.S.B.A. program, FIN 3850, MGT 3315, MGT 3325, MKT 3405, and senior standing. \*Not available for graduate credit.

**ICAP 4468 Student Teaching Secondary II\* (4)** To be taken in the Professional Semester. For all secondary majors, all K-12 majors, and K-9 majors in elementary physical education. Prerequisite: admission to Teacher Education Program. Corequisite: EDCI 4495 or EDCI 4595 or EDSP 4395. \*Not available for graduate credit.

**ICAP 4478 Integrative Social Work Practicum Seminar\* (3)** Integration of classroom knowledge with 500 hours in social service agency practicum. Open to social work majors only. Corequisite: SOWK 4660. Prerequisites: all other required major courses must be completed and consent of the Coordinator of Field Education. \*Not available for graduate credit.

### Integrative Studies General

**IGEN 3116 Creative Problem Solving (3)** A broad approach to formal techniques in creative problem solving applicable to any field of endeavor and interest. An additional fee is assessed for this course.

**IGEN 3224 Critical Thinking (3)** Provides insight into and application of the skills needed to think critically about interpersonal and media messages, as well as analyze information.

**IGEN 3232 Media Literacy (3)** Explores the relationships between media, its consumers, and producers. Integrates cultural, technological, and economic perspectives on mass media and visual communication.

**IGEN 4224 Communication, Science and Technology (3)** Students will focus on the interactions among science, technology and society by examining scientific communication and scientific and technological controversies. Prerequisite: completion of General Education Div. II A.

**IGEN 4236 Science and Religion: From Conflict to Dialogue\* (3)** A clarification of the historical and philosophical issues that arise in the relationship between science and religion. The course emphasizes a variety of interpretive viewpoints. \*Not available for graduate credit.

**IGEN 4231 Myth, Memory and Realities\* (3)** Examines a selected topic in American or World history and literature to understand how interpretations of the past have been constructed to explain the present. \*Not available for graduate credit.

**IGEN 4244 Comparative Cross-Cultural Cinema\* (3)** Comparison of films with various sub-themes relating to cross-cultural topics such as internationalism, racism and gender. \*Not available for graduate credit.

**IGEN 3468 Community, School and Family Connections (3)** Focuses on the interactions among community, school and family systems relative to existing and emerging paradigms.

**IGEN 3472 Sport in American Life (3)** Provides for an understanding and appreciation of the role of sport in American life.

**IGEN 3896 Assessing Global Change for the Information Age (3)** Challenges students to assess present and future trends, evaluate what is desirable, and reflect on their responsibility for the quality of life in the information age.

## International Programs

### Intensive English Program

The Intensive English Program provides students the opportunity to improve their English skills and become accustomed to a university setting in the United States. The courses are designed to help non-native English speaking students build on their existing language skills. The IEP offers courses at a variety of proficiency levels in reading, writing, grammar, speaking, listening, vocabulary, accent reduction, American culture, academic preparation and testing skills. These courses are credit bearing but do not count toward completion of an academic degree. A course may be repeated for up to 12 credit hours.

### International Studies

In the area of International Studies, the second digit in the course number stands for the following: 0-General.

**ISP 4000 Study Abroad (3-4)** This course allows students to enroll at the University of Central Missouri while attending classes in a sponsored study abroad program. The variable credits are based on the number of credit hours the student plans to complete at the foreign institutions. The actual credit recorded represent those credits completed by the student and transferred back to UCM. May be repeated for a total of 12-16 semester hours in one semester. Prerequisite: approval of the Director of International Programs.

### Integrative Studies General

**IGEN 3896 Assessing Global Change for the Information Age (3)** Challenges students to assess present and future trends, evaluate what is desirable, and reflect on their responsibility for the quality of life in the information age.

## SECTION III

**Four-Year Academic Plans**

To assist students in their course planning, Central Missouri academic departments have developed four-year plans to illustrate how students majoring in specific areas of study might organize their courses so that they may finish their degree program in four years. Obviously, every student's situation is unique and an individual's four-year plan will vary. For example, there may be course prerequisites that may need to be satisfied before a specific course is taken. In addition, a student may already have college credit for certain courses and that might change the sequence of courses the student takes.

Please keep in mind that these four-year plans are illustrative and not legally binding. An academic department may or may not be able to offer a particular course in every semester. Curricular offerings and requirements do change over time and the University of Central Missouri Board of Governors reserves the right to make necessary changes in the curriculum at any time.

Peter L. Viscusi, Ph.D.  
Assistant Provost for Undergraduate Studies  
James C. Kirkpatrick Library 1450  
660-543-4633





**Accounting Functional Major, B.S.B.A. Degree**

2/2007

This is the recommended program of study for the Accounting Functional Major, B.S.B.A. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Accounting for further information or guidance.

<b>Freshman Year - First Semester</b>		<b>Hrs.</b>	<b>Freshman Year - Second Semester</b>		<b>Hrs.</b>
<b>MATH 1111 College Algebra*</b>		3	ECON 1010 Principles of Macroeconomics*		3
BTE 1210 Essentials of Managing Information*		2	<b>ENGL 1030 Composition II</b>		3
<b>ENGL 1020 Composition I</b>		3	COMM 1000 Public Speaking		3
PSY 1100 General Psychology <b>or</b>			<b>HIST 1350 or 1351 or POLS 1510</b>		3
SOC 1800 General Sociology		3	General Education		3
General Education		<b>14</b>	<b>Semester Total</b>		<b>15</b>
<b>Semester Total</b>					
AE 1400 Freshman Seminar**					

<b>Sophomore Year - First Semester</b>		<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>		<b>Hrs.</b>
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	ACCT 2110 Microcomputer Applications		3
<b>General Education Science (w/Lab)</b>		4	General Education		6
General Education		3	<b>Semester Total</b>		<b>15</b>
<b>Semester Total</b>		<b>16</b>	<b>Note: Complete all B.S.B.A. admission requirements, take C-BASE, and apply for admission*</b>		

**Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>		<b>Hrs.</b>	<b>Junior Year - Second Semester</b>		<b>Hrs.</b>
ACCT 3111 Inter. Financial Accounting I		3	ACCT 3112 Intermediate Financial Accounting II		3
ACCT 3120 Cost & Managerial Accounting		3	ACCT 3130 Introduction to Income Tax		3
MGT 3315 Management of Organizations		3	MGT 3325 Business Communications		3
MKT 3405 Marketing Policy		3	FIN 3850 Principles of Finance		3
FIN 3801 Business Statistics II		3	Accounting or Business Elective***		3
Free Choice Elective		1	Free Choice Elective		1
<b>Semester Total</b>		<b>16</b>	<b>Semester Total</b>		<b>16</b>

**Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.**

<b>Senior Year - First Semester</b>		<b>Hrs.</b>	<b>Senior Year - Second Semester</b>		<b>Hrs.</b>
ACCT 4100 Advanced Accounting I		3	BLAW 3721 Law of Business Transactions		3
MGT 3360 Production/Operations Management		3	ICAP 4357 Organizational Policy and Strategy		3
ACCT 3160 Accounting Information Systems		3	ACCT 4105 Auditing		3
Accounting or Business Elective***		3	Non-Business Electives		7
General Education		3	<b>Semester Total</b>		<b>16</b>
Non-Business Elective		1			
<b>Semester Total</b>		<b>16</b>			

**Accounting Major, B.S.B.A. Degree - 124 Hours**

- \*All B.S.B.A. majors except Accounting 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. Accounting majors must complete the preadmission courses with a 2.65 GPA and have a cumulative GPA of 2.65 for admission to the B.S.B.A. in Accounting program. The eight preadmission courses are recommended for completion during the freshman and sophomore years, and are indicated on the plan with an (\*).
- \*\*AE 1400 (1 hr.) is highly recommended for academic success. AE 1400 counts as a free choice, non-business elective.
- \*\*\*Major electives require approval of Department Chair. At least one course must be outside accounting.
- A minimum 15-hour block of General Education in Math, Written Communication, History or Political Science, and Science must be completed in the first three semesters (45 hours) to take the College BASE exam for General Education Assessment. These courses are designated in **bold italics**. Passing of the C-BASE exam is required for admission to the B.S.B.A. program.
- Grade of "C" or higher required for sophomore and junior level Accounting courses.
- A 2.25 cumulative GPA is required for graduation in this major.
- See current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing are dependent upon Planned Placement in math, reading and writing.

**Actuarial Science and Mathematics Functional Major, B.S. Degree**

2/2007

This is the recommended program of study for the Actuarial Science and Mathematics Functional Major, B.S. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Mathematics and Computer Science for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Second Semester</b>	<b>Hrs.</b>
<b>MATH 1151 Calculus &amp; Analytic Geom. I</b>	5	MATH 1152 Calculus & Analytic Geom. II	5
CS 1100 Computer Programming I	3	MATH 2410 Discrete Mathematics	3
ECON 1010 Principles of Macroeconomics	3	CS 2800 Interactive System Design	3
<b>ENGL 1020 Composition I</b>	3	<b>ENGL 1030 Composition II</b>	3
<b>Semester Total</b>	<b>14</b>	<b>HIST 1350 or 1351 or POLS 1510</b>	3
AE 1400 Freshman Seminar*		<b>Semester Total</b>	<b>17</b>

<b>Sophomore Year - First Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs.</b>
MATH 2153 Calculus & Analytic Geometry III	3	MATH 4501 Actuarial Exam Review Prob. Set I***	1
MATH 3311 Introduction to Math Statistics**	3	MATH 4510 Mathematics of Finance***	3
FIN 3861 Financial Management I	3	MATH 4312 Probability Models***	3
<b>General Education Science</b>	3-4	FIN 4817 Managing Financial Derivatives***	3
General Education	3	General Education	6
<b>Semester Total</b>	<b>15-16</b>	<b>Semester Totals</b>	<b>16</b>

**Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>	<b>Hrs.</b>	<b>Junior Year - Second Semester</b>	<b>Hrs.</b>
MATH 2310 Applied Statistics**	3	ECON 3030 Intermediate Microeconomics	3
MATH 3710 Linear Algebra	3	FIN 4803 Principles of Insurance	3
MATH 4511 Act. Exam Review Prob. Set II**	1	General Education	9
ECON 3010 Intermediate Macroeconomics**	3	<b>Semester Total</b>	<b>15</b>
General Education	5		
<b>Semester Total</b>	<b>15</b>		

**Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.**

<b>Senior Year - First Semester</b>	<b>Hrs.</b>	<b>Senior Year - Second Semester</b>	<b>Hrs.</b>
MATH 4520 Life Contingencies**	3	MATH 4530 Actuarial Modeling	3
Free Choice Electives	13	ICAP 4245 Actuarial Science Capstone Exp.***	3
<b>Semester Total</b>	<b>16</b>	Free Choice Electives	6
		Major Elective	3
		<b>Semester Total</b>	<b>15</b>

**Actuarial Science and Mathematics Functional Major, B.S. 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.
- \*\*Fall only course.
- \*\*\* Spring only course.
- 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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

**Agriculture-Business Functional Major, B.S. Degree**

2/2007

This is the recommended program of study for the Agriculture-Business Functional Major, B.S. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Agriculture for further information or guidance.

<b>Freshman Year - First Semester</b>		<b>Hrs.</b>	<b>Freshman Year - Second Semester</b>		<b>Hrs.</b>
AGRI 1110	Introduction to Agriculture	1	AGRI 2425	Livestock Evaluation (Lab)	3
AGRI 1420	Animal Husbandry	3	ECON 1011	Principles of Microeconomics	3
<b>CHEM 1104 Intro. to Sciences: Chem. (Lab)</b>		4	<b>ENGL 1030 Composition II</b>		3
<b>ENGL 1020 Composition I</b>		3	<b>MATH 1111 College Algebra</b>		3
COMM 1000	Public Speaking	3	AGRI 1600	Introductory Horticulture Science (Lab)	3
AGRI 1300	Introductory Plant Science	1	<b>Semester Total</b>		<b>15</b>
<b>Semester Total</b>		<b>15</b>			

<b>Sophomore Year - First Semester</b>		<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>		<b>Hrs.</b>
AGRI 2010	Computer Apps. for Agriculturalists	3	AGRI 2315	Agronomy II: Forages**	2
FIN 1820	Personal Finance	3	ACCT 2101	Principles of Financial Accounting***	3
AGRI 2330	Introduction to Soil Science (Lab)	3	ECON 1010	Principles of Macroeconomics	3
AGRI 1200	Agriculture Mechanics (Lab)*	3	AGRI 2130	Global Agriculture	3
<b>HIST 1350 or 1351 or POLS 1510</b>		3	General Education		6
General Education		3	<b>Semester Total</b>		<b>17</b>
<b>Semester Total</b>		<b>18</b>			

**Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>		<b>Hrs.</b>	<b>Junior Year - Second Semester</b>		<b>Hrs.</b>
AGRI 3140	Agricultural Analysis and Statistics	3	AGRI 4110	Agricultural Futures Trading	3
AGRI 3110	Agriculture Business Management	3	AGRI 2331	Soils	3
MKT 3430	Personal Selling	3	AGRI 4140	Agricultural Policy	3
AGRI 3420	Animal Nutrition	3	General Education		5-6
ECON 3030	Intermediate Microeconomics	3	<b>Semester Total</b>		<b>14-15</b>
<b>Semester Total</b>		<b>15</b>			

**Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.**

<b>Senior Year - First Semester</b>		<b>Hrs.</b>	<b>Senior Year - Second Semester</b>		<b>Hrs.</b>
AGRI 4340	Agri. Sprays and Chemicals (Lab)****	3	ICAP 4101	Agricultural Capstone Experience	3
AGRI 4820	Agriculture Safety	3	AGRI 4150	Natural Resources Econ. for Agri.	3
BLAW 2720	Legal Environment of Business	3	AGRI 4120	International Agriculture	3
AGRI 3120	Distrib. and Marketing Agri. Products	3	General Education		3
General Education		3	Free Choice Electives		3
<b>Semester Total</b>		<b>15</b>	<b>Semester Total</b>		<b>15</b>

**Agriculture-Business Functional Major, B.S. Degree - 124 hours**

- \*AGRI 3200 Farm Power and Machinery may be taken instead of AGRI 1200.
- \*\*AGRI 1310 Agronomy I: Row Crops (Lab) may be taken instead of AGRI 2315.
- \*\*\*ACCT 2100 Survey of Accounting may be taken instead of ACCT 2101.
- \*\*\*\*AGRI 3610 Agricultural Pest Management (Lab) may be taken instead of AGRI 4340.
- 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.
- 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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites. Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

**Agricultural Technology - Agricultural Mechanization Functional Major, B.S. Degree** 2/2007

This is the recommended program of study for the Agricultural Technology - Agricultural Mechanization Functional Major, B.S. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective UCM students should contact the Department of Agriculture for further information or guidance.

<b>Freshman Year - First Semester</b>		<b>Hrs.</b>	<b>Freshman Year - Second Semester</b>		<b>Hrs.</b>
AGRI 1100	Introduction to Agriculture	1	AGRI 1600	Introductory Horticulture Sci. (Lab)	3
AGRI 1200	Agricultural Mechanics (Lab)	3	ECON 1011	Principles of Microeconomics	3
<b>CHEM 1104</b>	<b>Intro. to Sciences: Chem. (Lab)</b>	4	<b>ENGL 1030</b>	<b>Composition II</b>	3
<b>ENGL 1020</b>	<b>Composition I</b>	3	<b>MATH 1111</b>	<b>College Algebra</b>	3
COMM 1000	Public Speaking	3	<b>HIST 1350 or 1351 or POLS 1510</b>		3
AGRI 1300	Introductory Plant Science	1	General Education		2-3
<b>Semester Total</b>		<b>15</b>	<b>Semester Total</b>		<b>17-18</b>

<b>Sophomore Year - First Semester</b>		<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>		<b>Hrs.</b>
AGRI 1420	Animal Husbandry	3	AGRI 2315	Agronomy II: Forages*	2
AGRI 2330	Introduction to Soil Science (Lab)	3	AGRI 2425	Livestock Evaluation (Lab)	3
AGRI 2010	Comp. Applications for Agriculturalists	3	CHEM 2650	Elem. Organic & Biochem. (Lab)	5
AGRI 2130	Global Agriculture	3	GRAP 1110	Fundamentals of Drafting	3
ET 1010	Applied Electricity	3	GRAP 2170	Intro. to Computer-Aided Drafting	3
<b>Semester Total</b>		<b>15</b>	<b>Semester Total</b>		<b>16</b>

**Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>		<b>Hrs.</b>	<b>Junior Year - Second Semester</b>		<b>Hrs.</b>
AGRI 3120	Dist. and Marketing Agri. Products**	3	AGRI 4300	Soil Fertility and Fertilizers	3
AGRI 1610	Est. & Care of Greenhouse Plants (Lab)	3	AGRI 3200	Farm Power and Machinery	3
AGRI 3140	Agricultural Analysis and Statistics	3	AGRI 4410	General Veterinary Science	3
AGRI 3610	Agriculture Pest Management (Lab)	3	General Education		6
General Education		3	<b>Semester Total</b>		<b>15</b>
<b>Semester Total</b>		<b>15</b>			

**Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.**

<b>Senior Year - First Semester</b>		<b>Hrs.</b>	<b>Senior Year - Second Semester</b>		<b>Hrs.</b>
AGRI 4340	Agri. Sprays and Chemicals (Lab)	3	PR&T 3150	Diesel Technology (Lab)	3
AGRI 4310	Plant Improvement (Lab)	3	General Education		9
PR&T 4032	Hydraulics & Pneumatics	3	ICAP 4101	Agricultural Capstone Experience	3
PR&T 3140	Transmissions & Drive Lines***	3	Free Choice Elective****		1
General Education		3	<b>Semester Total</b>		<b>16</b>
<b>Semester Total</b>		<b>15</b>			

### **Agricultural Technology - Agricultural Mechanization Functional Major, B.S. Degree - 124 hours**

- \*AGRI 1310 Agronomy I: Row Crops (Lab) may be taken instead of AGRI 2315.
- \*\*AGRI 3110 Agri-Business Management may be taken instead of AGRI 3120
- \*\*\*PR&T 3110 Auto. Engine Overhaul may be taken instead of PR&T 3140.
- \*\*\*\*The above plan includes 36 hours of upper-level credit. A minimum of 40 upper-level hours must be earned to meet graduation requirements. Students may either choose upper-level general education coursework (COMM 3000 and COMM 3010) or choose upper-level free choice electives.
- 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.
- 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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

**Agricultural Technology - Agronomic Technology Functional Major, B.S. Degree**

2/2007

This is the recommended program of study for the Agricultural Technology - Agronomic Technology Functional Major, B.S. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Agriculture for further information or guidance.

<b>Freshman Year - First Semester</b>		<b>Hrs.</b>	<b>Freshman Year - Second Semester</b>		<b>Hrs.</b>
AGRI 1100	Introduction to Agriculture	1	AGRI 1600	Introductory Horticulture Sci. (Lab)	3
AGRI 1300	Introductory Plant Science	1	BIOL 1111	Biology I (General Botany) (Lab)	4
AGRI 1310	Agronomy I: Row Crops*	2	<b>ENGL 1030 Composition II</b>		3
<b>CHEM 1104 Intro. to Sciences: Chem. (Lab)</b>		4	<b>MATH 1111 College Algebra</b>		3
<b>ENGL 1020 Composition I</b>		3	<b>HIST 1350 or 1351 or POLS 1510</b>		3
COMM 1000	Public Speaking	3	<b>Semester Total</b>		<b>16</b>
	General Education	2-3			
<b>Semester Total</b>		<b>16-17</b>			

<b>Sophomore Year - First Semester</b>		<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>		<b>Hrs.</b>
AGRI 1420	Animal Husbandry	3	AGRI 2010	Computer Apps. for Agriculturalists	3
AGRI 2330	Introduction to Soil Science (Lab)	3	AGRI 2130	Global Agriculture	3
AGRI 1200	Agriculture Mechanics (Lab)	3	AGRI 2425	Livestock Evaluation (Lab)	3
EASC 1004	Introduction to Geology (Lab)	4	CHEM 2650	Elem. Organic & Biochem. (Lab)	5
ECON 1011	Principles of Microeconomics	3	General Education		3
<b>Semester Total</b>		<b>16</b>	<b>Semester Total</b>		<b>17</b>

**Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>		<b>Hrs.</b>	<b>Junior Year - Second Semester</b>		<b>Hrs.</b>
AGRI 3120	Dist. and Marketing Agri. Products**	3	AGRI 4300	Soil Fertility and Fertilizers	3
AGRI 1610	Establishment and Care of Greenhouse Plants (Lab)	3	AGRI 2331	Soils	3
AGRI 3140	Agriculture Analysis and Statistics	3	General Education		9
AGRI 4610	Turfgrasses	3	<b>Semester Total</b>		<b>15</b>
AGRI 3610	Agriculture Pest Management (Lab)	3			
<b>Semester Total</b>		<b>15</b>			

**Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.**

<b>Senior Year - First Semester</b>		<b>Hrs.</b>	<b>Senior Year - Second Semester</b>		<b>Hrs.</b>
BIOL 3611	Microbiology	4	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	Free Choice Electives***		7
AGRI 4310	Plant Improvement (Lab)	3	<b>Semester Total</b>		<b>13</b>
General Education		3			
<b>Semester Total</b>		<b>16</b>			

**Agricultural Technology - Agronomic Technology Functional Major, B.S. Degree - 124 hours**

- \*AGRI 2315 Agronomy II: Forages (Lab) may be taken instead of AGRI 1310.
- \*\*AGRI 3110 Agri-Business Management may be taken instead of AGRI 3120.
- \*\*\*The above plan includes 34 hours of upper-level credit. A minimum of 40 upper-level hours must be earned to meet graduation requirements. Students may either choose upper-level general education coursework (COMM 3000 and COMM 3010) or choose upper-level free choice electives.
- 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. Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.
- 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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

**Agricultural Technology - Animal Technology Functional Major, B.S. Degree**

2/2007

This is the recommended program of study for the Agricultural Technology: Animal Technology Functional Major, B.S. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Agriculture for further information or guidance.

<b>Freshman Year - First Semester</b>		<b>Hrs.</b>	<b>Freshman Year - Second Semester</b>		<b>Hrs.</b>
AGRI 1100	Introduction to Agriculture	1	AGRI 2425	Livestock Evaluation (Lab)	3
AGRI 1420	Animal Husbandry	3	AGRI 1600	Introductory Horticulture Sci. (Lab)	3
<b>CHEM 1104</b>	<b>Intro. to Sciences: Chemistry</b>	4	BIOL 1111	Biology I (General Botany) (Lab)	4
<b>ENGL 1020</b>	<b>Composition I</b>	3	<b>ENGL 1030</b>	<b>Composition II</b>	3
COMM 1000	Public Speaking	3	<b>MATH 1111</b>	<b>College Algebra</b>	3
AGRI 1300	Introductory Plant Science	1	<b>Semester Total</b>		<b>16</b>
<b>Semester Total</b>		<b>15</b>			

<b>Sophomore Year - First Semester</b>		<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>		<b>Hrs.</b>
AGRI 3410	Animal Breeding	3	AGRI 2010	Computer Apps. for Agriculturalists	3
AGRI 2330	Introduction to Soil Science (Lab)	3	AGRI 2315	Agronomy II: Forages*	2
AGRI 2130	Global Agriculture	3	CHEM 2650	Elem. Organic & Bio. Chem. (Lab)	5
AGRI 1200	Agriculture Mechanics (Lab)	3	ECON 1011	Principles of Microeconomics	3
<b>HIST 1350 or 1351 or POLS 1510</b>		3	General Education		3
<b>Semester Total</b>		<b>15</b>	<b>Semester Total</b>		<b>16</b>

**Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>		<b>Hrs.</b>	<b>Junior Year - Second Semester</b>		<b>Hrs.</b>
AGRI 3120	Distribution & Mktg. Agri. Products**	3	AGRI 4300	Soil Fertility and Fertilizers	3
AGRI 1610	Establishment & Care of Greenhouse Plants (Lab)	3	AGRI 4435	Animal Science: Pork	3
AGRI 4415	Reproduction of Farm Animals (Lab)	3	AGRI 4410	General Veterinary Science	3
AGRI 3140	Agriculture Analysis and Statistics	3	General Education		6
General Education		3	<b>Semester Total</b>		<b>15</b>
<b>Semester Total</b>		<b>15</b>			

**Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.**

<b>Senior Year - First Semester</b>		<b>Hrs.</b>	<b>Senior Year - Second Semester</b>		<b>Hrs.</b>
AGRI 4000	Special Projects - Meat Technology	2	AGRI 4430	Animal Science - Beef (Lab)	3
AGRI 3610	Agricultural Pest Management (Lab)	3	AGRI 4110	Agricultural Futures Trading	3
AGRI 3420	Animal Nutrition	3	AGRI 4310	Plant Improvement (Lab)	3
General Education		8	ICAP 4101	Agricultural Capstone Experience	3
<b>Semester Total</b>		<b>16</b>	General Education		3
			Free Choice Elective		1
			<b>Semester Total</b>		<b>16</b>

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

- \*AGRI 1310 Agronomy I: Row Crops (Lab) may be taken instead of AGRI 2315.
- \*\*AGRI 3110 Agri-Business Management may be taken instead of AGRI 3120
- 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.
- 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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

**Agricultural Technology - Horticultural Technology Functional Major, B.S. Degree**

2/2007

This is the recommended program of study for the Agricultural Technology - Horticultural Technology Functional Major, B.S. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Agriculture for further information or guidance.

<b>Freshman Year - First Semester</b>		<b>Hrs.</b>	<b>Freshman Year - Second Semester</b>		<b>Hrs.</b>
AGRI 1100	Introduction to Agriculture	1	AGRI 2425	Livestock Evaluation (Lab)	3
AGRI 1610	Establishment & Care of Greenhouse Plants (Lab)	3	AGRI 1600	Intro. Horticulture Science (Lab)	3
		4	ECON 1011	Principles of Microeconomics	3
<b>CHEM 1104</b>	<b>Intro to Sciences Chem. (Lab)</b>	3	<b>ENGL 1030</b>	<b>Composition II</b>	3
<b>ENGL 1020</b>	<b>Composition I</b>	3	<b>MATH 1111</b>	<b>College Algebra</b>	3
AGRI 1420	Animal Husbandry	1	General Education		2-3
AGRI 1300	Introductory Plant Science	15	<b>Semester Total</b>		<b>17-18</b>
<b>Semester Total</b>					

<b>Sophomore Year - First Semester</b>		<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>		<b>Hrs.</b>
AGRI 2010	Comp. Applications for Agriculturalists	3	AGRI 2315	Agronomy II Forages*	2
AGRI 2330	Introduction to Soil Science (Lab)	3	AGRI 2130	Global Agriculture	3
AGRI 1200	Agriculture Mechanics (Lab)	3	CHEM 2650	Elem. Organic & Biochemistry (Lab)	5
BIO 1111	Biology I (General Botany) (Lab)	4	COMM 1000	Public Speaking	3
<b>HIST 1350 or 1350 or POLS 1510</b>		3	General Education		3
<b>Semester Total</b>		<b>16</b>	<b>Semester Total</b>		<b>16</b>

**Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>		<b>Hrs.</b>	<b>Junior Year - Second Semester</b>		<b>Hrs.</b>
AGRI 3140	Agriculture Analysis and Statistics	3	AGRI 4300	Soil Fertility and Fertilizers	3
AGRI 4310	Plant Improvement (Lab)	3	AGRI 3640	Horticult. Propagation Materials (Lab)	3
AGRI 4000	Special Project: Commercial Greenhouse & Nursery Management	2	AGRI 4410	General Veterinary Science	3
AGRI 4605	Horticultural Plants II: Herbaceous	3	General Education		3
General Education		6	<b>Semester Total</b>		<b>15</b>
<b>Semester Total</b>		<b>17</b>			

**Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.**

<b>Senior Year - First Semester</b>		<b>Hrs.</b>	<b>Senior Year - Second Semester</b>		<b>Hrs.</b>
AGRI 4320	Agricultural Plant Diseases (Lab)	3	AGRI 4600	Horticulture Plants I Woody (Lab)	3
AGRI 4610	Turfgrasses (Lab)	3	AGRI 3620	Residential Landscape Design (Lab)	3
AGRI 3610	Agricultural Insect Control (Lab)	3	ICAP 4101	Agricultural Capstone Experience	3
AGRI 3120	Distribution & Marketing Agriculture Products**	3	General Education		3
General Education		3	Free Choice Elective***		1
<b>Semester Total</b>		<b>15</b>	<b>Semester Total</b>		<b>13</b>

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

- \*AGRI 1310 Agronomy I: Row Crops may be taken instead of AGRI 2315 Agronomy II: Forages (Lab).
- \*\*AGRI 3110 Agri-Business Management may be taken instead of AGRI 3120.
- You will not need one hour of free choice elective if you choose a technology course that is worth three credit 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.
- 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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

**Art Functional Major, B.S. in Ed. Degree**

2/2007

This is the recommended program of study for the Art Functional Major, B.S. in Ed. at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Art for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Second Semester</b>	<b>Hrs.</b>
ART 1110 Drawing I	3	ART 1120 Drawing II	3
ART 1315 Design I	3	ART 1325 Design II	3
ART 1800 Ideas and the Visual Arts	3	<b>ENGL 1030 Composition II</b>	3
<b>ENGL 1020 Composition I</b>	3	<b>General Education Math</b>	3
General Education	3	<b>HIST 1350 or 1351 US History</b>	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>
AE 1400 Freshman Seminar*			

<b>Sophomore Year - First Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs.</b>
EDCI 2100 Found. of Educ. & Field Experience	3	ART 2710 Introduction to Printmaking	3
EDCI 2240 Educational Psychology	3	ART 1825 Art History Survey II	3
ART 2412 Ceramics	3	ART 2420 Sculpture I	3
ART 1815 Art History Survey I (fall) <b>or</b> ART 1835 Survey of Non-West Art (spring)	3	<b>General Education Science**</b>	3
<b>POLS 1510 American Government</b>	3	General Education	6
General Education	3	<b>Semester Total</b>	<b>18</b>
<b>Semester Total</b>	<b>18</b>		

**Take the College BASE for Teachers Exam the semester following the completion of the 15 hour set of General Education courses.**

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

**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.**

<b>Senior Year - First Semester</b>	<b>Hrs.</b>	<b>Senior Year - Second Semester</b>	<b>Hrs.</b>
ART 3920 Methods of Teaching Art II: Secondary	3	EDCI 4595 Student Teaching Elementary I	5
EDCI 3500 Sec. Teaching and Behavior Mgmt.	3	ART 4930 K-12 Field Experience in Art	1
EDCI 3550 Practicum in Sec. Institution	1	ART 4920 Methods of Teaching Art III: Seminar for Student Teaching	2
EDCI 4300 Ed. Measures & Evaluation	2	ICAP 4468 Student Teaching Secondary II	4
Upper Level Studio Concentration	3	<b>Semester Total</b>	<b>12</b>
ICAP 4221 Artists in Contemporary Society	3		
<b>Semester Total</b>	<b>15</b>		

**Art Education 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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.



## Athletic Training Functional Major, B.S. Degree

2/2007

This is the recommended program of study for the Athletic Training Functional Major, B.S. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective UCM students should contact the Department of Health and Human Performance for further information or guidance.

Freshman Year - First Semester		Hrs.	Freshman Year - Second 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	Responding to Emergencies for the Professional Rescuer	3	PE 2800	Human Anatomy	3
AT 2600	Medical Terminology	1	<b>ENGL 1030 Composition II</b>		3
<b>CHEM 1104 Intro. to Sciences: Chemistry</b>		4	BIOL 2401	Anatomy & Physiology I	4
<b>ENGL 1020 Composition I</b>		3	<b>MATH 1111 College Algebra</b>		3
AE 1400	Freshman Seminar*	1	<b>Semester Total</b>		<b>16</b>
<b>Semester Total</b>		<b>15</b>			

Sophomore Year - First Semester		Hrs.	Sophomore Year - Second Semester		Hrs.
AT 2610	Orthopedic Assessment: Lower Extremity	2	AT 2620	Ortho. Assessment: Upper Extremity	2
AT 2611	Ortho. Assessment: Lower Ext. Lab III	1	AT 2621	Ortho. Assessment: Upper Ext. Lab IV	1
<b>HIST 1350 or 1351 U.S. History</b>		3	AT 2630	Therapeutic Modalities	2
PE 2320	Analysis & Teaching Weight Training	1	AT 2631	Therapeutic Modalities Lab	1
PE 2850	Foundations of Exercise Physiology	3	PSY 1100	General Psychology	3
BIOL 2402	Anatomy & Physiology II	4	HED 4300	Nutrition & Human Performance	2
General Education & Electives		3	PE 3800	Kinesiology	3
<b>Semester Total</b>		<b>17</b>	<b>Semester Total</b>		<b>14</b>

Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.

Junior Year - First Semester		Hrs.	Junior Year - Second Semester		Hrs.
AT 3620	Clinical Athletic Training 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	PE 4740	Legal Liability	2
AT 3650	Sport & Exercise Pharmacology	3	General Education & Electives		9
HED 4370	Human Diseases	3	<b>Semester Total</b>		<b>16</b>
PE 1206	Lifetime Fitness	3			
General Education & Electives		3			
<b>Semester Total</b>		<b>17</b>			

Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.

Senior Year - First Semester		Hrs.	Senior Year - Second 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	PE 4850	Assessment & Evaluation of Fit/Wellness	3
General Education		9	IGEN 3472	Sport in American Life	3
<b>Semester Total</b>		<b>16</b>	General Education & Electives		3
			<b>Semester Total</b>		<b>13</b>

## Athletic Training Functional Major, B.S. Degree - 124 hours

- \*AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective.
- A minimum 15-hour block of General Education in Math, Written Communication, History or Political Science, and Science must be completed in the first four semesters to prepare for the C-BASE exam. These courses are indicated in the plan in **bold italics**.
- 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.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

## Automotive Technology Management Functional Major, B.S. Degree

2/2007

**Automotive Technology Option**

This is the recommended program of study for the Automotive Technology Management Functional Major (Automotive Technology Option), B.S. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective UCM students should contact the School of Technology for further information or guidance.

<b>Freshman Year - First Semester</b>		<b>Hrs.</b>	<b>Freshman Year - Second Semester</b>		<b>Hrs.</b>
PR&T 1010	Power Mechanics	3	GRAP 1110	Fundamentals of Drafting	2
ET 1026	DC Circuit Analysis	4	GRAP 1105	Basic Auto CAD	1
<b>MATH 1111</b>	<b>College Algebra</b>	3	MMGT 2530	Machine Tool Technology	3
<b>ENGL 1020</b>	<b>Composition I</b>	3	ECON 1010	Principles of Macroeconomics	3
AE 1400	Freshman Seminar*	1	<b>ENGL 1030</b>	<b>Composition II</b>	3
<b>Semester Total</b>		<b>14</b>	MATH 1131	Technical Calculus <b>or</b>	

T&OE 1042	Technical Mathematics II	3
BTE 1210	Essentials of Managing Information	2
<b>Semester Total</b>		<b>17</b>

<b>Sophomore Year - First Semester</b>		<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>		<b>Hrs.</b>
PR&T 2130	Automotive Electrical Systems	4	PR&T 2132	Fuel Systems & Emission Controls	4
<b>PHYS 1104</b>	<b>Intro. to Sciences: Physics</b>	4	<b>HIST 1350 or 1351 or POLS 1510</b>		3
PR&T 2110	Engine Theory	4	Div. II, Area C	Humanities	3
T&OE 3060	Technical Report Writing	3	Div. III	Personal Interaction	3
COMM 1000	Public Speaking	3	PSY 1100	General Psychology	3
<b>Semester Total</b>		<b>18</b>	<b>Semester Total</b>		<b>16</b>

Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.

<b>Junior Year - First Semester</b>		<b>Hrs.</b>	<b>Junior Year - Second Semester</b>		<b>Hrs.</b>
PR&T 3120	Steering and Suspension Systems	4	PR&T 3150	Diesel Technology	3
PR&T 3124	Automotive Braking Systems	4	PR&T 4032	Hydraulics & Pneumatics	3
INDM 4210	Industrial Management <b>or</b>	3	PR&T 3130	Automotive Computer Diagnostics	4
MGT 3310	Principles of Management		ACCT 2100	Survey of Accounting	3
CHEM 1103	Intro. to Sciences: Chemistry	3	Div. II, Area C	Humanities	3
<b>Semester Total</b>		<b>14</b>	<b>Semester Total</b>		<b>16</b>

<b>Summer – Between Junior &amp; Senior Year</b>		<b>Hrs.</b>	<b>Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.</b>	
T&OE 3022	Internship in Technology**	5		
<b>Semester Total</b>		<b>5</b>		

<b>Senior Year - First Semester</b>		<b>Hrs.</b>	<b>Senior Year - Second Semester</b>		<b>Hrs.</b>
PR&T 2150	Mobile HVAC	3	PR&T 3140	Transmissions & Drivelines	4
BLAW 2720	Legal Environment of Business	3	ICAP 4112	Automotive Systems for Cont. Society	3
Div. II, Area D	Cultural Interaction	3	PR&T 3134	Advanced Powerplant Systems	4
Div. II, Area C	Humanities	3	Free Choice Elective (Upper Division)		3
MKT 3400	Principles of Marketing <b>or</b>	3	<b>Semester Total</b>		<b>14</b>
HRM 3920	Human Resource Management				
<b>Semester Total</b>		<b>15</b>			

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

- If students wish to take HRM 3920 rather than MKT 3400, they must take MGT 3310 rather than INDM 4210.
- \*AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective.
- \*\*T&OE 3022 Internship (3 hours) should be done during the summer of junior/senior year.
- 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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

## Automotive Technology Management Functional Major, B.S. Degree

2/2007

**Design Technology Option**

This is the recommended program of study for the Automotive Technology Management Functional Major (Design Technology Option), B.S. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective UCM students should contact the School of Technology for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Second Semester</b>	<b>Hrs.</b>
PR&T 1010 Power Mechanics	3	GRAP 1110 Fundamentals of Drafting	2
ET 1026 DC Circuit Analysis	4	GRAP 1105 Basic AutoCAD	1
<b>MATH 1111 College Algebra</b>	3	MMGT 2530 Machine Tool Technology	3
<b>ENGL 1020 Composition I</b>	3	<b>ENGL 1030 Composition II</b>	3
AE 1400 Freshman Seminar*	1	ECON 1010 Principles of Macroeconomics	3
<b>Semester Total</b>	<b>14</b>	MATH 1131 Technical Calculus <b>or</b> T&OE 1042 Technical Mathematics II	3
		BTE 1210 Essentials of Managing Information	2
		<b>Semester Total</b>	<b>17</b>
<b>Sophomore Year - First Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs.</b>
PR&T 2130 Automotive Electrical Systems	4	PR&T 2132 Fuel Systems	4
<b>Phys 1104: Intro. to Sciences: Physics</b>	4	PSY 1100 General Psychology	3
PR&T 2110 Engine Theory	4	<b>HIST 1350 or 1351 or POLS 1510</b>	3
T&OE 3060 Technical Report Writing	3	Div. II, Area B Social Science	3
COMM 1000 Public Speaking	3	Div. III, Personal Interaction	3
<b>Semester Total</b>	<b>18</b>	<b>Semester Total</b>	<b>16</b>

**Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>	<b>Hrs.</b>	<b>Junior Year - Second Semester</b>	<b>Hrs.</b>
PR&T 3120 Steering and Suspension Systems	4	PR&T 3150 Diesel Technology	3
PR&T 3124 Automotive Braking Systems	4	PR&T 4032 Hydraulics & Pneumatics	3
INDM 4210 Industrial Management <b>or</b> MGT 3310 Principles of Management	3	PR&T 3130 Computer Diagnostics	4
General Education	3	ACCT 2100 Survey of Accounting	3
<b>Semester Total</b>	<b>14</b>	CHEM 1103 Introduction to Chemistry	3
		<b>Semester Total</b>	<b>16</b>

**Summer – Between Junior & Senior Year**  
T&OE 3022 Internship in Technology\*\*  
**Semester Total**

**Hrs.**  
3  
**3**

**Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.**

**Senior Year - First Semester**

GRAP 2170 Intro. to Computer-Aided Drafting 3

HRM 3920 Human Resource Management **or** 3  
MKT 3400 Principles of Marketing

Major Option Area 2 Elective\*\*\* 3

Div. II, Area C Humanities 3

Div. II, Area D Cultural Interaction 3

**Semester Total** 15

**Senior Year - Second Semester**

ICAP 4112 Automotive Systems for Cont. Soc. 3

PR&T 3134 Advanced Engine Control 4

BLAW 2720 Legal Environment of Business 3

Upper-Level Free Choice Elective 3

Major Option Area 2 Electives\*\*\* 3

**Semester Total** 16

**Automotive Technology Management Functional Major, B.S. Degree  
Design Technology Option - 128 hours minimum required**

- \*AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective.
- \*\*T&OE 3022 Internship (3 hours) should be done during the summer of junior/senior year.
- \*\*\*See departmental adviser for a listing of the approved elective courses within Area 2.
- If students wish to take HRM 3920 rather than MKT 3400, they must take MGT 3310 rather than INDM 4210.
- 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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

**Automotive Technology Management Functional Major, B.S. Degree**

2/2007

**Service Management Option**

This is the recommended program of study for the Automotive Technology Management Functional Major (Service Management Option), B.S. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective UCM students should contact the School of Technology for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Second Semester</b>	<b>Hrs.</b>
PR&T 1010 Power Mechanics	3	GRAP 1110 Fundamentals of Drafting	2
ET 1026 DC Circuit Analysis	4	MMGT 2530 Machine Tool Technology	3
<b>MATH 1111 College Algebra</b>	3	ECON 1010 Principles of Macroeconomics	3
<b>ENGL 1020 Composition I</b>	3	<b>ENGL 1030 Composition II</b>	3
AE 1400 Student Development Seminar*	1	MATH 1131 Technical Calculus <b>or</b>	3
<b>Semester Total</b>	<b>14</b>	T&OE 1042 Technical Math II	

BTE 1210 Essentials of Managing Information	2
GRAP 1105 Basic AutoCAD	1
<b>Semester Total</b>	<b>17</b>

<b>Sophomore Year - First Semester</b>	<b>Hrs.</b>
PR&T 2130 Automotive Electrical Systems	4
<b>Phys 1104: Intro to Sciences: Physics</b>	4
PR&T 2110 Engine Theory	4
T&OE 3060 Technical Report Writing	3
COMM 1000 Public Speaking	3
<b>Semester Total</b>	<b>18</b>

<b>Sophomore Year - Second Semester</b>	<b>Hrs.</b>
PR&T 2132 Fuel Systems	4
<b>HIST 1350 or 1351 or POLS 1510</b>	3
Div. II, Area B Social Science	3
Div. III Personal Interaction	3
PSY 1100 General Psychology	3
<b>Semester Total</b>	<b>16</b>

**Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>	<b>Hrs.</b>
PR&T 3120 Steering/Suspension	4
PR&T 3124 Braking Systems	4
INDM 4210 Industrial Management <b>or</b>	3
MGT 3310 Principles of Management	
CHEM 1103 Intro. to Chemistry	3
<b>Semester Total</b>	<b>14</b>

<b>Junior Year - Second Semester</b>	<b>Hrs.</b>
PR&T 3150 Diesel Technology	3
PR&T 4032 Hydraulics & Pneumatics	3
PR&T 3130 Auto Computer Diagnostics	4
ACCT 2100 Survey of Accounting	3
Div. II, Area C Humanities	3
<b>Semester Total</b>	<b>16</b>

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

**Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.**

<b>Senior Year - First Semester</b>	<b>Hrs.</b>
BLAW 2720 Legal Environment of Business	3
MKT 3400 Principles of Marketing <b>or</b>	3
HRM 3920 Human Resource Management	
Div. II, Area C Humanities	3
Div. II, Area D Cultural Interaction	3
Major Option Area 3 Elective***	3
<b>Semester Total</b>	<b>15</b>

<b>Senior Year - Second Semester</b>	<b>Hrs.</b>
ICAP 4112 Automotive Systems for Cont. Society	3
PR&T 3134 Advanced Eng. Control	4
Free Choice Elective (Upper Division)	3
Major Option Area 3 Electives***	6
<b>Semester Total</b>	<b>16</b>

**Automotive Technology Management Functional Major, B.S. Degree Service Management Option - 128 hrs minimum required**

- If students wish to take HRM 3920 rather than MKT 3400, they must take MGT 3310 rather than INDM 4210.
- \*AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective.
- \*\* T&OE 3022 Internship (3.0 hrs) should be completed in the summer of the Junior/Senior year.
- \*\*\*See departmental adviser for a listing of the approved elective courses within Option Area 3 of the major.
- 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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

**Aviation Technology: Airport Management Functional Major, B.S. Degree**

2/2007

**Airport Management Area of Concentration (Area 3)**

This is the recommended program of study for the Aviation Technology: (Airport Management) Functional Major, B.S. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective UCM students should contact the Department of Aviation for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Second Semester</b>	<b>Hrs.</b>
<b><i>ENGL 1020 Composition I</i></b>	3	GRAP 1110 Fundamentals of Drafting	3
<b><i>MATH 1111 College Algebra</i></b>	3	AVIA 1320 Private Flight A	1
AVIA 1020 Aeronautics (2) <b>or</b>		<b><i>ENGL 1030 Composition II</i></b>	3
AVIA 1310 FAA Private Requirements (4)	2-4	<b><i>PHYS 1104 Intro. to Sciences: Physics</i></b>	4
General Education	6	General Education	6
<b>Semester Total</b>	<b>14-16</b>	<b>Semester Total</b>	<b>17</b>
AE 1400 Freshman Seminar*			

<b>Sophomore Year - First Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs.</b>
PR&T 3010 Transportation Systems	3	MCOM 2320 Public Relations	3
ACCT 2100 Survey of Physics	3	FIN 2801 Business Statistics I	3
MATH 1131 Business Calculus	3	T&OE 3060 Technical Report Writing	2
BLAW 2720 Legal Environment of Business	3	LIS 1600 Information Resources <b>or</b>	
General Education	3	BTE 1210 Impact of Computer Based Tech.	2
<b>Semester Total</b>	<b>15</b>	<b><i>HIST 1350 or 1351 or POLS 1510</i></b>	3
		General Education	3
		<b>Semester Total</b>	<b>16</b>

**Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>	<b>Hrs.</b>	<b>Junior Year - Second Semester</b>	<b>Hrs.</b>
ECON 1010 Principles of Macroeconomics	3	MGT 3310 Principles of Management	3
MKT 3400 Principles of Marketing	3	FIN 3850 Principles of Finance	3
AVIA 4040 Aviation Management	3	GRAP 4570 Computer Graphics	3
GRAP 2170 Introduction to CAD	3	AVIA 4010 Aerodynamics	3
General Education	3	Free Choice Elective	0-1
<b>Semester Total</b>	<b>15</b>	General Education	3
		<b>Semester Total</b>	<b>15-16</b>

<b>Summer – Between Junior/Senior Year</b>	<b>Hrs.</b>	<b>Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.</b>
T&OE 3022 Internship	3	
<b>Semester Total</b>	<b>3</b>	

<b>Senior Year – First Semester</b>	<b>Hrs.</b>	<b>Senior Year - Second Semester</b>	<b>Hrs.</b>
AVIA 4500 Aviation Safety	3	AVIA 4090 Aviation Law	3
AVIA 4310 Air Traffic Control	2	AVIA 4420 Air Transportation	3
HRM 3920 Human Resource Mgmt.	3	AVIA 4045 Airport Management	3
GEOG 4265 Urban Geography	3	AVIA 4330 Sport Aviation	2
SAFE 3000 Prin. of Accid. Causation & Prevent.	3	ICAP 4113 Air Operations Management	3
<b>Semester Total</b>	<b>14</b>	<b>Semester Total</b>	<b>14</b>

**Aviation Technology: Airport Management Functional Major, B.S. Degree – 124-125 hours**

- \*AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective.
- 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 C-BASE exam. These courses are indicated on the plan in ***bold italics***.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

**Aviation Technology: Avionics Management Functional Major, B.S. Degree**

2/2007

**Avionics Area of Concentration (Area 4)**

This is the recommended program of study for the Aviation Technology: (Avionics Management) Functional Major, B.S. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective UCM students should contact the Department of Aviation for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Second Semester</b>	<b>Hrs.</b>
<b><i>ENGL 1020 Composition I</i></b>	3	<b><i>ENGL 1030 Composition II</i></b>	3
<b><i>MATH 1111 College Algebra</i></b>	3	ET 1027 AC Circuit Analysis	4
AVIA 1020 Aeronautics <b>or</b>		AVIA 2230 Aircraft Electrical Systems	3
AVIA 1310 FAA Private Ground	2-4	BTE 1210 Essentials of Managing Info. <b>or</b>	
ET 1026 DC Circuit Analysis	4	LIS 1600 Information Resources	2
GRAP 1110 Fundamentals of Drafting	3	ECON 1010 Principles of Macroeconomics	3
<b>Semester Total</b>	<b>15-17</b>	<b>Semester Total</b>	<b>15</b>
AE 1400 Freshman Seminar*			

<b>Sophomore Year - First Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs.</b>
ET 2048 Active Electrical Devices	3	<b><i>PHYS 1104 Intro. to Sciences: Physics</i></b>	4
ET 1050 Digital Principles & Applications	4	ET 2058 Operational Amps Theory & Appl.	4
<b><i>HIST 1350 or 1351 or POLS 1510</i></b>	3	ET 2060 Microprocessors: Theory & Appl.	4
General Education	6	AVIA 3260 Aircraft Radio Install & Operations	1
<b>Semester Total</b>	<b>16</b>	General Education	3
		<b>Semester Total</b>	<b>16</b>

**Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>	<b>Hrs.</b>	<b>Junior Year - Second Semester</b>	<b>Hrs.</b>
T&OE 3060 Technical Report Writing	2	AVIA 3264 Aircraft Pulse & Related Sys.	4
ET 3014 Analog Digital Circuitry	4	ET 3041 Communication Systems	3
AVIA 3262 Aircraft Comm. & Navigation Sys.	4	MATH 1131 Calculus for Business & Economics	3
AVIA 4010 Aerodynamics	3	AVIA 4040 Aviation Management	3
General Education	3	General Education	3
<b>Semester Total</b>	<b>16</b>	<b>Semester Total</b>	<b>16</b>

**Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.**

<b>Senior Year - First Semester</b>	<b>Hrs.</b>	<b>Senior Year - Second Semester</b>	<b>Hrs.</b>
MGT 3310 Principles of Management <b>or</b>		AVIA 4420 Air Transportation	3
INDM 4210 Industrial Management	3	ICAP 4113 Air Operations Management	3
AVIA 4500 Aviation Safety	3	General Education	3
AVIA 4090 Aviation Law	3	Free Choice Electives	4-6
General Education	6	<b>Semester Total</b>	<b>13-15</b>
<b>Semester Total</b>	<b>15</b>		

**Aviation Technology: Avionics Functional Major, B.S. Degree - 124 hours**

- \*AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective.
- 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 C-BASE exam. These courses are indicated on the plan in ***bold italics***.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

**Aviation Technology: Flight Operations Management Functional Major, B.S. Degree** 2/2007

**Flight Operations Management Area of Concentration (Area 6)**

This is the recommended program of study for the Aviation Technology (Flight Operations Management) Functional Major, B.S. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective UCM students should contact the Department of Aviation for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Second Semester</b>	<b>Hrs.</b>
AVIA 1020 Aeronautics <b>or</b>		AVIA 3310 FAA Commercial Flight A	1
AVIA 1310 FAA Private Requirement	2-4	AVIA 3311 FAA Commercial Flight B	1
AVIA 1320 Private Flight A	1	AVIA 3312 FAA Commercial Flight C	1
AVIA 1321 Private Flight B	1	AVIA 3325 FAA Instrument Requirement	4
<b>ENGL 1020 Composition I</b>	3	<b>MATH 1111 College Algebra</b>	3
BTE 1210 Essentials of Managing Info. <b>or</b>		ECON 1010 Principles of Macroeconomics	3
LIS 1600 Information Resources	2	<b>ENGL 1030 Composition II</b>	3
General Education	3	<b>Semester Total</b>	<b>16</b>
<b>Semester Total</b>	<b>12-14</b>		
AE 1400 Freshman Seminar*			

<b>Sophomore Year - First Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs.</b>
PR&T 3010 Transportation Systems	3	AVIA 3315 Commercial Flight D	1
AVIA 3313 Instrument Flight A	1	AVIA 3316 Commercial Flight E	1
AVIA 3314 Instrument Flight B	1	AVIA 3317 Commercial Flight F	1
AVIA 3305 FAA Commercial Requirements	3	AVIA 4350 Aviation Weather <b>or</b>	
<b>HIST 1350 or 1351 or POLS 1510</b>	3	EASC 3114 Meteorology	3
ACCT 2100 Survey of Financial Accounting	3	T&OE 3060 Technical Report Writing	2
General Education	3	BLAW 2720 Legal Environment of Business	3
<b>Semester Total</b>	<b>17</b>	<b>PHYS 1104 Intro. to Sciences: Physics</b>	4
		<b>Semester Total</b>	<b>15</b>

**Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>	<b>Hrs.</b>	<b>Junior Year - Second Semester</b>	<b>Hrs.</b>
AVIA 4010 Aerodynamics	3	AVIA 4040 Aviation Management	3
HRM 3920 Human Resource Management	3	AVIA 4500 Aviation Safety	3
MKT 3400 Principles of Marketing	3	AVIA 4320 Physiology & Flying	2
MATH 1131 Business Calculus	3	FIN 2801 Business Statistics	3
General Education	3	General Education	6
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>17</b>

**Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.**

<b>Senior Year - First Semester</b>	<b>Hrs.</b>	<b>Senior Year - Second Semester</b>	<b>Hrs.</b>
AVIA 4310 Air Traffic Control	2	FIN 3850 Principles of Finance	3
AVIA 4420 Air Transportation	3	ICAP 4113 Air Operations Management	3
AVIA 4090 Aviation Law	3	AVIA 4380 Flight Operations Management	3
MGT 3310 Principles of Management <b>or</b>		General Education	6
INDM 4210 Industrial Management	3	<b>Semester Total</b>	<b>15</b>
AVIA 4430 Corporate Aviation Management	3		
General Education	3		
<b>Semester Total</b>	<b>17</b>		

**Aviation Technology: Flight Operations Management Functional Major, B.S. Degree – 124-126 hours**

- \*AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective.
- 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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

**Aviation Technology: Professional Pilot Functional Major, B.S. Degree**

2/2007

**Professional Pilot Area of Concentration (Area 1)**

This is the recommended program of study for the Aviation Technology: (Professional Pilot) Functional Major, B.S. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective UCM students should contact the Department of Aviation for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Second Semester</b>	<b>Hrs.</b>
PR&T 1010 Power Mechanics	3	AVIA 1321 Private Flight B	1
AVIA 1310 FAA Private Requirements	4	AVIA 3313 FAA Instrument Flight A	1
AVIA 1320 Private Flight A	1	AVIA 3325 FAA Instrument Requirements	4
ET 1010 Applied Electricity	3	<b>MATH 1111 College Algebra</b>	3
<b>ENGL 1020 Composition I</b>	3	ECON 1010 Principles of Macroeconomics	3
<b>Semester Total</b>	<b>14</b>	<b>ENGL 1030 Composition II</b>	3
AE 1400 Freshman Seminar*		<b>Semester Total</b>	<b>15</b>

<b>Sophomore Year - First Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs.</b>
BTE 1210 Impact of Comp. Based Tech. <b>or</b> LIS 1600 Information Resources	2	AVIA 3340 Aircraft Systems & Computers	3
AVIA 2310 Propulsion Systems	3	AVIA 3311 Commercial Flight B	1
AVIA 3310 FAA Commercial Flight A	1	AVIA 3312 Commercial Flight C	1
AVIA 3314 Instrument Flight B	1	T&OE 3060 Technical Report Writing	2
AVIA 3305 FAA Commercial Regulations	3	<b>PHYS 1104 Intro. to Sciences: Physics</b>	4
<b>HIST 1350 or 1351 or POLS 1510</b>	3	General Education	6
General Education	3	<b>Semester Total</b>	<b>17</b>
<b>Semester Total</b>	<b>16</b>		

**Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>	<b>Hrs.</b>	<b>Junior Year - Second Semester</b>	<b>Hrs.</b>
AVIA 4010 Aerodynamics	3	AVIA 3330 Multi-Engine Certification	1
AVIA 3020 Digital Controls <b>or</b> PR&T 4032 Hydraulics/Pneumatics	3	AVIA 4040 Aviation Management	3
MATH 1131 Business Calculus	3	AVIA 4500 Aviation Safety	3
AVIA 3315 Commercial Flight D	1	AVIA 4220 Transport Aircraft Systems	2
AVIA 3316 Commercial Flight E	1	AVIA 3317 Commercial Flight F	1
EASC 3114 Meteorology <b>or</b>		Aviation Elective	3
AVIA 4350 Aviation Weather	3	General Education	3
General Education	3	<b>Semester Total</b>	<b>16</b>
<b>Semester Total</b>	<b>17</b>		

**Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.**

<b>Senior Year - First Semester</b>	<b>Hrs.</b>	<b>Senior Year - Second Semester</b>	<b>Hrs.</b>
AVIA 4370 Advanced Flight Crew Management	3	AVIA 4390 Part 135 OPS	3
AVIA 4420 Air Transportation	3	AVIA 4090 Aviation Law	3
MGT 3310 Principles of Management	3	ICAP 4113 Air Operations Management	3
General Education	6	Aviation Electives	3
<b>Semester Total</b>	<b>15</b>	General Education	3
		<b>Semester Total</b>	<b>15</b>

**Aviation Technology: Professional Pilot Functional Major, B.S. Degree - 125 hours**

- \*AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective.
- 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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.



**Aviation Technology: Systems Design Technology Functional Major, B.S. Degree**

2/2007

**Systems Design Technology Area of Concentration (Area 5)**

This is the recommended program of study for the Aviation Technology: (Systems Design Technology) Functional Major, B.S. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective UCM students should contact the Department of Aviation for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Second Semester</b>	<b>Hrs.</b>
<b>ENGL 1020 Composition I</b>	3	ET 1026 DC Circuit Analysis <b>or</b>	
<b>MATH 1111 College Algebra</b>	3	ET 1010 Applied Electricity	3-4
AVIA 1020 Aeronautics <b>or</b>		AVIA 2310 Propulsion Systems	3
AVIA 1310 FAA Private Requirements	2	CMGT 2020 Mechanics of Materials	3
PR&T 1010 Power Mechanics	4	<b>ENGL 1030 Composition II</b>	3
GRAP 1110 Fundamentals of Drafting	3	General Education	3
<b>Semester Total</b>	<b>3</b>	<b>Semester Total</b>	<b>15-16</b>
AE 1400 Freshman Seminar*	<b>14-16</b>		

<b>Sophomore Year - First Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs.</b>
MATH 1131 Calculus for Business/Economics	3	<b>PHYS 1104 Intro. to Sciences: Physics</b>	4
ECON 1010 Principles of Macroeconomics	3	AVIA 3340 Aircraft Systems & Components	3
GRAP 2170 Intro. to Computer Aided Drafting	3	GRAP 3170 Computer Drafting Systems	3
MMGT 2040 Materials Test	3	T&OE 3060 Technical Report Writing	2
<b>HIST 1350 or 1350 or POLS 1510</b>	3	General Education	3
General Education	3	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>18</b>		

**Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>	<b>Hrs.</b>	<b>Junior Year - Second Semester</b>	<b>Hrs.</b>
MGT 3310 Principles of Management <b>or</b>		AVIA 3020 Digital Control of Power Systems	3
INDM 4210 Industrial Management	3	AVIA 4040 Aviation Management	3
LIS 1600 Information Resources <b>or</b>		AVIA 4500 Aviation Safety	3
BTE 1210 Essentials of Managing Info.	2	PR&T 4032 Hydraulics & Pneumatics	3
AVIA 4220 Transportation Aircraft Systems	2	General Education	3
GRAP 4170 Computer Aided Drafting & Design	3	<b>Semester Total</b>	<b>15</b>
General Education	6		
<b>Semester Total</b>	<b>16</b>		

**Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.**

<b>Senior Year - First Semester</b>	<b>Hrs.</b>	<b>Senior Year - Second Semester</b>	<b>Hrs.</b>
AVIA 4090 Aviation Law	3	MMGT 4520 Robotics & Automation	3
AVIA 4420 Air Transportation	3	ICAP 4113 Air Operations Management	3
AVIA 4010 Aerodynamics	3	AVIA 4080 Non-Destructive Testing	3
PR&T 4038 Advanced Hydraulics	3	General Education	3
General Education	3	Free Choice Electives	1-4
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>13-17</b>

**Aviation Technology: Systems Design Technology Functional Major, B.S. Degree - 124 hours**

- \*AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective.
- 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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

**Biology Major, B.A. Degree**

2/2007

This is the recommended program of study for the Biology Major, B.A. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Biology and Earth Science for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs</b>	<b>Freshman Year -Second Semester</b>	<b>Hrs</b>
BIOL 1000 Discipline of Biology	1	BIOL 1112 Biology II w/lab	4
<b>BIOL 1111 Biology I w/lab</b>	4	<b>ENGL 1030 Composition II</b>	3
<b>ENGL 1020 Composition I</b>	3	General Education	5
General Education	3	Modern Language Requirement*	3
Modern Language Requirement*	3	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>14</b>		

<b>Sophomore Year - First Semester</b>	<b>Hrs</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs</b>
BIOL 2512 Cell Biology	3	BIOL 2020 Gen. Ecology	3
BIOL 2511 Genetics	4	<b>HIST 1350 or 1351 or POLS 1510</b>	3
<b>General Education Math</b>	3	General Education	6
General Education	3	Coursework for Minor	3
Modern Language Requirement*	3	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>16</b>		

**Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>	<b>Hrs</b>	<b>Junior Year - Second Semester</b>	<b>Hrs</b>
Upper-Level Electives in BIOL	4	Upper-Level Electives in BIOL	4
General Education	6	General Education	3
Coursework for Minor	3	Coursework for Minor	6
Free Choice Elective	3	Free Choice Elective	3
<b>Semester Total</b>	<b>16</b>	<b>Semester Total</b>	<b>16</b>

**Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.**

<b>Senior Year - First Semester</b>	<b>Hrs</b>	<b>Senior Year - Second Semester</b>	<b>Hrs</b>
BIOL 4000 Biology Colloquium	1	ICAP 4222 Biological Perspective	3
Upper-Level Electives in BIOL	4	Upper-Level Electives in BIOL	4
Coursework for Minor	6	Coursework for Minor	3
Free Choice Electives	6	Free Choice Electives	5
<b>Semester Total</b>	<b>17</b>	<b>Semester Total</b>	<b>15</b>

**Biology Major, B.A. Degree - 124 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 plan is based on a 21-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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

**Biology Major, B.S. Degree**

2/2007

This is the recommended program of study for the Biology Major, B.S. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Biology and Earth Science for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs</b>	<b>Freshman Year - Second Semester</b>	<b>Hrs</b>
BIOL 1000 Discipline of Biology	1	BIOL 1112 Biology II w/lab	4
<b>BIOL 1111 Biology I w/lab</b>	4	<b>ENGL 1020 Composition I</b>	3
<b>General Education Math</b>	3	General Education	9
General Education	6	<b>Semester Total</b>	<b>16</b>
<b>Semester Total</b>	<b>14</b>		

<b>Sophomore Year - First Semester</b>	<b>Hrs</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs</b>
BIOL 2512 Cell Biology	3	BIOL 2020 General Ecology	3
BIOL 2511 Genetics	4	<b>HIST 1350 or 1351 or POLS 1510</b>	3
<b>ENGL 1030 Composition II</b>	3	General Education	6
General Education	3	Coursework for Minor	3
Free Choice Elective	3	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>16</b>		

**Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>	<b>Hrs</b>	<b>Junior Year - Second Semester</b>	<b>Hrs</b>
Department-Approved Electives	6	Department-Approved Electives	8
General Education	6	Coursework for Minor	6
Free Choice Elective	3	Free Choice Elective	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>17</b>

**Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.**

<b>Senior Year - First Semester</b>	<b>Hrs</b>	<b>Senior Year - Second Semester</b>	<b>Hrs</b>
BIOL 4000 Biology Colloquium	1	ICAP 4222 Biological Perspective	3
Department-Approved Electives	4	Department-Approved Electives	4
Coursework for Minor	6	Coursework for Minor	6
Free Choice Elective	5	Free Choice Elective	2
<b>Semester Total</b>	<b>16</b>	<b>Semester Total</b>	<b>15</b>

**Biology Major, B.S. Degree - 124 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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- The above degree plan is based on a 21-hour minor.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

**Biology Functional Major, B.S. in Ed. Degree**

2/2007

This is the recommended program of study for the Biology Functional Major, B.S. in Ed. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Biology and Earth Science for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs</b>	<b>Freshman Year -Second Semester</b>	<b>Hrs</b>
BIOL 1000 Discipline of Biology	1	BIOL 1112 Biology II w/lab	4
<b>BIOL 1111 Biology I w/lab</b>	4	CHEM 1131 Chemistry I w/lab	5
<b>EASC 1004 Intro. to Sciences: Geology</b>	4	POLS 1510 American Government	3
<b>General Education MATH</b>	3	<b>ENGL 1030 Composition II</b>	3
<b>ENGL 1020 Composition I</b>	3	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>15</b>		

<b>Sophomore Year - First Semester</b>	<b>Hrs</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs</b>
BIOL 2512 Cell Biology	3	BIOL 2020 General Ecology	3
BIOL 2511 Genetics	4	PHYS 1101 Physics I w/lab (4) <b>or</b>	
EDCI 2100 Found. of Educ. & Field Experience	3	PHYS 1104 Intro. to Sciences: Physics (4) <b>or</b>	
EDCI 2400 Educational Psychology	3	PHYS 2121 University Physics (5)	4-5
<b>HIST 1350 or 1351 US History</b>	3	PSY 4230 Psychology of Adolescence	3
<b>Semester Total</b>	<b>16</b>	General Education	6
		<b>Semester Total</b>	<b>16-17</b>

**Take the College BASE for Teachers Exam the semester following the completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>	<b>Hrs</b>	<b>Junior Year - Second Semester</b>	<b>Hrs</b>
BIOL 3611 Microbiology w/lab	4	BIOL 3431 Animal Physiology w/lab <b>or</b>	
BIOL 3712 Field & Natural History	4	BIOL 4411 Plant Physiology w/lab	4
Major Elective*	4-5	T&OE 2000 Technology & Change	3
EDSP 2100 Education of the Exceptional Child <b>or</b>		General Education	3
PSY 4200 Psychology of Exceptional Children	2	Major Elective*	4
EDCI 4300 Educ. Measurement & Evaluation	2	EDCI 4210 Teaching Reading in Sec. Schools	2
<b>Semester Total</b>	<b>16-17</b>	<b>Semester Total</b>	<b>16</b>

**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.**

<b>Senior Year - First Semester</b>	<b>Hrs</b>	<b>Senior Year - Second Semester</b>	<b>Hrs</b>
BIOL 4810 Curriculum Dev. in Biological Sci.	2	EDCI 4595 Student Teaching Secondary I	5
BIOL 4811 Investigative Lab	2	ICAP 4468 Student Teaching Secondary II	4
EDCI 3500 Secondary Teach. & Behav. Mgt.	3	BIOL 4520 Secondary Field Experience II	3
EDCI Practicum in Secondary Instruction	1	<b>Semester Total</b>	<b>12</b>
General Education	9		
<b>Semester Total</b>	<b>17</b>		

**Biology Functional Major, B.S. in Ed. - 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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

**Biology Functional Major (Biomedical/Molecular Studies), B.S. Degree**

2/2007

This is the recommended program of study for the Biology Functional Major (Biomedical/Molecular Studies), B.S. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Biology and Earth Science for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs</b>	<b>Freshman Year -Second Semester</b>	<b>Hrs</b>
BIOL 1000 Discipline of Biology	1	BIOL 1112 Biology II	4
<b>BIOL 1111 Biology I</b>	4	PHYS 1101 College Physics I	4
<b>ENGL 1020 Composition I</b>	3	<b>ENGL 1030 Composition II</b>	3
<b>General Education Math</b>	3	General Education	3
General Education	5	<b>Semester Total</b>	<b>14</b>
<b>Semester Total</b>	<b>16</b>		

<b>Sophomore Year - First Semester</b>	<b>Hrs</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs</b>
BIOL 2512 Cell Biology	3	BIOL 2020 General Ecology	3
BIOL 2511 Genetics	4	CHEM 1132 General Chemistry II	5
CHEM 1131 General Chemistry I	5	General Education	9
<b>HIST 1350 or 1351 or POLS 1510</b>	3	<b>Semester Total</b>	<b>17</b>
<b>Semester Total</b>	<b>15</b>		

**Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>	<b>Hrs</b>	<b>Junior Year - Second Semester</b>	<b>Hrs</b>
BIOL 3611 Microbiology	4	BIOL 3431 Animal Physiology w/lab <b>or</b>	<b>4</b>
Biomedical/Molecular Studies BIOL Elective **	4	BIOL 4411 Plant Physiology w/lab	
Free Choice Electives	5	Program Core Elective*	4-5
General Education	3	General Education	6
<b>Semester Total</b>	<b>16</b>	<b>Semester Total</b>	<b>14-15</b>

**Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.**

<b>Senior Year - First Semester</b>	<b>Hrs</b>	<b>Senior Year - Second Semester</b>	<b>Hrs</b>
BIOL 4000 Biology Colloquium	1	ICAP 4222 Biological Perspective	3
Department-Approved Electives	8	Department-Approved Electives	8
Free Choice Electives	7	Free Choice Electives	4-5
<b>Semester Total</b>	<b>16</b>	<b>Semester Total</b>	<b>15-16</b>

**Biology Functional Major (Biomedical/Molecular Studies), B.S. Degree - 124 hours**

- \*Students can choose from the following: CHEM 2650, CHEM 3341 or BIOL 4414 and BIOL 4415.
- \*\*See the catalog for BIOL choices to fulfill this area.
- 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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

**Biology Functional Major (Conservation Enforcement), B.S. Degree**

2/2007

This is the recommended program of study for the Biology Functional Major (Conservation Enforcement), B.S. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Biology and Earth Science for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs</b>	<b>Freshman Year -Second Semester</b>	<b>Hrs</b>
BIOL 1000 Discipline of Biology	1	BIOL 1112 Biology II w/lab	4
<b>BIOL 1111 Biology I w/lab</b>	4	CHEM 1131 General Chemistry I w/lab	5
<b>ENGL 1020 Composition I</b>	3	<b>ENGL 1030 Composition II</b>	3
<b>General Education Math</b>	3	General Education	3
General Education	5	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>16</b>		

<b>Sophomore Year - First Semester</b>	<b>Hrs</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs</b>
BIOL 2512 Cell Biology	3	BIOL 2020 General Ecology	3
BIOL 2511 Genetics	4	CJ 1000 Introduction to Criminal Justice	3
CHEM 1132 General Chemistry II w/lab	5	COMM 1520 Elements of News Reporting <b>or</b>	
General Education	3	COMM 4415 Screenplay Writing	3
<b>Semester Total</b>	<b>15</b>	<b>HIST 1350 or 1351 or POLS 1510</b>	3
		General Education	3
		<b>Semester Total</b>	<b>15</b>

**Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>	<b>Hrs</b>	<b>Junior Year - Second Semester</b>	<b>Hrs</b>
COMM 2620 Public Relations	3	CJ 3303 Criminal Procedure	3
CJ 2300 Criminal Law	3	General Education	6
General Education	6	Department-Approved Electives	6
Program Core Electives*	4-5	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>16-17</b>		

**Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.**

<b>Senior Year - First Semester</b>	<b>Hrs</b>	<b>Senior Year - Second Semester</b>	<b>Hrs</b>
BIOL 4000 Biology Colloquium	1	ICAP 4222 Biological Perspective	3
CJ 4302 Criminal Evidence	3	Department-Approved Electives	6
Department-Approved Electives	4	Free Choice Electives	6-7
Conservation Enforcement BIOL Electives **	4	<b>Semester Total</b>	<b>15-16</b>
Free Choice Electives	4		
<b>Semester Total</b>	<b>16</b>		

**Biology Functional Major (Conservation Enforcement), B.S. Degree - 124 hours**

- \*Students can choose from the following: CHEM 2650, CHEM 3341, or BIOL 4414 and 4415.
- \*\*See the catalog for BIOL choices to fulfill this area.
- 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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

**Biology Functional Major (Ecological Studies), B.S. Degree**

2/2007

This is the recommended program of study for the Biology Functional Major (Ecological Studies), B.S. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Biology and Earth Science for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs</b>	<b>Freshman Year - Second Semester</b>	<b>Hrs</b>
BIOL 1000 Discipline of Biology	1	BIOL 1112 Biology II	4
<b>BIOL 1111 Biology I w/Lab</b>	4	<b>HIST 1350 or 1351 or POLS 1510</b>	3
<b>ENGL 1020 Composition I</b>	3	<b>General Education Math</b>	3
General Education	6	General Education	3
<b>Semester Total</b>	<b>14</b>	Free Choice Elective	3
		<b>Semester Total</b>	<b>16</b>

<b>Sophomore Year - First Semester</b>	<b>Hrs</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs</b>
BIOL 2511 Genetics	4	BIOL 2020 Gen. Ecology	3
CHEM 1131 General Chemistry I	5	CHEM 1132 General Chemistry II	5
<b>ENGL 1030 Composition II</b>	3	EASC 3010 Environmental Geology	3
General Education	3	General Education	5
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>16</b>

**Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>	<b>Hrs</b>	<b>Junior Year - Second Semester</b>	<b>Hrs</b>
BIOL 2512 Cell Biology	3	BIOL 4711 Animal Ecology	4
BIOL 3711 Plant Identification	4	Department-Approved Electives	4
Major Core Electives*	4-5	General Education	3
General Education	3	Free Choice Electives	4-5
<b>Semester Total</b>	<b>14-15</b>	<b>Semester Total</b>	<b>15-16</b>

**Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.**

<b>Senior Year - First Semester</b>	<b>Hrs</b>	<b>Senior Year - Second Semester</b>	<b>Hrs</b>
BIOL 4000 Biology Colloquium	1	ICAP 4222 Biological Perspective	3
Ecological Studies Elective**	4	Department-Approved Electives	3
Department-Approved Electives	4	GEOG 4291 Conservation of Nat. Resources	3
GEOG 4220 Geog. Information Systems I	3	General Education	3
Free Choice Electives	5	Free Choice Electives	4
<b>Semester Total</b>	<b>17</b>	<b>Semester Total</b>	<b>16</b>

**Biology Functional Major (Ecological Studies), B.S. Degree - 124 hours**

- \*Students can choose from the following: CHEM 2650, CHEM 3341, or BIOL 4414 and 4415.
- \*\*See the catalog for BIOL choices to fulfill this area.
- 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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

**Broadcast Media Major, B.S. Degree**

2/2007

This is the recommended program of study for the Broadcast Media Major, B.S. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Communication for further information or guidance.

<b>Freshman Year - First Semester</b>		<b>Hrs</b>	<b>Freshman Year - Second Semester</b>		<b>Hrs</b>
COMM 1000 Public Speaking		3	COMM 2100 Intro. to Comm. Theory		3
COMM 1100 Introduction to Communication		1	COMM 2110 Intro. to Comm. Theory Lab		1
COMM 1110 Communication Skills Lab		1	COMM 2400 Foundations of Broadcasting		3
COMM 1200 Introduction to Mass Comm.		3	<b>ENGL 1030 Composition II</b>		3
<b>ENGL 1020 Composition I</b>		3	<b>General Education MATH</b>		3
<b>General Education Science</b>		3-4	General Education		2-3
<b>Semester Total</b>		<b>14-15</b>	<b>Semester Total</b>		<b>15-16</b>

<b>Sophomore Year - First Semester</b>		<b>Hrs</b>	<b>Sophomore Year - Second Semester</b>		<b>Hrs</b>
COMM 2410 Multimedia I <b>or</b>			COMM 2410 Multimedia I <b>or</b>		
COMM 2411 Audio Production I		3	COMM 2411 Audio Production I		3
COMM 2415 Broadcast Copywriting		3	COMM 3100 – Communication Research Methods		3
Coursework in Minor		3	COMM 3110 Resource and Methods Lab		1
<b>HIST 1350 or 1351 or POLS 1510</b>		3	Coursework in Minor		3
General Education		3	General Education		6
<b>Semester Total</b>		<b>15</b>	<b>Semester Total</b>		<b>16</b>

**Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>		<b>Hrs</b>	<b>Junior Year - Second Semester</b>		<b>Hrs</b>
COMM 2412 Video Production I		5	Production Elective ***		3
COMM 3000 Film Appreciation		3	COMM 3010 Interpersonal Communication		3
COMM 3200 Practicum (or Internship)*		1	Coursework in Minor		6
Coursework in Minor		3	General Education		3
General Education		3	Free Choice Upper-Level Elective		3
<b>Semester Total</b>		<b>15</b>	<b>Semester Total</b>		<b>18</b>

**Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.**

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

<b>Senior Year-First Semester</b>		<b>Hrs</b>	<b>Senior Year - Second Semester</b>		<b>Hrs</b>
IGEN 3224 <b>or</b> 3232 <b>or</b> 4224		3	COMM 4250 Mass Communication Law		3
GEOG 3201 The Cultural Landscape		3	COMM 4490 Senior Capstone Seminar**		2
Production Elective***		3	Industry Practice & Analysis Elective***		3-5
Coursework for Minor		6	Theory & Criticism Elective***		3-5
<b>Semester Total</b>		<b>15</b>	Free Choice Upper-Level Elective		3
			<b>Semester Total</b>		<b>14-18</b>

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

- \*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 catalog for the list of Major electives to fulfill the Production, Industry Practice and Analysis, and Theory and Criticism areas.
- See the catalog or the Department of Communication for the statement of policy for admission to the Broadcast Media program.
- The above degree plan is based on a 21-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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.



**Business Teacher Education Major, B.S. in Ed. Degree, Minor Required**

2/2007

This is the recommended program of study for the Business Teacher Education Major, B. S. in Ed. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Career & Technology Education for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Second Semester</b>	<b>Hrs.</b>
<b>MATH 1111 College Algebra or</b>		COMM 1000 Public Speaking	3
<b>MATH 1620 Contemporary Math</b>	3	<b>ENGL 1030 Composition II</b>	3
BTE 1210 Essentials of Managing Information	2	ECON 1010 Principles of Macroeconomics	3
<b>ENGL 1020 Composition I</b>	3	BTE 3536 Word Processing II	3
CTE 1000 Introduction to Career & Technical Ed.	3	<b>POLS 1510 American Government</b>	3
BTE 2535 Word Processing I	3	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>14</b>		
AE 1400 Freshman Seminar*			

<b>Sophomore Year - First Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs.</b>
ACCT 2101 Principles of Financial Accounting	3	BLAW 2720 Legal Environment Business	3
BTE 4501 Business and Ed. Technology	3	FIN 1820 Personal Finance	3
EDCI 2100 Foundations of Ed. & Field Exp.	3	<b>HIST 1350 or HIST 1351 U.S. History</b>	3
EDCI 2240 Educational Psychology	3	General Education/Personal Interaction Course	3
<b>BIOL 1003 Biology or BIOL 1004</b>	3-4	General Education/Humanities/Fine Arts: Music,	
Coursework for Minor	3	Art or Theatre	3
<b>Semester Total</b>	<b>18-19</b>	General Education/Physical or Earth Science	3-4
		<b>Semester Total</b>	<b>18-19</b>

**Take the College BASE for Teachers Exam the semester following the completion of the 15 hour set of General Education courses. \*Apply for Admission to Teacher Education.**

<b>Junior Year - First Semester</b>	<b>Hrs.</b>	<b>Junior Year - Second Semester</b>	<b>Hrs.</b>
MGT 3325 Business Communication	3	INST 4330 Technology Troubleshooting for Ed.	2
EDSP 2100 Education of Exceptional Child <b>or</b>		PSY 4230 Psychology of Adolescence	3
PSY 4200 Psychology of Exceptional Child	2	EDCI 4210 Teaching of Reading in Secondary Ed.	2
MKT 3400 Principles of Marketing	3	BTE 4550 Administrative Support Management	3
Coursework for Minor	3	BTE 4510 Desktop Publishing for Business	3
General Education/Humanities Literature Elective	3	BTE 4280 Implementing Vocational Education	3
General Education/Humanities Elective	3	<b>Semester Total</b>	<b>16</b>
<b>Semester Total</b>	<b>17</b>	<b>Pass Praxis II Test for Business Education</b>	

**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.**

<b>Senior Year - First Semester</b>	<b>Hrs.</b>	<b>Senior Year - Second Semester</b>	<b>Hrs.</b>
EDCI 4300 Education Measurement & Evaluation	2	EDCI 4595 Student Teaching I	5
EDCI 3500 Behavioral Management	3	ICAP 4468 Student Teaching II	4
EDCI 3550 Practicum in Secondary Instruction	1	BTE 4220 Secondary Field Experience II	1
BTE 4210 Methods of Teaching Business Ed.	3	BTE 4230 Methods of Teaching Business-General	2
General Education/Cultural Interaction Course	3	Coursework for Minor	3
Coursework for Minor	6	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>18</b>		

**Business Teacher Education 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.
- \*For Admission to Teacher Education, a student must have a minimum of 48 credit hours earned (at least six at UCM); have passed the C-BASE general education test; and have a cumulative GPA no less than 2.5. See current course catalog for other specific requirements for admission the Teacher Education.
- \*\*The above plan is based 18-25 hours in a minor. See current catalog for additional required coursework.
- **Recommended Electives:** ACCT 2102 Principles of Managerial Accounting, BLAW 3721 Law of Business Transactions, BTE 4560 Info. Design and Presentation, FIN 1820 Personal Finance, INST 4330 Technology Troubleshooting for Educators. This listing shows planned changes in the program to reflect new state certification requirements. Course substitutions will be made in CTE 1000 to bring the current catalog program in line with these changes.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

**Business Education Functional Major, B.S. in Ed. Degree, No Minor Required**

2/2007

This is the recommended program of study for the Business Education Functional Major, B.S. in Ed. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Career & Technology Education for further information or guidance.

<b>Freshman Year - First Semester</b>		<b>Hrs.</b>	<b>Freshman Year - Second Semester</b>		<b>Hrs.</b>
<b>MATH 1111 College Algebra or</b>			COMM 1000 Public Speaking **		3
<b>MATH 1620 Contemporary Math **</b>		3	<b>ENGL 1030 Composition II</b>		3
BTE 1210 Essentials of Managing Information**		2	ECON 1010 Principles of Macroeconomics		3
<b>ENGL 1020 Composition I **</b>		3	BTE 3536 Word Processing II		3
CTE 1000 Introduction to Career & Technical Ed.*		3	<b>POLS 1510 American Government</b>		3
BTE 2535 Word Processing I		3	<b>Semester Total</b>		<b>15</b>
<b>Semester Total</b>		<b>14</b>			
AE 1400 Freshman Seminar (see below)					

<b>Sophomore Year - First Semester</b>		<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>		<b>Hrs.</b>
ACCT 2101 Principles of Financial Accounting		3	BLAW 2720 Legal Environment of Business		3
BTE 4501 Business & Education Technology		3	FIN 1820 Personal Finance		3
EDCI 2100 Found. of Ed. & Field Experience **		3	<b>HIST 1350 or 1351 US History</b>		3
EDCI 2240 Educational Psychology **		3	Humanities-Literature <b>or</b> Humanities/Fine Arts:		
<b>BIOL 1004 Biology (or BIOL 1003)</b>		3-4	Music, Art or Theatre <b>or</b> Physical or Earth		
<b>Semester Total</b>		<b>15-16</b>	Science <b>or</b> Cultural Interaction		6-7
			<b>Semester Total</b>		<b>15</b>

**Take the College BASE for Teachers Exam the semester following the completion of the 15 hour set of General Education courses. \*Apply for Admission to Teacher Education.**

<b>Junior Year - First Semester</b>		<b>Hrs.</b>	<b>Junior Year - Second Semester</b>		<b>Hrs.</b>
MGT 3325 Business Communication		3	INST 4330 Technology Troubleshooting for Ed.		2
EDSP 2100 Educ. of the Exceptional Child <b>or</b>			PSY 4230 Psychology of Adolescence		3
PSY 4200 Psychology of Exceptional Children		2	EDCI 4210 Teaching of Read. in Secondary Ed.		2
MKT 3400 Principles of Marketing		3	BTE 4550 Administrative Support Management		3
BTE 4560 Information Design & Presentation		3	BTE 4501 Desktop Publishing for Business		3
Humanities-Literature <b>or</b> Humanities/Fine Arts:			Cultural Interaction <b>or</b> Humanities Elective		3
Music, Art or Theatre <b>or</b> General Education			<b>Semester Total</b>		<b>16</b>
Science <b>or</b> Cultural Interaction		6			
<b>Semester Total</b>		<b>17</b>	<b>Pass Praxis II Test for Business Education</b>		

**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.**

<b>Senior Year - First Semester</b>		<b>Hrs.</b>	<b>Senior Year - Second Semester</b>		<b>Hrs.</b>
EDCI 4300 Educational Measures & Evaluation		2	EDCI 4595 Student Teaching I		5
EDCI 3500 Behavioral Management		3	ICAP 4468 Student Teaching II		4
EDCI 3550 Practicum in Secondary Instruction		1	BTE 4220 Secondary Field Experience II		1
BTE 4210 Methods of Teaching Business Ed.		3	BTE 4230 Methods of Teaching Business - General		2
BTE 4280 Implementing Vocational Ed. ***		3	<b>Semester Total</b>		<b>12</b>
Electives		6			
<b>Semester Total</b>		<b>18</b>			

**Business Education Functional 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.
- 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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- \*For admission to teacher education, a student must have a minimum of 48 credit hours earned ( at least six at Central); have passed the C-BASE general education test; and have a cumulative GPA no less than 2.5. See current catalog for other specific requirements for admission to Teacher Education.
- \*\*C required.
- This listing shows planned changes in the program to reflect new state certification requirements. Course substitutions will be made for CTE 1000 to bring the current catalog program in line with these changes. See the current catalog for General Education Requirements and for a complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

**Chemistry Major, B.A. Degree**

2/2007

This is the recommended program of study for the Chemistry Major, B.A. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Chemistry and Physics for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Second Semester</b>	<b>Hrs.</b>
<b><i>ENGL 1020 Composition I</i></b>	3	<b><i>ENGL 1030 Composition II</i></b>	3
<b><i>CHEM 1131 General Chemistry I</i></b>	5	CHEM 1132 General Chemistry II	5
Modern Language Requirement**	3	Modern Language Requirement**	3
<b><i>MATH 1151 Calculus &amp; Analytic Geometry I</i></b>	5	General Education	6
<b>Semester Total</b>	<b>16</b>	<b>Semester Total</b>	<b>17</b>
AE 1400 Freshman Seminar*			

<b>Sophomore Year - First Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs.</b>
<b><i>HIST 1350 or 1351 or POLS 1510</i></b>	3	CHEM 3342 Organic Chemistry II	4
CHEM 3341 Organic Chemistry I	4	CHEM 3212 Quantitative Analysis****	3
Coursework in Minor	3	General Education	9
Modern Language Requirement**	3	<b>Semester Total</b>	<b>16</b>
General Education	3		
<b>Semester Total</b>	<b>16</b>		

**Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>	<b>Hrs.</b>	<b>Junior Year - Second Semester</b>	<b>Hrs.</b>
CHEM 3111 Intermediate Inorganic Chemistry***	4	CHEM 3500 Elements of Physical Chemistry	4
Coursework in Minor	3	CHEM 3920 Communication Skills in Chemistry	2
Free Choice Electives	4	Coursework in Minor	6
General Education	3	General Education	3
<b>Semester Total</b>	<b>14</b>	<b>Semester Total</b>	<b>15</b>

**Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.**

<b>Senior Year - First Semester</b>	<b>Hrs.</b>	<b>Senior Year - Second Semester</b>	<b>Hrs.</b>
CHEM 4421 Biochemistry	4	CHEM Elective	3-4
General Education	3	Coursework in Minor	3
Coursework in Minor	6	Free Choice Electives	8-9
Free Choice Electives	3	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>15</b>		

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

- \*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 two modern language courses and ENGL 2220 for General Education Literature.
- \*\*\*CHEM 3111 offered odd fall semesters (2007, 2009, etc.) and should be taken accordingly.
- \*\*\*\*CHEM 3212 is also offered during odd summers (2007, 2009, etc.).
- CHEM 4111 is offered even-numbered years and CHEM 4313 odd-numbered years.
- 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 C-BASE exam. These courses are indicated on the plan in ***bold italics***.
- This plan is based on a 21-hour minor.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

## Chemistry Functional Major, B.S. Degree

2/2007

This is the recommended program of study for the Chemistry Functional Major, B.S. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Chemistry and Physics for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Second Semester</b>	<b>Hrs.</b>
<b><i>ENGL 1020 Composition I</i></b>	3	<b><i>ENGL 1030 Composition II</i></b>	3
<b><i>CHEM 1131 General Chemistry I</i></b>	5	MATH 1152 Calculus & Analytical Geometry II	5
<b><i>MATH 1151 Calculus &amp; Analytical Geometry I</i></b>	5	CHEM 1132 General Chemistry II	5
PHYS 1101* or General Education	3-4	PHYS 1102 or PHYS 2121 University Physics I*	4-5
<b>Semester Total</b>	<b>16-17</b>	<b>Semester Total</b>	<b>17-18</b>
AE 1400 Freshman Seminar**			

<b>Sophomore Year - First Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs.</b>
<b><i>HIST 1350 or 1351 or POLS 1510</i></b>	3	CHEM 3342 Organic Chemistry II	4
CHEM 3341 Organic Chemistry I	4	CHEM 3212 Quantitative Analysis****	3
PHYS 2122 University Physics II or Elective	5	General Education	9
General Education	3	<b>Semester Total</b>	<b>16</b>
<b>Semester Total</b>	<b>15</b>		

Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.

<b>Junior Year - First Semester</b>	<b>Hrs.</b>	<b>Junior Year - Second Semester</b>	<b>Hrs.</b>
CHEM 3111 Intermediate Inorganic Chemistry***	4	CHEM 4231 Instrumental Analysis***	4
General Education	9	CHEM 3920 Communication Skills in Chemistry	2
Free Choice Elective	3	General Education	5
<b>Semester Total</b>	<b>16</b>	Free Choice Electives	4
		<b>Semester Total</b>	<b>15</b>

Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.

<b>Senior Year - First Semester</b>	<b>Hrs.</b>	<b>Senior Year - Second Semester</b>	<b>Hrs.</b>
CHEM 4421 Biochemistry	4	CHEM 4910 Research in Chemistry	2
CHEM 4910 Research in Chemistry	2	CHEM 4532 Physical Chemistry II***	4
CHEM 4531 Physical Chemistry I***	4	Free Choice Electives	9
General Education	3	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>13</b>		

## Chemistry Functional Major, B.S. Degree - 124 hours

- \*Students whose high school preparation is inadequate should take PHYS 1101 during their first year at Central Missouri. The department highly recommends PHYS 2121.
- \*\*AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective.
- \*\*\*Alternate-year courses: 5th semester begin 3111 (odd falls) or 4531 (even falls); 6th semester take 4231 (offered even springs) (4111 also offered as an elective) or 4532 (offered odd springs) (4313 also offered as an elective).
- \*\*\*\*CHEM 3212 is also offered during odd summers (2007, 2009, etc.)
- For ACS-CPT-approved degree take either CHEM 4111 or CHEM 4313.
- 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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

## Chemistry Functional Major, B.S. in Ed. Degree

2/2007

This is the recommended program of study for the Chemistry Functional Major, B.S. in Ed. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Chemistry and Physics for further information or guidance.

Freshman Year - First Semester		Freshman Year - Second Semester	
CHEM 1131 General Chemistry I	5	CHEM 1132 General Chemistry II	5
BIOL 1111 Biology I	4	<b>BIOL 1005 Intro. to Environ. Sciences</b>	3
<b>ENGL 1020 Composition I</b>	3	<b>ENGL 1030 Composition II</b>	3
T&OE 2000 Technology & Change	3	<b>HIST 1350 or 1351 US History</b>	3
<b>Semester Total</b>	<b>15</b>	COMM 1000 Public Speaking	3
AE 1400 Freshman Seminar*		<b>Semester Total</b>	<b>17</b>

Sophomore Year - First Semester		Sophomore Year - Second Semester	
CHEM 3341 Organic Chemistry I	4	PHYS 1101 or PHYS 2121	4-5
<b>MATH 1150 or MATH 1151</b>	4-5	CHEM 3212 Quantitative Analysis***	3
EDCI 2100 Found. of Ed. & Field Experience	3	<b>EASC 1004 Intro to the Sciences: Geology</b>	4
EDCI 2240 Educational Psychology	3	EDSP 2100 Exceptional Child or PSY 4200	2
General Education	3	POLS 1510 American Government	3
<b>Semester Total</b>	<b>17-18</b>	<b>Semester Total</b>	<b>16-17</b>

**Take the College BASE for Teachers Exam the semester following the completion of the 15 hour set of General Education courses.**

Junior Year - First Semester		Junior Year - Second Semester	
CHEM 3111 Intermediate Inorganic Chemistry**	4	CHEM 3500 Elements of Physical Chemistry	4
Major Elective****	3-4	CHEM 4900 Chemical Research for Teachers	1-2
PSY 4230 Psychology of Adolescence	3	EDCI 4210 Teaching of Reading in Sec. Schools	2
General Education	6	Major Elective****	3-4
<b>Semester Total</b>	<b>16-17</b>	General Education	6
		<b>Semester Total</b>	<b>16-18</b>

**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.**

Senior Year - First Semester		Senior Year - Second Semester	
CHEM 4421 Biochemistry**	4	CHEM 4011 Methods of Teaching Physical Sci.	3
Major Elective****	3-4	EDCI 4595 Student Teaching Secondary I	5
EDCI 3500 Sec. Teaching & Behavioral Mgt.	3	ICAP 4468 Student Teaching Secondary II	4
EDCI 3550 Practicum in Sec. Instruction	1	<b>Semester Total</b>	<b>12</b>
EDCI 4300 Educ. Measurement & Evaluation	2		
<b>Semester Total</b>	<b>13-14</b>		

## Chemistry Functional 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.
- \*\*CHEM 3111 is offered during odd falls (2007, 2009, etc.) and should be taken accordingly.
- \*\*\*CHEM 3212 is also offered during odd summers (2007, 2009, etc.)
- \*\*\*\*See catalog for major electives and 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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.
- Students should apply to the teacher education program after completing EdCI 2100.

**Child & Family Development Major, Child Development Area, B.S. Degree**

2/2007

This is the recommended program of study for the Child and Family Development Functional Major, B.S. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Curriculum and Instruction for information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Second Semester</b>	<b>Hrs.</b>
<b><i>ENGL 1020 Composition I</i></b>	3	<b><i>ENGL 1030 Composition II</i></b>	3
<b><i>General Education Math</i></b>	3	<b><i>General Education Science</i></b>	3-4
CFD 1010 Individual & Family Relationships	3	CFD 1220 Child Development	3
PSY 1100 General Psychology	3	EDCI 2110 World Diversity & America	3
AE 1450 Valuing Differences	1	SOC 1800 General Sociology	3
<b>Semester Total</b>	<b>13</b>	<b>Semester Total</b>	<b>15-16</b>
AE 1400 Freshman Seminar*			

<b>Sophomore Year - First Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs.</b>
<b><i>HIST 1350 or 1351 U.S. History**</i></b>	3	EDCI 2310 Computer Techology in Education	2
CFD 1230 Observation of Children	2	CD 2000 Bases of Speech & Language	2
CFD 2230 Practicum in Child Development	1	ART 3910 Art for Elementary	2
EDCI 2850 Dev. & Learning Through Play	3	PE 2410 Mov. Skills & Activ. for Primary Grades	2
D&N 2310 Early Childhood Nutrition & Health	2	General Education	6-7
General Education	3	SOC 2805 Intro. to Social Research	3
<b>Semester Total</b>	<b>14</b>	<b>Semester Total</b>	<b>17-18</b>

**Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>	<b>Hrs.</b>	<b>Junior Year - Second Semester</b>	<b>Hrs.</b>
CFD 2240 Field Exp. in Early Childhood	3	CFD 3240 Parent-Child Interaction	3
EDSP 2100 Ed. of the Exceptional Child	2	EDSP 3150 Community & Family Resources	2
CFD 3230 Family Systems & Life Span Develop.	3	EDCI 3410 Children's Literature	2
FACS 2110 Consumer Problems	3	MUS 3301 Music for Elementary Schools	2
General Education	3	General Education	3
Free Choice Electives	3	Free Choice Electives	3
<b>Semester Total</b>	<b>17</b>	<b>Semester Total</b>	<b>15</b>

<b>Summer Semester</b>	<b>Hrs.</b>	<b>Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.</b>
CFD 4710 Internship***	3-6	
<b>Semester Total</b>	<b>3-6</b>	

<b>Senior Year - First Semester</b>	<b>Hrs.</b>	<b>Senior Year - Second Semester</b>	<b>Hrs.</b>
CFD 3222 Early Childhood	3	CFD 4745 Senior Seminar	3
CFD 3250 Org. & Admin. of Prog. for Child.	3	CFD 4250 Spec. Prob. in Family & Ind. Dev.	3
CFD 4250 Spec. Prob. in Family & Ind. Dev.	3	Free Choice Electives****	10
General Education	3	<b>Semester Total</b>	<b>16</b>
Free Choice Electives****	3		
<b>Semester Total</b>	<b>15</b>		

**Child & Family Development Functional Major, Child Development Area, B.S. Degree - 124 hrs**

- \*AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective.
- \*\*In addition to the Social Science requirement, students must also fulfill Missouri Legislative requirement and HIST prefix requirements. Since the Cultural Interaction requirement is specified in this major, students are encouraged to select HIST 1350 or 1351 in Social Sciences.
- \*\*\*Internship is to be completed during the summer semester before the Senior year.
- \*\*\*\*Students will need to select a certain number of 3000-4000 level free electives in order to reach the minimum 40 hours required for a degree.
- A minimum 15-hour block of General Education in Math, Written Communication, History or Political Science, and Science must be completed in the first four semesters (60 hours) to take the C-BASE exam for General Education Assessment. These courses are designated in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

**Child & Family Development Functional Major, Family Development Area, B.S. Degree 2/2007**

This is the recommended program of study for the Child and Family Development Functional Major, Family Development Area, B.S. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Curriculum and Instruction for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Second Semester</b>	<b>Hrs.</b>
<b>ENGL 1020 Composition I</b>	3	<b>ENGL 1030 Composition II</b>	3
<b>Select one GE Div. I C - Math. Reasoning</b>	3	<b>Select one GE Div. II A-1 - Life or Phys. Sci.</b>	3-4
CFD 1010 Individual & Family Relations	3	CFD 1220 Child Development	3
PSY 1100 General Psychology	3	EDCI 2110 World Diversity & America	3
AE 1450 Valuing Differences	1	SOC 1800 General Sociology	3
AE 1400 Freshman Seminar*	1	<b>Semester Total</b>	<b>15-16</b>
<b>Semester Total</b>	<b>14</b>		

<b>Sophomore Year - First Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs.</b>
<b>HIST 1350 or 1351 U.S. History**</b>	3	EDCI 2310 Computer Tech. in Education	2
CFD 1230 Observation of Children	2	Select Two Free Choice Electives	5
<b>Select One GE Div. II A-1 - Life or Phys. Sci.</b>	3-4	SOC 2805 Introduction to Social Research	3
D&N 2310 Early Childhood Nut. & Health	2	<b>Select One GE Div. II C - Humanities/Fine Arts</b>	3
<b>Select One GE Div. I Oral Communication</b>	3	CFD 3260 Practicum in Child Development	1
Departmental Elective	3	EDCI 3850 Develop. & Learning Through Play	3
<b>Semester Total</b>	<b>16-17</b>	<b>Semester Total</b>	<b>17</b>

**Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>	<b>Hrs.</b>	<b>Junior Year - Second Semester</b>	<b>Hrs.</b>
CFD 2240 Field Experience	3	CFD 3240 Parent-Child Interaction	3
EDSP 2100 Ed. of the Exceptional Child	2	EDSP 3150 Community & Family Resources	2
CFD 3230 Family Systems & Life Span Dev.	3	EDSP 3151 Community & Family Resources Lab	1
FACS 2120 Consumer Problems	3	Select One Free Choice Electives	2
<b>Select One GE Div. II A-2 - Technology</b>	2-3	Select One Free Choice Electives	2
<b>Select One GE Div. II C - Humanities/Fine Arts</b>	3	<b>Select One GE Div. II C - Human./Fine Arts</b>	3
<b>Semester Total</b>	<b>16-17</b>	<b>Semester Total</b>	<b>13</b>

<b>Summer Semester before Senior Year</b>	<b>Hrs.</b>	<b>Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.</b>
CFD 4710 Internship***	3-6	
<b>Semester Total</b>	<b>3-6</b>	

<b>Senior Year - First Semester</b>	<b>Hrs.</b>	<b>Senior Year - Second Semester</b>	<b>Hrs.</b>
CFD 3222 Early Childhood	3	CFD 4745 Senior Seminar	3
CFD 3250 Org. & Adm. of Prog. for Young Child	3	CFD 4250 Spec. Topics in Child & Family Dev.	3
CFD 4250 Spec. Prob. in Family & Ind. Dev.	3	Select One Department Elective	3
<b>Select One GE Div. IV - Integrative Studies</b>	3	Select One Department Elective	3
Select One Department Elective	3	Select One Free Choice Elective ****	2
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>14</b>

**Child & Family Development Functional Major, Family Development Area, B.S. Degree - 124 hours**

- \*AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective.
- \*\*In addition to the Social Science requirement, students must also fulfill Missouri Legislative requirement and HIST prefix requirements. Since the Cultural Interaction requirement is specified in this major, students are encouraged to select HIST 1350 or 1351 in Social Sciences.
- \*\*\*Internship is to be completed during the summer semester before the Senior year.
- \*\*\*\*Students will need to select a certain number of 3000-4000 level free electives in order to reach the minimum 40 hours required for a degree.
- A minimum 15-hour block of General Education in Math, Written Communication, History or Political Science, and Science must be completed in the first four semesters (60 hours) to take the C-BASE exam for General Education Assessment. These courses are designated in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

**Commercial Art Functional Major (Graphic Design Option), B.F.A. Degree**

2/2007

This is the recommended program of study for the Commercial Art Functional Major (Graphic Design Option), B.F.A. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Art for further information and guidance on prerequisites and required course sequence in your area of emphasis.

<b>Freshman Year - First Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Second Semester</b>	<b>Hrs.</b>
ART 1110 Drawing I	3	ART 1120 Drawing II	3
ART 1315 Design I	3	ART 1325 Design II	3
ART 1800 Ideas & the Visual Arts	3	ART 2511 Painting I	3
<b>ENGL 1020 Composition I</b>	3	GRAP 1010 Intro. to Desktop Publishing & Printing	3
<b>General Education Math</b>	3	<b>ENGL 1030 Composition II</b>	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>
AE 1400 Freshman Seminar*			

<b>Sophomore Year - First Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs.</b>
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) <b>or</b>		<b>General Education Science</b>	3-4
ART 1835 Survey of Non-West Art (spring)	3	General Education	5-6
<b>HIST 1350 or 1351 or POLS 1510</b>	3	<b>Semester Total</b>	<b>18</b>
<b>Semester Total</b>	<b>15</b>		

**Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>	<b>Hrs.</b>	<b>Junior Year - Second Semester</b>	<b>Hrs.</b>
Required Course From Area of Emphasis	3	ART 4850 20th Century Art & Architect. (fall) <b>or</b>	
ART 2412 Ceramics I <b>or</b>		ART 4860 Contemp. Art & Design (spring)	3
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	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>18</b>		

**Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.**

<b>Senior Year - First Semester</b>	<b>Hrs.</b>	<b>Senior Year - Second Semester</b>	<b>Hrs.</b>
Required Course From Area of Emphasis	3	ART 4020 Studio Seminar	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
<b>Semester Total</b>	<b>18</b>	<b>Semester Total</b>	<b>15</b>

**Commercial Art Major (Graphic Design Option), B.F.A. Degree - 129 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.
- 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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.



**Commercial Art Functional Major (Illustration Option), B.F.A. Degree**

2/2007

This is the recommended program of study for the Commercial Art Functional Major (Illustration Option), B.F.A. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Art for further information and guidance on prerequisites and required course sequence in your area of emphasis.

<b>Freshman Year - First Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Second Semester</b>	<b>Hrs.</b>
ART 1110 Drawing I	3	ART 1120 Drawing II	3
ART 1315 Design I	3	ART 1325 Design II	3
ART 1800 Ideas & the Visual Arts	3	Elective From Area of Emphasis	3
<b>ENGL 1020 Composition I</b>	3	<b>ENGL 1030 Composition II</b>	3
<b>General Education Math</b>	3	General Education	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>
AE 1400 Freshman Seminar*			

<b>Sophomore Year - First Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs.</b>
ART 2335 Design III	3	ART 2511 Painting I	3
Required Course From Area of Emphasis	3	Required Course From Area of Emphasis	3
ART 2610 Introduction to Commercial Art	3	ART 2710 Introduction to Printmaking	3
ART 1815 Art History Survey I (fall ) <b>or</b>		ART 1825 Art History Survey II	3
ART 1835 Survey of Non-West Art (spring)	3	<b>General Education science</b>	3
<b>HIST 1350 or 1351 or POLS 1510</b>	3	General Education	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>18</b>

**Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>	<b>Hrs.</b>	<b>Junior Year - Second Semester</b>	<b>Hrs.</b>
Required Courses in Area of Emphasis	9	Required Course From Area of Emphasis	3
ART 4850 20th Century Art and Arch. (fall) <b>or</b>		ART 3510 Watercolor	3
ART 4860 Contemp. Art & Design (spring)	3	ART 2412 Ceramics <b>or</b>	
General Education	3	ART 2420 Sculpture	3
<b>Semester Total</b>	<b>15</b>	General Education	6
		<b>Semester Total</b>	<b>15</b>

**Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.**

<b>Senior Year - First Semester</b>	<b>Hrs.</b>	<b>Senior Year - Second Semester</b>	<b>Hrs.</b>
Required Course From Area of Emphasis	3	Required Course From Area of Emphasis	3
Electives From Area of Emphasis	6	ART 4020 Studio Seminar	3
Art Elective	3	Elective From Area of Emphasis	3
General Education	6	ICAP 4221 Artists in Contemporary Society	3
<b>Semester Total</b>	<b>18</b>	General Education	6
		<b>Semester Total</b>	<b>18</b>

**Commercial Art Functional Major (Illustration Option), B.F.A. Degree - 129 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.
- 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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

## Communication Major, B.A. Degree

2/2007

This is the recommended program of study for the Communication Major, B.A. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Communication for further information or guidance.

<b>Freshman Year – First Semester</b>	<b>Hrs</b>	<b>Freshman Year - Second Semester</b>	<b>Hrs</b>
<b><i>ENGL 1020 Composition I</i></b>	3	<b><i>ENGL 1030 Composition II</i></b>	3
COMM 1000 Public Speaking	3	<b><i>General Education Math</i></b>	3
COMM 1100 Introduction to Communication	1	COMM 2100 Intro. to Communication Theory	3
COMM 1110 Communication Skills Lab	1	COMM 2110 Intro. to Comm. Theory Lab	1
COMM 1200 Intro. to Mass Communication	3	General Education	3
Modern Language Requirement*	3	Modern Language Requirement*	3
<b>Semester Total</b>	<b>14</b>	<b>Semester Total</b>	<b>16</b>
<b>Sophomore Year – First Semester</b>	<b>Hrs</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs</b>
<b><i>General Education Science</i></b>	3-4	COMM 3100 Comm. Research Methods	3
<b><i>HIST 1350 or HIST 1351 or POLS 1510</i></b>	3	COMM 3110 Resource and Methods Lab	1
COMM 2325 Improving Listening Skills	3	General Education	5
COMM 1000-2000-level Elective from:		ANTH 1820 or GEOG 3201 or WS 2000	3
Production, Survey, <b>or</b> Classical	3	COMM 3000-Level Elective from: Criticism,	
Coursework in Minor	3	Production, Survey, <b>or</b> Relational	2-3
Modern Language Requirement*	3	<b>Semester Total</b>	<b>14-15</b>
<b>Semester Total</b>	<b>18</b>		

**Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.**

<b>Junior Year – First Semester</b>	<b>Hrs</b>	<b>Junior Year - Second Semester</b>	<b>Hrs</b>
COMM 3000 Film Appreciation	3	COMM 3010 Interpersonal Communication	3
COMM 2000-4000-Level Elective from:		COMM 3327 Improving Interviewing Skills	3
Criticism, Relational, <b>or</b> Classical	3	Dept.-Approved Upper-Level Elective in COMM	3
COMM 3000-4000-level Elective from:		Coursework in Minor	6
Criticism, Production, Survey, Relational,		General Education	3
<b>or</b> Classical	2-3	<b>Semester Total</b>	<b>18</b>
COMM 3200 <b>or</b> COMM 3390	1		
Coursework in Minor	3		
General Education	3		
<b>Semester Total</b>	<b>15-16</b>		

**Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.**

<b>Senior Year – First Semester</b>	<b>Hrs</b>	<b>Senior Year – Second Semester</b>	<b>Hrs</b>
IGEN 4224 or 3232 or 3224	3	COMM 3000-4000-Level Elective from:	
COMM 4335 Gender Communication	3	Criticism, Production, Survey, Relational,	
COMM 4350 Contemp. Public Communication	2	<b>or</b> Classical	2-3
Coursework in Minor	6	Dept.-Approved Upper-Level Elective in COMM	3
<b>Semester Total</b>	<b>14</b>	Coursework in Minor	3
		Upper-Level Free Choice Electives	5
		<b>Semester Total</b>	<b>13-14</b>

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

- \*Refer to the Bachelor's Degree Requirements section for fulfillment options of the B.A. Modern Language requirements. This plan is based on nine hours of modern language.
- This plan is based on a 21-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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

**Computer-Aided Drafting & Design Technology Functional Major, B.S. Degree**

2/2006

This is the recommended program of study for the Computer-Aided Drafting & Design Technology Functional Major, B.S. Degree at University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Graphic Imaging & Design Technology for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Second Semester</b>	<b>Hrs.</b>
GRAP 1100 Orientation of Drafting (Fall only)	1	GRAP 2170 Intro. Computer-Aided Drafting	3
GRAP 1110 Fundamentals of Drafting	3	GRAP 1120 Machine Drafting	3
General Education	6	<b>ENGL 1030 Composition II</b>	3
<b>ENGL 1020 Composition I</b>	3	<b>General Education Science non-lab</b>	
<b>MATH 1111 College Algebra</b>	3	<b>(Chem 1103, Biol 1003 or 1005)</b>	3
<b>Semester Total</b>	<b>16</b>	General Education	3
		<b>Semester Total</b>	<b>15</b>

<b>Sophomore Year - First Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs.</b>
GRAP 2130 Technical Illustration	3	GRAP 2160 Structural Drafting	3
GRAP 2150 Descr. Geometry for Eng. Tech.	3	CMGT 2020 Mechanics of Materials	3
<b>HIST 1350 or 1351 or POLS 1510</b>	3	General Education	9
General Education	6	<b>Semester Total</b>	<b>15</b>
Math 1112 College Trigonometry	2		
<b>Semester Total</b>	<b>17</b>		

**Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>	<b>Hrs.</b>	<b>Junior Year - Second Semester</b>	<b>Hrs.</b>
GRAP 3150 Civil Drafting	3	GRAP 3175 Managing Comp. Apps. For Draft.	3
GRAP 3170 Computer Drafting Systems	3	Electives for Major*	6
PHYS 1104 Intro. to Sciences: Physics	4	MGT 3310 Principles of Management <b>or</b>	
IGEN 3116 Creative Problem Solving	3	INDM 4210 Industrial Management**	3
General Education	3	Free Choice Elective*	3
<b>Semester Total</b>	<b>16</b>	<b>Semester Total</b>	<b>15</b>

**Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.**

<b>Senior Year - First Semester</b>	<b>Hrs.</b>	<b>Senior Year - Second Semester</b>	<b>Hrs.</b>
GRAP 4170 Computer-Aided Drafting Design	3	MMGT 2530 Machine Tool Technology	3
Elective for Major*	3	Electives for Major*	6
T&OE 3060 Technical Report Writing	2	GRAP 4180 Industrial Design	3
Free Choice Electives*	6	HRM 3920 Human Resource Management <b>or</b>	
General Education	3	INDM 4260 Organizational Dynamics**	3
<b>Semester Total</b>	<b>17</b>	Free Choice Elective*	1
		<b>Semester Total</b>	<b>16</b>

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

- \*Forty hours of upper-level credit must be earned to meet graduation requirements. Of the 26 hours of major electives and free choice electives, at least 14 must be upper-level coursework.
- \*\*Students either take MGT 3310 and HRM 3920 OR INDM 4210 and INDM 4260.
- Summer Courses: GRAP 1110, GRAP 3160, IGEN 3116, GRAP 4500, General Education courses
- Required electives from major - 15 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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

**Computer Information Systems Functional Major, B.S.B.A. Degree**

2/2007

This is the recommended program of study for the Computer Information Systems Functional Major, B.S.B.A. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Computer Information Systems for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Second Semester</b>	<b>Hrs.</b>
<b>MATH 1111 College Algebra*</b>	3	CIS 1605 Business Application Software	2
PSY 1100 General Psychology <b>or</b>		ECON 1010 Principles of Macroeconomics*	3
SOC 1800 General Sociology	3	<b>ENGL 1030 Composition II</b>	3
BTE 1210 Essentials of Managing Info.*	2	COMM 1000 Public Speaking	3
<b>ENGL 1020 Composition I</b>	3	General Education	6
General Education	3	<b>Semester Total</b>	<b>17</b>
<b>Semester Total</b>	<b>14</b>		
AE 1400 Freshman Seminar**			

<b>Sophomore Year - First Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs.</b>
ACCT 2101 Principles of Financial Accounting*	3	ACCT 2102 Principles of Managerial Accounting*	3
ECON 1011 Principles of Microeconomics*	3	BLAW 2720 Legal Environment of Business*	3
CIS 2605 Visual Basic	3	FIN 2801 Business Statistics I*	3
<b>General Education Science (w/Lab)</b>	4	CIS 2615 Introduction to JAVA	3
<b>HIST 1350 or 1351 or POLS 1510</b>	3	General Education	3
<b>Semester Total</b>	<b>16</b>	<b>Semester Total</b>	<b>15</b>

**Note: Complete all B.S.B.A. Admission requirements, take C-BASE, and apply for admission\***

**Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>	<b>Hrs.</b>	<b>Junior Year - Second Semester</b>	<b>Hrs.</b>
CIS 2665 Prin. of Data Comm. and LAN	3	MKT 3405 Marketing Policy	3
MGT 3315 Management of Organizations	3	CIS 3650 Database Management Systems	3
FIN 3801 Business Statistics II	3	MGT 3325 Business Communications	3
CIS 3630 Management Information Systems	3	CIS Concentration Course	3
General Education	3	CIS 3660 Analysis and Design	3
<b>Semester Total</b>	<b>15</b>	CIS Elective	3
		<b>Semester Total</b>	<b>18</b>

**Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.**

<b>Senior Year - First Semester</b>	<b>Hrs.</b>	<b>Senior Year - Second Semester</b>	<b>Hrs.</b>
CIS Concentration Course	3	CIS 4690 Systems Architecture and Development	3
FIN 3850 Principles of Finance	3	(Spring only)	
MGT 3360 Production/Operations MGT	3	ICAP 4357 Organization Policy and Strategy	3
CIS Elective	2	CIS Electives	6
General Education	3	CIS Concentration Course	3
<b>Semester Total</b>	<b>14</b>	<b>Semester Total</b>	<b>15</b>

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

- A minimum 15-hour block of General Education in Math, Written Communication, History or Political Science, and Science must be completed in the first three semesters (45 hours) to take the College BASE exam for General Education Assessment. These courses are designated in **bold italics**. Passing of the C-BASE exam is required for admission to the B.S.B.A. program.
- 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 1400 (1 hr.) is highly recommended for academic success. AE 1400 counts as a free choice, non-business elective.
- A 2.25 GPA on all coursework is required for graduation in this major.
- See current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

**Computer Science Functional Major, B.S. Degree**

2/2007

This is the recommended program of study for the Computer Science Functional Major, B.S. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Mathematics and Computer Science for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Second Semester</b>	<b>Hrs.</b>
<b>MATH 1151 Calculus &amp; Analytic Geom. I</b>	5	CS 1110 Computer Programming II	3
CS 1100 Computer Programming I	3	CS 2400 Discrete Structures II	3
CS 1400 Discrete Structures I	3	Elective in Track	3
General Education/Free Choice Electives	3	General Education/Free Choice Electives	7
<b>Semester Total</b>	<b>14</b>	<b>Semester Total</b>	<b>16</b>

<b>Sophomore Year - First Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs.</b>
CS 2300 Data Structures*	3	CS 3100 Programming Languages**	3
MATH 3311 Intro. to Mathematical Statistics*	3	CS 2200 Intro. to Computer Organization**	3
Elective in Track	3	Elective in Track	3
General Education/Free Choice Electives	7	General Education/Free Choice Electives	6
<b>Semester Total</b>	<b>16</b>	<b>Semester Total</b>	<b>15</b>

**Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>	<b>Hrs.</b>	<b>Junior Year - Second Semester</b>	<b>Hrs.</b>
CS 3200 Computer Architecture*	3	CS 4500 Operating Systems**	3
CS 4300 Algorithm Design & Analysis*	3	CS 4910 Software Engineering**	3
Elective in Track	3	Elective in Track	3-4
General Education/Free Choice Electives	6	General Education/Free Choice Electives	6
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15-16</b>

**Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.**

<b>Senior Year - First Semester</b>	<b>Hrs.</b>	<b>Senior Year - Second Semester</b>	<b>Hrs.</b>
CS 4600 Database Theory and Apps.*	3	ICAP 4245 – Computer Science Capstone Exp.**	3
CS 4900 Compiler*	3	Approved Elective in Track	3-4
Approved Elective in Track	3-4	General Education/Free Choice Electives	9
General Education/Free Choice Electives	6	<b>Semester Total</b>	<b>15-16</b>
<b>Semester Total</b>	<b>15-16</b>		

**Computer Science Functional Major, B.S. Degree - 124 hours**

- \*Fall-only course.
- \*\*Spring-only course.
- 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 C-BASE exam. These courses are indicated on the plan in ***bold italics***.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

**Construction Management Functional Major, B.S. Degree**

1/2006

This is the recommended program of study for the Construction Management Functional Major, B.S. Degree at University of Central Missouri. Your schedule may vary. Current or prospective UCM students should contact the Department of Industrial Technology for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Second Semester</b>	<b>Hrs.</b>
CMGT 1300 Intro. to Construction Mgmt.	2	CMGT 1301 Seminar	.5
CMGT 1301 Seminar	.5	CMGT 2310 Construction Techniques	3
GRAP 1110 Fundamentals of Drafting	3	MATH 1112 Trigonometry	2
<b>MATH 1111 College Algebra</b>	3	BTE 1210 Essentials Of Managing Info.	2
<b>EASC 1004 Intro. to Science: Geology</b>	4	PHYS 1103 Physics	3
<b>ENGL 1020 Composition I</b>	3	<b>ENGL 1030 Composition II</b>	3
<b>Semester Total</b>	<b>15.5</b>	General Education	3
AE 1400 Freshman Seminar*		<b>Semester Total</b>	<b>16.5</b>

<b>Sophomore Year - First Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs.</b>
CMGT 1301 Seminar	.5	CMGT 1301 Seminar	.5
CMGT 2020 Mechanics of Material	3	MMGT 2040 Engineering Material Science	4
CMGT 2325 Project Cost Estimating	3	GRAP 3160 Arch. Drawing <b>or</b> GRAP 3150 Civil	
CMGT 2340 Surveying & Construction Layout	3	Drafting <b>or</b> GRAP 2160 Structural Drafting	3
MATH 1131 Calculus for Business & Economics	3	ECON 1010 Principles of Macroeconomics	3
ACCT 2101 Principles of Financial Accounting	3	<b>HIST 1350 or 1350 or POLS 1510</b>	3
<b>Semester Total</b>	<b>15.5</b>	EASC 2100 Engineering Geology	4
		<b>Semester Total</b>	<b>17.5</b>

**Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>	<b>Hrs.</b>	<b>Junior Year - Second Semester</b>	<b>Hrs.</b>
MGT 3310 Principles of Management	3	CMGT 3320 Principles of Construction Mgmt.	3
FIN 2801 Statistics for Business	3	CMGT 4380 Heavy Equipment	3
CMGT 3355 Scheduling for Mfg. & Construction	3	CMGT 3020 Applied Strength of Materials	3
CMGT 3330 Building Codes & Code Adm.	3	ACCT 2102 Principles of Managerial Acct. <b>or</b>	
General Education	3	MKT 3400 Principles of Marketing <b>or</b>	
<b>Semester Total</b>	<b>15</b>	BLAW 2720 Legal Environment of Business	3
		General Education	6
		<b>Semester Total</b>	<b>18</b>

<b>Summer – Between Junior &amp; Senior Year</b>	<b>Hrs.</b>	<b>Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.</b>
T&OE 3022 Internship in Technology**	1	
<b>Semester Total</b>	<b>1</b>	

<b>Senior Year - First Semester</b>	<b>Hrs.</b>	<b>Senior Year - Second Semester</b>	<b>Hrs.</b>
CMGT 3350 Building Structures	3	CMGT 4310 Construction Safety	3
HRM 3920 Human Resource Management	3	CMGT 4330 Mechanical Systems for Buildings	3
INDM 4210 Industrial Management	3	CMGT 4355 Project Control	3
General Education	9	INDM 4260 Organizational Dynamics	3
<b>Semester Total</b>	<b>18</b>	ICAP 4109 Construction Operations	3
		<b>Semester Total</b>	<b>15</b>

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

- \*\*AE 1400 (1 hr.) is highly recommended for academic success. AE 1400 counts as a free choice, non-business elective.
- \*\*T&OE 3022 Internship in Technology should be done during the summer of junior/senior year.
- General education courses (18 semester hours total) required by the Construction Management Program are incorporated into the above plan. 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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

**Cooperative Engineering 3-2, B.A. Degree**

2/2007

This is the recommended program of study for the Cooperative Engineering 3-2, B.A. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Physics for further information or guidance.

<b>Freshman Year - First Semester*</b>	<b>Hrs</b>	<b>Freshman Year -Second Semester</b>	<b>Hrs</b>
<b><i>CHEM 1131 General Chem. I</i></b>	5	PHYS 2121 University Physics I	5
<b><i>MATH 1151 Calculus &amp; Analytic Geom. I</i></b>	5	CHEM 1132 General Chemistry II	5
<b><i>ENGL 1020 Composition I</i></b>	3	MATH 1152 Calculus & Analytic Geom. II	5
General Education	3	General Education	2
<b>Semester Total</b>	<b>16</b>	<b>Semester Total</b>	<b>17</b>
AE 1400 Freshman Seminar**			

<b>Sophomore Year - First Semester</b>	<b>Hrs</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs</b>
PHYS 2122 University Physics II	5	PHYS 4212 Analytical Mechanics II	3
PHYS 3211 Analytical Mechanics I	2	COMM 1000 Public Speaking	3
<b><i>ENGL 1030 Composition II</i></b>	3	ECON 1010 Principles of Macroeconomics	3
MATH 2153 Calculus & Analytical Geometry III	3	<b><i>HIST 1350 or 1351 or POLS 1510</i></b>	3
GRAP 1110 Fundamentals of Drafting	3	General Education	3
<b>Semester Total</b>	<b>16</b>	Modern Languages requirement ***	3
		<b>Semester Total</b>	<b>18</b>

**Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>	<b>Hrs</b>	<b>Junior Year - Second Semester</b>	<b>Hrs</b>
CS 1100 Introduction to Computing I	3	PHYS 3012 Electric Measurements Lab	2
ECON 1011 Principles of Microeconomics	3	PHYS 3311 Electric Circuit Theory	3
General Education	6	MATH 3151 Differential Equations	3
Modern Languages Requirement ***	3	PHYS 4411 Thermodynamics	3
<b>Semester Total</b>	<b>15</b>	General Education	6
		<b>Semester Total</b>	<b>17</b>

**Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.**

**Cooperative Engineering 3-2, B.A. Degree – 96 hours**

- \*Students whose high school preparation is inadequate should take PHYS 1101 during their first year at UCM.
- \*\*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 2 modern language courses and ENGL 2220 for General Education Literature.
- University of Central Missouri, through the Department of Chemistry and Physics, offers a Cooperative Engineering 3-2 program in cooperation with the University of Missouri-Rolla, the University of Missouri-Columbia, and the University of Kansas. This program leads to a B.S. in Engineering from the cooperating institution and a B.A. degree in Physics from UCM. Any student electing to enter the five-year program must apply for a degree audit at the close of the sophomore year indicating, upon application, plans to complete the cooperative plan at another institution and name the institution. For details, consult the Chair of the Chemistry and Physics Department. For the first three years, students should complete the above program.
- **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, we will process your physics degree certificate.
- 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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

## Corporate Communication Major, B.S. Degree

2/2007

This is the recommended program of study for the Corporate Communication Major, B.S. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Communication for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs.</b>	<b>Freshman Year -Second Semester</b>	<b>Hrs.</b>
<b><i>ENGL 1020 Composition I</i></b>	3	<b><i>ENGL 1030 Composition II</i></b>	3
COMM 1000 Public Speaking	3	<b><i>General Education Math</i></b>	3
COMM 1100 Introduction to Communication	1	COMM 2330 Small Group Communication	3
COMM 1110 Communication Skills Lab	1	COMM 2380 Introduction to Organizational Com.	3
General Education	6	General Education	3
<b>Semester Total</b>	<b>14</b>	<b>Semester Total</b>	<b>15</b>

<b>Sophomore Year - First Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs.</b>
<b><i>HIST 1350 or 1351 or POLS 1510</i></b>	3	<b><i>General Education Science</i></b>	3-4
COMM 2100 Introduction Communication Theory	3	COMM 2620 Public Relations	3
COMM 2110 Introduction Comm. Theory Lab	1	COMM 3327 Improving Interview Skills	3
COMM 2325 Improving Listening Skills	3	ANTH 1820 or GEOG 3201 or WS 2000	3
Coursework in Minor	3	Free Choice Electives	4
General Education	3	<b>Semester Total</b>	<b>16</b>
<b>Semester Total</b>	<b>16</b>		

**Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>	<b>Hrs.</b>	<b>Junior Year - Second Semester</b>	<b>Hrs.</b>
COMM 3100 Com. Research Methods	3	COMM 3010 Interpersonal Communication	3
COMM 3110 Resources & Methods Lab	1	COMM 3730 Communication Conflict Management	3
Coursework in Minor	6	COMM 4780 Advanced Theories of Org. Com.	3
General Education	6	Coursework in Minor	3
<b>Semester Total</b>	<b>16</b>	General Education	3
		<b>Semester Total</b>	<b>15</b>

**Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.**

<b>Summer - Between Junior/Senior Year</b>	<b>Hrs.</b>
COMM 4785 Internship	3-6
<b>Semester Total</b>	<b>3-6</b>

<b>Senior Year - First Semester</b>	<b>Hrs.</b>	<b>Senior Year - Second Semester</b>	<b>Hrs.</b>
COMM 3350 Principles of Presentational Speaking	3	COMM 4783 Communication Training	3
COMM 4475 New Media Technologies	2	Coursework in Minor	6
IGEN 3224 or 3232 or 4224	3	Upper-Level Elective	5
Coursework in Minor	3	<b>Semester Total</b>	<b>14</b>
Upper-Level Elective	3		
Free Choice Elective	2		
<b>Semester Total</b>	<b>16</b>		

## Corporate Communication Major, B.S. Degree - 1 24 hours

- 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.
- 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 C-BASE exam. These courses are indicated on the plan in ***bold italics***.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.



**Criminal Justice Major, B.S. Degree**

2/2007

This is the recommended program of study for the Criminal Justice Major, B.S. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective UCM students should contact the Department of Criminal Justice for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Second Semester</b>	<b>Hrs.</b>
CJ 1000 Introduction to Criminal Justice	3	CJ 3006 Corrections	3
<b>ENGL 1020 Composition I</b>	3	CJ 3010 Policing a Democratic Society	3
<b>General Education Math</b>	3	<b>ENGL 1030 Composition II</b>	3
General Education	6	<b>General Education Science</b>	3-4
<b>Semester Total</b>	<b>15</b>	General Education	3
AE 1400 Freshman Seminar*		<b>Semester Total</b>	<b>15-16</b>

<b>Sophomore Year - First Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs.</b>
CJ 2300 Criminal Law	3	CJ 2700 Introduction to Juvenile Justice	3
Criminal Justice Elective	3	CJ 3303 Criminal Procedure	3
<b>HIST 1350 or 1351 or POLS 1510</b>	3	Coursework in Minor	3
General Education	6	General Education	6
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>

**Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>	<b>Hrs.</b>	<b>Junior Year - Second Semester</b>	<b>Hrs.</b>
SOC 3890 Criminology	3	Criminal Justice Elective	3
Criminal Justice Elective	3	Coursework in Minor	3
Coursework in Minor	6	General Education	6
General Education	6	Free Choice Elective	3
<b>Semester Total</b>	<b>18</b>	<b>Semester Total</b>	<b>15</b>

**Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.**

<b>Senior Year - First Semester</b>	<b>Hrs.</b>	<b>Senior Year - Second Semester</b>	<b>Hrs.</b>
CJ 3600 Introduction to Criminal Justice Research	3	CJ 4605 Senior Seminar	3
Criminal Justice Elective	3	Criminal Justice Elective	6
Coursework in Minor	6	Coursework in Minor	3
Free Choice Elective	3	Free Choice Electives	4
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>16</b>

**Criminal Justice Major, B.S. Degree - 124 hours**

- \*AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective.
- Above degree plan is based on a 21 hour minor.
- A minimum 15-hour block of General Education in Math, Written Communication, History or Political Science, and Science must be completed in the first four semesters (60 hours) to take the C-BASE exam for General Education Assessment. These courses are designated in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

## Crisis and Disaster Management, B. S. Degree

2/2007

This is the recommended program of study for the Crisis and Disaster Management Bachelor of Science Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Safety Sciences for further information or guidance.

<b>Freshman Year</b> - First Semester	<b>Hrs.</b>	<b>Freshman Year</b> - Second Semester	<b>Hrs.</b>
<b>ENGL 1020 Composition I</b>	3	SAFE 3000 Principles of Accident Causation	3
General Education	10	<b>ENGL 1030 Composition II</b>	3
<b>Semester Total</b>	<b>13</b>	General Education	9
AE 1400 Freshman Seminar*		<b>Semester Total</b>	<b>15</b>

<b>Sophomore Year</b> - First Semester	<b>Hrs.</b>	<b>Sophomore Year</b> - Second Semester	<b>Hrs.</b>
SAFE 3300 Intro. to Crisis & Disaster Management	3	SAFE 3120 Intro. to Industrial Hygiene	3
SAFE 3015 <b>or</b> 3325 <b>or</b> 3375 – Technical Option: Emergency Preparedness, Hazardous Materials Emerg. Response, Business Continuity Planning	3	Coursework in Minor***	6
<b>HIST 1350 or 1351 U.S. History</b>	3	<b>MATH 1111 College Algebra</b>	3
<b>CHM 1104 Intro. to Sciences: Chemistry</b>	4	General Education	3
Coursework in Minor***	3	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>16</b>		

Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.

<b>Junior Year</b> - First Semester	<b>Hrs.</b>	<b>Junior Year</b> - Second Semester	<b>Hrs.</b>
SAFE 3340 Community Mitigation & Recovery	3	SAFE 4320 Disaster Management Technology	3
Communication Elective	3	SAFE 3335 <b>or</b> 4215 <b>or</b> 4720 – Technical Option: Emerg. Response, Trans. & Storage of Haz. Materials, Personnel & Information Security	3
Coursework in Minor***	3	Coursework in Minor***	3
SAFE 4960 Field Exercises Project	3	General Education	5
General Education	4	<b>Semester Total</b>	<b>14</b>
<b>Semester Total</b>	<b>16</b>		

Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.

<b>Summer</b> - Between Junior & Senior Year	<b>Hrs.</b>
SAFE 4950 Technology Application Studies**	3
SAFE 4980 Practicum in CDM**	3
<b>Semester Total</b>	<b>6</b>

<b>Senior Year</b> - First Semester	<b>Hrs.</b>	<b>Senior Year</b> - Second Semester	<b>Hrs.</b>
SAFE 4920 Research Issues in C&DM	3	SAFE 4380 Integrated Emergency Management	3
IGEN Course	3	SAFE 4335 <b>or</b> 4345 <b>or</b> 4365 – Technical Option: Disaster & Society, Managerial Issues in Hazardous Materials, Crisis Management	3
SAFE Technical Elective	3	Coursework in Minor***	3
Coursework in Minor***	3	Free Choice Elective	4
Free Choice Electives***	4	<b>Semester Total</b>	<b>13</b>
<b>Semester Total</b>	<b>16</b>		

## Crisis and Disaster Management, B.S. Degree – 124 hrs

- \*AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective.
- \*\*SAFE 4950 and SAFE 4960 can be taken any semester after sophomore year.
- \*\*\*This plan is based on an 18-hour minor. The number of free choice electives will depend on the hours required in the chosen major.
- SAFE 4980 is a practicum in CDM that can be taken for 3-6 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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

**Dietetics Functional Major, B.S. Degree**

2/2007

This is the recommended program of study for the Dietetics Functional Major, B.S. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Health and Human Performance for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Second Semester</b>	<b>Hrs.</b>
D&N 1300 Introduction to Dietetics	1	<b><i>CHEM 1104 Intro. to Sciences: Chemistry</i></b>	4
PSY 1100 General Psychology	3	SOC 1800 General Sociology	3
<b><i>ENGL 1020 Composition I</i></b>	3	General Education	3
General Education	9	<b><i>General Education Math</i></b>	3
<b>Semester Total</b>	<b>16</b>	<b><i>ENGL 1030 Composition II</i></b>	3
AE 1400 Freshman Seminar*		<b>Semester Total</b>	<b>16</b>

<b>Sophomore Year - First Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs.</b>
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
<b><i>HIST 1350 or 1351 or POLS 1510</i></b>	3	Free Choice Electives	3
General Education	3	<b>Semester Total</b>	<b>16</b>
<b>Semester Total</b>	<b>16</b>		

**Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>	<b>Hrs.</b>	<b>Junior Year - Second Semester</b>	<b>Hrs.</b>
FOOD 3332 Quantity Food Prod. & Service	3	FOOD 3334 Food Service Equip. & Purchasing	3
FOOD 3333 Food Systems Management	3	CHEM 2650 Elementary Organic & Biochem.	5
BIOL 3611 Microbiology	4	HRM 3920 Human Resource Management	3
MGT 3310 Principles of Management	3	Free Choice Electives	4
Free Choice Electives	3	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>16</b>		

**Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.**

<b>Senior Year - First Semester</b>	<b>Hrs.</b>	<b>Senior Year - Second Semester</b>	<b>Hrs.</b>
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 Stats. for the Behavioral Sciences	3	<b>Semester Total</b>	<b>14</b>
<b>Semester Total</b>	<b>15</b>		

**Dietetics Functional Major, B.S. Degree - 124 hours**

- \*AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective.
- A minimum 15-hour block of General Education in Math, Written Communication, History or Political Science, and Science must be completed in the first four semesters (60 hours) to take the C-BASE exam for General Education Assessment. These courses are indicated in the plan in ***bold italics***.
- Registration as a dietitian requires internship beyond BS degree. Fulfills the "Dietetic Program in Dietetics Academic Requirements" of the American Dietetic Association.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

## Earth Science Major, B.A. Degree

2/2007

This is the recommended program of study for the Earth Science Major, B.A. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Biology and Earth Science for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs.</b>	<b>Freshman Year -Second Semester</b>	<b>Hrs.</b>
<b><i>ENGL 1020 Composition I</i></b>	3	<b><i>ENGL 1030 Composition II</i></b>	3
<b><i>EASC 1004 Introduction to Science-Geology</i></b>	4	<b><i>General Education Math</i></b>	3
General Education	3	EASC 2200 Historical Geology	4
Modern Language Requirement**	3	General Education	3
<b>Semester Total</b>	<b>13</b>	Modern Language Requirement**	3
AE 1400 Freshman Seminar*		<b>Semester Total</b>	<b>16</b>

<b>Sophomore Year - First Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs.</b>
<b><i>HIST 1350 or 1351 or POLS 1510</i></b>	3	EASC 3110 Structural Geology	4
EASC 3010 Environmental Geology	3	General Education	9
General Education	5	Coursework in Minor	3
Modern Language Requirement**	3	<b>Semester Total</b>	<b>16</b>
<b>Semester Total</b>	<b>14</b>		

Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.

<b>Junior Year - First Semester</b>	<b>Hrs.</b>	<b>Junior Year - Second Semester</b>	<b>Hrs.</b>
EASC Elective	3	EASC 3320 or EASC 4301	4
Coursework in Minor	6	EASC Elective	4
General Education	3	Coursework in Minor	6
Free Choice Elective	4	General Education	3
<b>Semester Total</b>	<b>16</b>	<b>Semester Total</b>	<b>17</b>

Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.

<b>Senior Year - First Semester</b>	<b>Hrs.</b>	<b>Senior Year - Second Semester</b>	<b>Hrs.</b>
EASC 3501 Invertebrate Paleontology	4	EASC Electives	6
GEOG 4210 or GEOG 4220 or AGRI 2330	3	Coursework in Minor	3
General Education	3	Free Choice Electives	7
Coursework in Minor	3	<b>Semester Total</b>	<b>16</b>
Free Choice Electives	3		
<b>Semester Total</b>	<b>16</b>		

## 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 plan is based on a 21-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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

**Earth Science Functional Major, B.S. in Ed. Degree**

2/2007

This is the recommended program of study for the Earth Science Functional Major, B.S. in Ed. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Biology and Earth Science for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs</b>	<b>Freshman Year -Second Semester</b>	<b>Hrs</b>
<b><i>BIOL 1004 Intro. to Science: Ecology</i></b>	4	EASC 2200 Historical Geology	4
<b><i>EASC 1004 Intro. to Science: Geology</i></b>	4	CHEM 1131 Chemistry I w/lab	5
General Education	5	<b><i>General Education Math</i></b>	3
<b><i>ENGL 1020 Composition I</i></b>	3	<b><i>ENGL 1030 Composition II</i></b>	3
<b>Semester Total</b>	<b>16</b>	<b>Semester Total</b>	<b>15</b>
AE 1400 Freshman Seminar *			

<b>Sophomore Year - First Semester</b>	<b>Hrs</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs</b>
BIOL 1111 Biology I	4	PHYS 1101 Physics I w/lab <b>or</b>	4-5
EASC 3320 Mineralogy <b>or</b>		PHYS 1104 Intro. to Science: Physics** <b>or</b>	
EASC 4301 Minerals & Rocks	4	PHYS 2121 University Physics**	
EDCI 2100 Foundations of Ed. and Field Exp.	3	<b><i>POLS 1510 American Government</i></b>	3
EDCI 2240 Educational Psychology	3	General Education	6
T&OE 2000 Technology & Change	3	<b><i>HIST 1350 or HIST 1351 U.S. History</i></b>	3
<b>Semester Total</b>	<b>17</b>	<b>Semester Total</b>	<b>16-17</b>

**Take the College BASE for Teachers Exam the semester following the completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>	<b>Hrs</b>	<b>Junior Year - Second Semester</b>	<b>Hrs</b>
EASC 3010 Environment Geology	3	EASC 3111 Geomorphology	3
Major Elective**	5	PSY 42 30 Psychology of Adolescence	3
EASC 3112 Astronomy	3	EDCI 4210 Teaching Reading in Secondary	2
EDSP 2100 Education of Exceptional Child <b>or</b>		EDCI 4300 Ed. Measurement & Evaluation	2
PSY 4200 Psychology of Exceptional Child	2	Major Elective**	3-4
General Education	3	General Education	3
<b>Semester Total</b>	<b>16</b>	<b>Semester Total</b>	<b>16-17</b>

**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.**

<b>Senior Year - First Semester</b>	<b>Hrs</b>	<b>Senior Year - Second Semester</b>	<b>Hrs</b>
EASC 3501 Invert Paleontology	4	BIOL 4520 Secondary Field Experience II	1
EASC 3114 Meteorology	3	BIOL 4794 Methods of Teaching Science	2
EDCI 3500 Sec. Teaching & Behavioral Mgt.	3	EDCI 4595 Student Teaching Secondary I	5
EDCI 3550 Practicum in Secondary Instruction	1	ICAP 4468 Student Teaching Secondary II	4
Major Electives	4	<b>Semester Total</b>	<b>12</b>
<b>Semester Total</b>	<b>15</b>		

**Earth Science Functional 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.
- \*\*Please 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 C-BASE exam. These courses are indicated on the plan in ***bold italics***.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

**Economics Major, B.A. Degree**

2/2007

This is the recommended program of study for the Economics Major, B.A. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Economics and Finance for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Second Semester</b>	<b>Hrs.</b>
<b>MATH 1111 College Algebra</b>	3	ECON 1011 Principles of Microeconomics	3
ECON 1010 Principles of Macroeconomics	3	<b>POLS 1510 American Government</b>	3
<b>ENGL 1020 Composition I</b>	3	<b>ENGL 1030 Composition II</b>	3
General Education	6	General Education	6
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>
AE 1400 Freshman Seminar*			

<b>Sophomore Year - First Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs.</b>
ECON 2010 Orientation to Econ. (Fall only)	2	Modern Language Requirement**	3
Modern Language Requirement**	3	Free Choice Elective	3
Coursework for Minor	3	Coursework for Minor	3
<b>General Education Science w/lab</b>	4	General Education	6
General Education	5-6	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>17</b>		

**Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>	<b>Hrs.</b>	<b>Junior Year - Second Semester</b>	<b>Hrs.</b>
ECON 3010 Intermediate Macroeconomics	3	ECON 3030 Intermediate Microeconomics	3
Modern Language requirement**	3	Major Electives***	6
Free Choice Elective	3	Coursework for Minor	6
Major Electives***	3	<b>Semester Total</b>	<b>15</b>
Coursework for Minor	3		
<b>Semester Total</b>	<b>15</b>		

**Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.**

<b>Senior Year - First Semester</b>	<b>Hrs.</b>	<b>Senior Year - Second Semester</b>	<b>Hrs.</b>
ECON 4000 Portfolio Assessment (Fall only)	1	Major Electives***	6
Free Choice Elective	3	Coursework for Minor	3
Major Electives***	6	Free Choice Electives	4
Coursework for Minor	6	General Education (IGEN or ICAP)	3
<b>Semester Total</b>	<b>16</b>	<b>Semester Total</b>	<b>16</b>

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

- \*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 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.
- A minimum 15-hour block of General Education in Math, Written Communication, History or Political Science, and Science must be completed in the first three semesters (45 hours) to take the C-BASE exam for General Education Assessment. These courses are designated in **bold italics**.
- POLS 1510 (American Government) is required for the major and fulfills the Missouri Constitution requirement. Students must also choose a history prefix course in Div. II Area B (HIST 1350 or 1351) or Area D (HIST 2402 or 2410).
- This degree program is based on a 24-hour minor. Number of free choice electives will vary with minor choice.
- See current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

**Economics Major, B.S. Degree**

2/2007

This is the recommended program of study for the Economics Major, B.S. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Economics and Finance for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Second Semester</b>	<b>Hrs.</b>
ECON 1010 Principles of Macroeconomics	3	ECON 1011 Principles of Microeconomics	3
<b>ENGL 1020 Composition I</b>	3	COMM 1000 Public Speaking	3
<b>MATH 1111 College Algebra</b>	3	<b>POLS 1510 American Government</b>	3
General Education	6	<b>ENGL 1030 Composition II</b>	2
<b>Semester Total</b>	<b>15</b>	BTE 1210 Essentials of Managing Information*	3
AE 1400 Freshman Seminar*		General Education	3
		<b>Semester Total</b>	<b>17</b>

<b>Sophomore Year - First Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs.</b>
ECON 2010 Orientation to Economics (Fall only)	2	FIN 2801 Business Statistics I	3
<b>General Education Science (w/lab)</b>	4	General Education	3
General Education	9	Coursework for Minor	6
CIS 1605 Business Application Software	2	Free Choice Elective	3
<b>Semester Total</b>	<b>17</b>	<b>Semester Total</b>	<b>15</b>

**Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>	<b>Hrs.</b>	<b>Junior Year - Second Semester</b>	<b>Hrs.</b>
ECON 3010 Intermed. Macroeconomics (Fall only)	3	ECON 3030 Intermediate Microeconomics	3
ECON 3065 Labor Economics (Fall only)	3	MGT 3360 Production/Operations Management	3
FIN 3801 Business Statistics II	3	Coursework for Minor	6
Coursework for Minor	6	ECON Elective	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>

**Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.**

<b>Senior Year - First Semester</b>	<b>Hrs.</b>	<b>Senior Year - Second Semester</b>	<b>Hrs.</b>
ECON 4000 Portfolio Assessment	1	General Education (IGEN)	3
ECON 4080 Econometrics I (Fall only)	3	ECON 4060 Game Theory Appl. (Spring only)	3
Coursework for Minor	6	ECON 4065 Managerial Economics (Spring only)	3
Free Choice Electives	5	ECON 4075 Time Series Analysis (Spring only)	3
<b>Semester Total</b>	<b>15</b>	Free Choice Elective	3
		<b>Semester Total</b>	<b>15</b>

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

- \*AE 1400 (1 hr.) is highly recommended for academic success. AE 1400 is 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.
- A minimum 15-hour block of General Education in Math, Written Communication, History or Political Science, and Science must be completed in the first three semesters (45 hours) in order to take the C-BASE exam for General Education Assessment. These courses are designated in **bold italics**.
- POLS 1510 (American Government) is required for this major and fulfills the Missouri Constitution requirement. Students must also choose a history prefix course in Div. II Area B (HIST 1350 or 1351) or Area D (HIST 2402 or 2410).
- The above degree program is based on a 24-hour minor. Number of free choice electives will vary with minor choice.
- See current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

**Electronics Engineering Technology Functional Major, B.S. Degree**

2/2007

This is the recommended program of study for the Electronics Engineering Technology Functional Major, B.S. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective UCM students should contact the Department of Industrial Technology for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Second Semester</b>	<b>Hrs.</b>
ET 1026 DC Circuit Analysis*	4	ET 1027 AC Circuit Analysis*	4
ET 1050 Digital Principles & Applications*	4	ET 2048 Active Electronic Devices*	4
<b>MATH 1111 College Algebra</b>	3	PHYS 1101 College Physics I	4
MMGT 2500 Applied Computer Technology**	2	T&OE 1042 Technical Mathematics II*	3
<b>ENGL 1020 Composition I</b>	3	<b>ENGL 1030 Composition II</b>	3
<b>Semester Total</b>	<b>16</b>	<b>Semester Total</b>	<b>18</b>
AE 1400 Freshman Seminar***			

<b>Sophomore Year - First Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs.</b>
ET 2058 Operational Amplifiers*	4	ET 2065 Comp. Prog. for Elect. Technology*	4
ET 2060 Microprocessors**	4	EET 2300 Calculus for Elect. Eng. Technology*	3
PHYS 1102 College Physics II**	4	EET2320 Advanced Digital Circuitry*	3
T&OE 2040 Calculus for Technology	3	<b>CHEM 1104 Intro. to Sciences: Chemistry</b>	4
<b>Semester Total</b>	<b>15</b>	<b>HIST 1350 or 1351 or POLS 1510</b>	3
		<b>Semester Total</b>	<b>17</b>

**Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>	<b>Hrs.</b>	<b>Junior Year - Second Semester</b>	<b>Hrs.</b>
EET 2330 Transform Analysis*	3	EET 3330 Intro. to Communication Systems*	3
EET 3310 Microprocessor Systems Design*	3	EET 3340 Control Systems Design*	3
EET 3320 Introduction to Data Communications*	3	ECON 1010 Principles of Macroeconomics	3
T&OE 3060 Technical Report Writing**	2	General Education	6
COMM 1000 Public Speaking	3	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>14</b>		

**Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.**

<b>Senior Year - First Semester</b>	<b>Hrs.</b>	<b>Senior Year - Second Semester</b>	<b>Hrs.</b>
EET 4310 Fuzzy Logic Systems Design*	3	EET 4330 Dig. Signal Processing Sys. Design*	3
EET 4320 Advanced Control Systems Design*	3	EET 4340 Neural Network Systems Design*	3
General Education	9	General Education	9
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>

**Electronics Engineering Technology Functional Major, B.S. Degree - 124 hours**

- \*Course ONLY available semester indicated.
- \*\*Course(s) may be available summer semesters.
- \*\*\*AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective
- 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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.



### Electronics Technology Functional Major, B.S. Degree

2/2007

#### Electrical/Electronic Communication Technology Area

This is the recommended program of study for the Electronics Technology Functional Major, B.S. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective UCM students should contact the Department of Industrial Technology for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Second Semester</b>	<b>Hrs.</b>
ET 1026 DC Circuit Analysis*	4	ET 1027 AC Circuit Analysis*	4
ET 1050 Digital Principles & Applications*	4	ET 2048 Active Electronic Devices*	4
<b><i>MATH 1111 College Algebra</i></b>	3	T&OE 1042 Technical Mathematics II	3
<b><i>ENGL 1020 Composition I</i></b>	3	<b><i>ENGL 1030 Composition II</i></b>	3
General Education	2	General Education	3
<b>Semester Total</b>	<b>16</b>	<b>Semester Total</b>	<b>14-17</b>
AE 1400 Freshman Seminar**			

<b>Sophomore Year - First Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs.</b>
ET 2060 Microprocessors***	4	ET 2065 Computer Prog. for Electronic Tech.*	4
ET 3020 Circuit Analy. and Implement.	4	ET 3014 Analog-Digital Circuitry	4
T&OE 2040 Calculus for Technology	3	<b><i>PHYS 1104 Intro. to the Sciences: Physics</i></b>	4
<b><i>CHEM 1104 Intro. to Sciences: Chemistry</i></b>	4	COMM 1000 Public Speaking	3
General Education	0-3	General Education	0-3
<b>Semester Total</b>	<b>15-18</b>	<b>Semester Total</b>	<b>15-18</b>

Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.

<b>Junior Year - First Semester</b>	<b>Hrs.</b>	<b>Junior Year - Second Semester</b>	<b>Hrs.</b>
T&OE 3060 Technical Report Writing***	2	ECON 1010 Principles of Macroeconomics	3
ET 3041 Communication Systems	4	General Education	0-8
MGT 3310 Principles of Management <b>or</b>		Management Elective***	3
INDM 4210 Industrial Management	3	Department Approved Upper-Level Elective***	3-8
ET 3017 Industrial Electronics***	4	<b>Semester Total</b>	<b>12-17</b>
General Education	0-4		
<b>Semester Total</b>	<b>12-16</b>		

Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.

<b>Senior Year - First Semester</b>	<b>Hrs.</b>	<b>Senior Year - Second Semester</b>	<b>Hrs.</b>
General Education	0-11	General Education	0-11
Management Elective***	3	ICAP 4110 Industrial Problem Solving	3
Department Approved Upper-Level Electives***	3-8	Department Approved Upper-Level Elective***	3-8
<b>Semester Total</b>	<b>12-17</b>	<b>Semester Total</b>	<b>12-17</b>

#### Electronics Technology Functional Major (Electrical/Electronic Communication Technology Area) B.S. Degree - 124 hours

- \*Course ONLY available semester indicated.
- \*\*AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective
- \*\*\*40 Hours of upper level credit must be earned to meet graduation requirements. Of the 26 hours of major electives needed (management and departmentally approved), at least 24 must be upper-level coursework.
- 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 C-BASE exam. These courses are indicated on the plan in ***bold italics***.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

**Electronics Technology Functional Major B.S. Degree**

2/2007

**Computer/Networking Technology Area**

This is the recommended program of study for the Electronics Technology Major (Computer/Networking Technology Area), B.S. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective UCM students should contact the School of Technology for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Second Semester</b>	<b>Hrs.</b>
ET 1026 DC Circuit Analysis	4	ET 1027 AC Circuit Analysis*	4
ET 1050 Digital Principles & Applications*	4	ET 2048 Active Electronic Devices*	4
<b>MATH 1111 College Algebra**</b>	3	<b>ENGL 1030 Composition II**</b>	3
<b>ENGL 1020 Composition I**</b>	3	NET 2058 Computer Technologies	3
Additional General Studies Course**	0-3	Additional General Studies Course**	3
<b>Semester Total</b>	<b>14-17</b>	<b>Semester Total</b>	<b>17</b>

<b>Sophomore Year - First Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs.</b>
ET 2060 Microprocessors*	4	ET 2065 Computer Prog. For Electronics Tech.*	4
NET 1060 Introduction to Networking Basics*	3	NET 2060 Switching Basics and Inter. Routing*	3
NET 1061 Routers & Routing Basics*	3	NET 2061 WAN Technologies*	3
<b>CHEM 1104 Chemistry (with lab)**</b>	4	COMM 1000 Public Speaking**	3
Additional General Studies Course**	0-3	Additional General Studies Course**	0-3
<b>Semester Total</b>	<b>15-18</b>	<b>Semester Total</b>	<b>15-18</b>

**Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>	<b>Hrs.</b>	<b>Junior Year - Second Semester</b>	<b>Hrs.</b>
NET 4060 Advanced Network Routing	3	NET 4061 Advanced Switching	3
T&OE 3060 Technical Report Writing	2	Dept. Appr. or Electr. Tech. Upper-Lev. Elective	3-8
Dept. Appr. or Electr. Tech. Upper-Lev. Elective	3-8	Econ 1010 Principles of Economics**	3
Additional General Studies Course**	0-3	Additional General Studies Course**	0-8
<b>Semester Total</b>	<b>12-16</b>	<b>Semester Total</b>	<b>12-17</b>

**Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.**

<b>Senior Year - First Semester</b>	<b>Hrs.</b>	<b>Senior Year - Second Semester</b>	<b>Hrs.</b>
NET 4062 Advanced Switching	3	NET 4063 Networking Support	3
Dept. Appr. or Electr. Tech. Upper-Lev. Elective	3-6	Dept. Appr. or Electr. Tech. Upper-Lev. Elective	3-6
Additional General Studies Course**	0-6	Additional General Studies Course**	0-6
<b>Semester Total</b>	<b>12-17</b>	<b>Semester Total</b>	<b>12-17</b>

**Electronics Technology Functional Major (Computer/Networking Technology Area)  
B.S. Degree - Minimum 124 hours required**

- \*Course ONLY available semester indicated.
- \*\*General Studies Courses MUST meet catalog requirements.
- For this program 40 credit hours must be 3000-4000 Level.
- Total number of Departmentally Approved Electives is 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 C-BASE exam.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

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

2/2007

This is the recommended program of study for the Elementary Education (grades 1-6) Functional Major, B.S.E. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective UCM students should contact the Department of Curriculum and Instruction for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Second Semester</b>	<b>Hrs.</b>
<b>ENGL 1020 Composition I</b>	3	<b>ENGL 1030 Composition II</b>	3
COMM 1000 Public Speaking	3	<b>HIST 1350 or 1351 U.S. History</b>	3
<b>POLS 1510 American Government</b>	3	<b>MATH 1620 Contemporary Math</b>	3
ART 1800 Ideas & the Visual Arts <b>or</b>		<b>General Education Science (w/ lab)</b>	4
MUS 1210 Experiencing Music	3	T&OE 2000 Technology and Change <b>or</b>	
Modern Language: Chin., Fren., Ger. or Span.	3	BTE 1210 Essentials of Managing Info.	2-3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15-16</b>
AE 1400 Freshman Seminar*			

<b>Sophomore Year - First Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs.</b>
EDCI 2100 Foundations of Ed. & Field Exp.	3	Science for Teachers requirement	3
EDCI 2101 Models of Teaching	2	PSY 2220 Child Psychology <b>or</b>	
EDCI 2240 Educational Psychology	3	PSY 3220 Lifespan Development	3
EDCI 2310 Computer/Technology in Education	2	General Education Literature	3
GEOG 2212 World Geography	3	EDCI 3210 Methods of Reading Instruction	3
MATH 1800 Intro. to Elementary & M.S. Math	2	Teaching area of concentration*	6
MATH 2801 Conc. & Meth. Elem. Math**	3	<b>Semester Total</b>	<b>18</b>
<b>Semester Total</b>	<b>18</b>		

**Take the College BASE for Teachers Exam the semester following the completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>	<b>Hrs.</b>	<b>Junior Year - Second Semester</b>	<b>Hrs.</b>
EDSP 2100 Education of Exceptional Child <b>or</b>		EDCI 3420 Teach Social Studies & Economics	3
PSY 4200 Psychology of Exceptional Children	2	ART 3910 Art for Elementary School	2
EDCI 2110 World Diversity & America	3	MUS 3301 Music for Elementary School	2
EDCI 3220 Teaching Language Arts	3	IGEN 3468 Home/Sch./Comm. Relations	3
EDCI 3215 Reading in the Content Fields	3	HED 3310 Health Education in Elem. School	2
EDCI 3410 Children's Literature	2	Teaching area of concentration**	6
HED 4330 First Aid & CPR for Education	1	<b>Semester Total</b>	<b>18</b>
Teaching area of concentration*	3		
<b>Semester Total</b>	<b>17</b>		

**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.**

<b>Senior Year - First Semester</b>	<b>Hrs.</b>	<b>Senior Year - Second Semester</b>	<b>Hrs.</b>
EDCI 4220 Analysis & Corr. Reading Instr.	2	EDCI 4495 Student Teaching I	6
EDCI 4250 Practicum in Reading	1	EDCI 4496 Student Teaching II	6
EDCI 4400 Classroom Management & Interac.	3	<b>Semester Total</b>	<b>12</b>
EDCI 4350 Elementary Science Tch. Strat.	3		
PE 3420 Elementary School PE Activities	2		
Teaching area of concentration**	6		
<b>Semester Total</b>	<b>17</b>		

## Elementary Education Major, B.S. in Ed. Degree - 130 hours

- \*AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective.
- \*\*Students selecting a math minor must contact the math adviser before enrolling in Math 2801.
- 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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- A teaching area of concentration is a content area for which UCM sponsors certification. For elementary education majors, these are: Art, English, French, Family and Consumer Sciences, German, Instructional Technology, Math, Science, Social Studies, Spanish, Special Education, and Speech Communication/Theatre. These range in hours from 21 to 27. The above plan is based on a 21 credit hour area of concentration.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

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

2/2007

This is the recommended program of study for the Elementary Education (Birth – Grade 3) Functional Major, B.S. in Ed. Degree, at the University of Central Missouri. Your schedule may vary. Current or prospective UCM students should contact the Department of Curriculum and Instruction for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Second Semester</b>	<b>Hrs.</b>
<b><i>ENGL 1020 Composition I</i></b>	3	<b><i>ENGL 1030 Composition II</i></b>	3
COMM 1000 Public Speaking	3	<b><i>HIST 1350 or 1351 U.S. History</i></b>	3
<b><i>POLS 1510 American Government</i></b>	3	<b><i>MATH 1620 Contemporary Math</i></b>	3
ART 1800 Ideas & the Visual Arts <b>or</b>		<b><i>General Ed. Science (must have lab)</i></b>	4
MUS 1210 Experiencing Music	3	T&OE 2000 Technology and Change <b>or</b>	
Modern Lang. - French, Ger. or Span.	3	BTE 1210 Essentials of Managing Info.	2-3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15-16</b>
AE 1400 Freshman Seminar*			

<b>Sophomore Year - First Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs.</b>
EDCI 2100 Foundations of Ed. & Field Exp.	3	Science for Teachers requirement	3
EDCI 2101 Models of Teaching	2	PSY 2220 Child Psychology <b>or</b>	
EDCI 2240 Educational Psychology	3	PSY 3220 Lifespan Development	3
EDCI 2310 Computer/Technology in Education	2	<b><i>General Education Literature</i></b>	3
<b><i>GEOG 2212 World Geography</i></b>	3	EDCI 3210 Methods of Reading Instruction	3
MATH 1800 Introduction to Elem. & M.S. Math	2	Teaching Area of Concentration**	6
MATH 2801 Conc. & Meth. Elem. Math	3	<b>Semester Total</b>	<b>18</b>
<b>Semester Total</b>	<b>18</b>		

**Take the College BASE for Teachers Exam the semester following the completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>	<b>Hrs.</b>	<b>Junior Year - Second Semester</b>	<b>Hrs.</b>
EDSP 2100 Education of the Exceptional Child <b>or</b>	2	EDCI 3420 Teach. Social Studies & Econ.	3
PSY 4200 Psych. of Exceptional Children		ART 3910 Art for Elementary School	2
EDCI 3215 Reading in the Content Fields	3	MUS 3301 Music for Elem. School	2
EDCI 2110 World Diversity & America	3	IGEN 3468 Home/Sch./Comm. Relations	3
EDCI 3220 Teaching Language Arts	3	HED 3310 Health Ed. in Elementary School	2
EDCI 3410 Children's Literature	2	Teaching Area of Concentration**	6
HED 4330 First Aid and CPR for Ed.	1	<b>Semester Total</b>	<b>18</b>
Teaching Area of Concentration**	3		
<b>Semester Total</b>	<b>17</b>		

**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.**

<b>Senior Year - First Semester</b>	<b>Hrs.</b>	<b>Senior Year - Second Semester</b>	<b>Hrs.</b>
EDCI 4220 Analysis & Corr. of Reading Disabilities	2	EDCI 4493 Student Teaching Early Childhood	6
EDCI 4250 Practicum in Reading	1	EDCI 4496 Student Teaching Elementary II	6
EDCI 4350 Elem. Science Teaching Strategies	3	<b>Semester Total</b>	<b>12</b>
EDCI 4400 Classroom Management & Interactions	3		
PE 3420 Elem. School PE Activities	2		
Teaching Area of Concentration**	6		
<b>Semester Total</b>	<b>17</b>		

## Elementary Education Major, B.S. in Ed. Degree - 129 hours

- \*AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective.
- \*\*A teaching area of concentration is a content area for which UCM sponsors certification. These include art, English, family and consumer sciences, French, German, health, instructional technology, math, science, social studies, Spanish, special education, and speech communication and theatre. 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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

**Engineering Technology Major (Drafting/Design Option) B.S. Degree**

1/2006

This is the recommended program of study for the Engineering Technology Major (Drafting/Design Option), B.S. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective UCM students should contact the School of Technology for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Second Semester</b>	<b>Hrs.</b>
GRAP 1110 Fundamentals of Drafting	3	<b>MATH 1152 Calculus II</b>	5
MMGT 1510 Intro. to Manufacturing Processes	3	GRAP 2170 Intro. to Computer-Aided Drafting	3
<b>MATH 1151 Calculus I</b>	5	GRAP 1120 Machine Drafting	3
<b>ENGL 1020 Composition I</b>	3	<b>General Education</b>	3
ECON 1010 Principles of Economics	3	<b>ENGL 1030 Composition II.</b>	3
<b>Semester Total</b>	<b>17</b>	<b>Semester Total</b>	<b>17</b>

<b>Sophomore Year - First Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs.</b>
GRAP 2150 Descriptive Geometry	3	T&OE 3060 Technical Writing	3
ET 1010 Applied Electricity or ET 1026 DC Circuit Analysis	3-4	CMGT 2020 Mechanics of Materials	3
<b>Gen. Ed. Div II Area B Hist or PS</b>	3	MMGT 1012 Global Production Technology or T&OE 2000 Technology and Change	2-3
<b>CHEM 1104 Chemistry (with lab)</b>	4	<b>PHYS 1104 Physics (with lab)</b>	4
<b>COMM 1000 Public Speaking</b>	3	<b>Semester Total</b>	<b>15-16</b>
<b>Semester Total</b>	<b>16-17</b>		

**Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>	<b>Hrs.</b>	<b>Junior Year - Second Semester</b>	<b>Hrs.</b>
SAFE 3000 Prin. of Accident Causation & Prev.	3	PR&T 4032 Hydraulics & Pneumatics	3
ET 3017 Industrial Electronics	4	MMGT 2040 Engineering Material Science	3
GRAP 4124 Geo. Dimensioning & Tolerancing	2	COMM Interpersonal Communication	3
GRAP 3145 Seminar Drafting/Design	0.5	<b>General Education</b>	3
<b>General Education</b>	9	Dept. Approved Elective	3
<b>Semester Total</b>	<b>18.5</b>	GRAP 3145 Seminar Drafting/Design	0.5
		<b>Semester Total</b>	<b>15.5</b>

<b>Junior Year - Summer Semester</b>	<b>Hrs.</b>	<b>Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.</b>
T&OE 3022 Internship in Technology	3	
<b>Semester Total</b>	<b>3</b>	

<b>Senior Year - First Semester</b>	<b>Hrs.</b>	<b>Senior Year - Second Semester</b>	<b>Hrs.</b>
MMGT 4580 Quality Systems	3	GRAP 4175 Adv. 3D Analysis	3
MMGT 3520 Engineering Economy	3	GRAP 4180 Industrial Design	3
INDM 4210 Industrial Management	3	Dept. Approved Elective	6
GRAP 4170 CADD for Engineering Technology	3	GRAP 3145 Seminar Drafting/Design	0.5
CMGT 3020 Applied Strength of Materials	3	ICAP 4110 Industrial Problem Solving	3
GRAP 3145 Seminar Drafting/Design	0.5	<b>Semester Total</b>	<b>15.5</b>
<b>Semester Total</b>	<b>15.5</b>		

**Engineering Technology Major (Drafting/Design Option) B.S. Degree - 133-135 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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

**Engineering Technology Major (Electronics Engineering Option) B.S. Degree**

1/2006

This is the recommended program of study for the Engineering Technology Major (Electronics Engineering Option), B.S. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the School of Technology for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Second Semester</b>	<b>Hrs.</b>
ET 1026 DC Circuit Analysis	4	<b><i>MATH 1152 Calculus II</i></b>	5
ET 1050 Digital Principles & Applications	4	ET 1027 AC Circuit Analysis	4
<b><i>MATH 1151 Calculus I</i></b>	5	GRAP 1110 Fundamentals of Drafting	3
<b><i>ENGL 1020 Composition I</i></b>	3	<b><i>ENGL 1030 Composition II</i></b>	3
<b>Semester Total</b>	<b>16</b>	ET 2048 Active Elect. Devices	4
		<b>Semester Total</b>	<b>19</b>

<b>Sophomore Year - First Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs.</b>
GRAP 2170 Intro. to Computer-Aided Drafting	3	ET 2065 Computer Prog. for Electronics Tech.	4
ET 3017 Industrial Electronics	4	<b><i>PHYS 1104 Physics (with lab)</i></b>	4
ET 2060 Microprocessors	4	MMGT 1012 Global Production	2
<b><i>CHEM 1104 Chemistry (with lab)</i></b>	4	<b><i>Gen. Ed. Hist 1350, 1351 or POLS 1510</i></b>	3
<b><i>COMM 1000 Public Speaking</i></b>	3	General Education	3
<b>Semester Total</b>	<b>18</b>	<b>Semester Total</b>	<b>16</b>

**Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>	<b>Hrs.</b>	<b>Junior Year - Second Semester</b>	<b>Hrs.</b>
T&OE 3060 Technical Report Writing	3	SAFE 3000 Prin. of Accident Causation & Prev.	3
EET 2330 Transformer Analysis	3	PR&T 403 Hydraulics and Pneumatics	3
Dept. Approved Elective	4	INDM 4210 Industrial Management	3
ECON 1010 Principles of Economics	3	General Education	6
General Education	3	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>16</b>		

<b>Junior Year - Summer Semester</b>	<b>Hrs.</b>	<b>Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.</b>
T&OE 3022 Internship in Technology	3	

<b>Senior Year - First Semester</b>	<b>Hrs.</b>	<b>Senior Year - Second Semester</b>	<b>Hrs.</b>
MMGT 4580 Quality Systems	3	ICAP 4110 Industrial Problem Solving	3
MMGT 3520 Engineering Economy	3	Dept. Approved Elective	8
COMM 3010 Interpersonal Communication	3	General Education	3
Dept. Approved Elective	7	<b>Semester Total</b>	<b>14</b>
<b>Semester Total</b>	<b>16</b>		

**Engineering Technology Major (Electronics Engineering Option) B.S. Degree - 133 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 C-BASE exam. These courses are indicated on the plan in bold italics.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

**Engineering Technology Major (Industrial Engineering Option), B.S. Degree**

1/2006

This is the recommended program of study for the Engineering Technology Major (Industrial Engineering Option), B.S. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective UCM students should contact the School of Technology for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Second Semester</b>	<b>Hrs.</b>
GRAP 1110 Fundamentals of Drafting	3	<b>MATH 1152 Calculus II</b>	5
MMGT 1510 Intro. to Mfg. Process	3	GRAP 2170 Intro. to CAD	3
<b>MATH 1151 Calculus I</b>	5	MMGT 2515 Appl. Mfg. Process	3
<b>ENGL 1020 Composition I</b>	3	General Education	3
ECON 1010 Principles of Economics	3	<b>ENGL 1030 Composition II</b>	3
<b>Semester Total</b>	<b>17</b>	<b>Semester Total</b>	<b>17</b>

<b>Sophomore Year - First Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs.</b>
MMGT 2040 Engr. Material Science	4	T&OE 3060 Technical Writing	3
ET 1010 Applied Electricity or ET 1026 DC Circuit Analysis	3-4	MMGT 2530 Mach. Tool Tech.	3
<b>Gen Ed Div II Area B Hist. or PS.</b>	3	MMGT 1012 Global Prod. Tech. or T&OE 2000 Technology and Change	2-3
<b>CHEM 1104 Chemistry (with lab)</b>	4	<b>PHYS 1104 Physics (with lab)</b>	4
<b>Semester Total</b>	<b>15-16</b>	General Education	3
		<b>Semester Total</b>	<b>15-16</b>

**Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>	<b>Hrs.</b>	<b>Junior Year - Second Semester</b>	<b>Hrs.</b>
SAFE 3000 Prin. of Accident Causation & Prev.	3	PR&T 4032 Teach. Hydraulics & Pneumatics	3
ET 3017 Industrial Electronics	4	INDM 4220 Human Factors Engr.	3
MMGT 3510 Engr. Planning & Control	3	MATH 2310 Applied Statistics	3
<b>COMM 1000 Public Speaking</b>	3	COMM 3010 Interpersonal Comm.	3
General Education	3	General Education	6
<b>Semester Total</b>	<b>16</b>	<b>Semester Total</b>	<b>18</b>

<b>Junior Year - Summer Semester</b>	<b>Hrs.</b>	<b>Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.</b>
T&OE 3022 Internship in Technology	3	
<b>Semester Total</b>	<b>3</b>	

<b>Senior Year - First Semester</b>	<b>Hrs.</b>	<b>Senior Year - Second Semester</b>	<b>Hrs.</b>
MMGT 4580 Quality Systems	3	INDM 4240 Facilities Engr.	3
MMGT 3520 Engineering Economy	3	INDM 4260 Organizational Dynamics	3
INDM 4210 Industrial Management	3	MMGT 3530 Inspection & Quality Control	3
MMGT 4550 Simulation	3	MMGT 4520 Robotics & Automation	3
MMGT 3550 Prin. of Numerical Control	3	ICAP 4110 Industrial Problem Solving	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>

**Engineering Technology Major (Industrial Engineering Option), B.S. Degree – 131-133 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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

## English Major, B.A. Degree

2/2007

This is the recommended program of study for the English Major, B.A. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective University of Central Missouri students should contact the Department of English and Philosophy for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs</b>	<b>Freshman Year - Second Semester</b>	<b>Hrs</b>
<b><i>ENGL 1020 Composition I</i></b>	3	<b><i>ENGL 1030 Composition II</i></b>	3
General Education	6	<b><i>General Education Math</i></b>	3
Modern Language Requirement***	3	General Education	6
Free Choice Elective	3	Modern Language Requirement***	3
<b>Semester Total</b>	<b>16</b>	<b>Semester Total</b>	<b>15</b>
AE 1400 Freshman Seminar*			

<b>Sophomore Year - First Semester</b>	<b>Hrs</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs</b>
ENGL 2210 or 2215 British Literature**	3	ENGL 2220 World Masterpieces***	3
General Education	6	ENGL 2200 or 2205 American Literature**	3
Free Choice Elective	3	<b><i>General Education Science</i></b>	3-4
<b><i>HIST 1350 or 1351 or POLS 1510</i></b>	3	Coursework in Minor	3
<b>Semester Total</b>	<b>15</b>	General Education	3
		<b>Semester Total</b>	<b>15-16</b>

**Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>	<b>Hrs</b>	<b>Junior Year - Second Semester</b>	<b>Hrs</b>
ENGL 3240 Critical Approaches to Literature	3	ENGL 4360 Shakespeare	3
ENGL 3120 History of English Language	3	ENGL American Literature A or B Elective**	3
ENGL British Literature A or B Elective**	3	Coursework in Minor	6
Coursework in Minor	6	General Education	3
Free Choice Electives	3	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>18</b>		

**Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.**

<b>Senior Year - First Semester</b>	<b>Hrs</b>	<b>Senior Year - Second Semester</b>	<b>Hrs</b>
ENGL British Literature A or B Elective**	3	Upper-Level ENGL Electives	6
ENGL American Lit. A or B Elective**	3	Coursework in Minor	3
Upper-Level ENGL Elective	3	Free Choice Elective	6
Coursework in Minor	3	<b>Semester Total</b>	<b>15</b>
General Education	3		
<b>Semester Total</b>	<b>15</b>		

## English 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.
- \*\*See the Undergraduate Catalog for the choices that fulfill this requirement.
- \*\*\*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.
- This plan is based on a 21-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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.



**English Education Major, B.S. in Education Degree**

2/2007

This is the recommended program of study for the English Major, B.S. in Education at the University of Central Missouri. Your schedule may vary. Current or prospective University of Central Missouri students should contact the Department of English and Philosophy for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs</b>	<b>Freshman Year - Second Semester</b>	<b>Hrs</b>
<b>ENGL 1020 Composition I</b>	3	<b>ENGL 1030 Composition II</b>	3
<b>General Education Science*</b>	3-4	<b>General Education Math</b>	3
General Education	9	<b>POLS 1510 American Government</b>	3
<b>Semester Total</b>	<b>15-16</b>	General Education	5-6
AE 1400 Freshman Seminar**		<b>Semester Total</b>	<b>14-15</b>

<b>Sophomore Year - First Semester</b>	<b>Hrs</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs</b>
ENGL 2210 or 2215 British Literature	3	ENGL 2200 or 2205 American Literature	3
ENGL 2830 Literature for Adolescents	3	ENGL 2220 World Masterpieces	3
EDCI 2240 Educational Psychology	3	ENGL 3120 History of the English Language	3
EDCI 2100 Foundations of Ed. and Field Exp.	3	Coursework in Minor	3
<b>HIST 1350 or 1351 U.S. History</b>	3	General Education	3
Coursework in Minor	3	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>18</b>		

**Take the College BASE for Teachers Exam the semester following the completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>	<b>Hrs</b>	<b>Junior Year - Second Semester</b>	<b>Hrs</b>
ENGL 3110 English Grammar	3	ENGL 3040 Advanced Rhetoric	3
Upper-Level British Literature***	3	ENGL 3240 Critical Approaches to Literature	3
Upper-Level American Literature***	3	Upper-Level British Literature***	3
EDSP 2100 Ed. of the Exceptional Child <b>or</b>		PSY 4230 Psychology of Adolescence	3
PSY 4200 Psy. of the Exceptional Child	2	Coursework in Minor	3
Coursework in Minor	6	General Education	3
<b>Semester Total</b>	<b>17</b>	<b>Semester Total</b>	<b>18</b>

**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.**

<b>Senior Year - First Semester</b>	<b>Hrs</b>	<b>Senior Year - Second Semester</b>	<b>Hrs</b>
ENGL 4000 Senior Seminar	1	ENGL 4820 Secondary Field Experience II	1
ENGL 3030 Composition and Evaluation	3	ENGL 4890 Methods of Teaching English	2
EDCI 3500 Sec. Teaching and Behavioral Mgmt.	3	EDCI 4595 Student Teaching Secondary I	5
EDCI 3550 Practicum in Sec. Instruction	1	ICAP 4468 Student Teaching Secondary II	4
EDCI 4300 Ed. Measurement and Evaluation	2	<b>Semester Total</b>	<b>12</b>
EDCI 4210 Teach., Reading in the Sec. School	2	<b>NOTE:</b> The courses listed for this semester	
Upper-Level American Literature***	3	constitute the professional education	
Coursework in Minor	3	block. The student should not take any	
<b>Semester Total</b>	<b>18</b>	other courses during this semester.	

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

- \*Students pursuing a B.S. in Ed. must complete a biology prefix.
- \*\*AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective, however, this major does not require free choice electives.
- \*\*\*See the current catalog for the choices that fulfill this requirement.
- 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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

## English Education Functional Major, B.S. in Ed. Degree

2/2007

This is the recommended program of study for the English Functional Major, B.S. in Ed. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective University of Central Missouri students should contact the Department of English and Philosophy for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs</b>	<b>Freshman Year - Second Semester</b>	<b>Hrs</b>
<b>ENGL 1020 Composition I</b>	3	<b>ENGL 1030 Composition II</b>	3
General Education	12	<b>POLS 1510 American Government</b>	3
<b>Semester Total</b>	<b>15</b>	<b>General Education Math</b>	3
AE 1400 Freshman Seminar*		General Education	6
		<b>Semester Total</b>	<b>15</b>

<b>Sophomore Year - First Semester</b>	<b>Hrs</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs</b>
ENGL 2215 or 2210 British Literature	3	ENGL 2205 or 2200 American Literature	3
ENGL 2830 Literature for Adolescents	3	ENGL 2220 World Masterpieces (General Ed.)	3
EDCI 2240 Educational Psychology	3	ENGL 3120 History of the English Language	3
EDCI 2100 Foundations of Ed. & Field Exp.	3	PSY 4230 Psychology of Adolescence	3
<b>General Education Science**</b>	3-4	Course in Cognate Area***	3
<b>Semester Total</b>	<b>15-16</b>	<b>HIST 1350 or 1351 U.S. History</b>	3
		<b>Semester Total</b>	<b>18</b>

**Take the College BASE for Teachers Exam the semester following the completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>	<b>Hrs</b>	<b>Junior Year - Second Semester</b>	<b>Hrs</b>
ENGL 3110 English Grammar	3	ENGL 3040 Advanced Rhetoric	3
ENGL 3240 Critical Approaches to Literature	3	Upper-Level American Literature***	3
EDSP 2100 Education of the Exceptional Child or PSY 4200 Psychology of the Exceptional Child	2	Upper-Level British Literature***	3
Upper-Level American Literature***	3	EDCI 4210 Teaching Reading in Secondary School	2
General Education	3	Upper-Level English Elective	6
Course in Cognate Area***	3	<b>Semester Total</b>	<b>17</b>
<b>Semester Total</b>	<b>17</b>		

**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.**

<b>Senior Year - First Semester</b>	<b>Hrs</b>	<b>Senior Year - Second Semester</b>	<b>Hrs</b>
ENGL 4840 Composition and Evaluation	3	ENGL 4820 Secondary Field Experience II	1
EDCI 3500 Sec. Tchg. and Behavioral Mgmt.	3	ENGL 4890 Methods of Teaching English	2
EDCI 3550 Practicum in Secondary Instruction	1	EDCI 4595 Student Teaching Secondary I	5
ENGL 4360 Shakespeare	3	ICAP 4468 Student Teaching Secondary II	4
Upper-Level British Literature***	3	<b>Semester Total</b>	<b>12</b>
EDCI 4300 Ed. Measurement and Evaluation	2	<b>NOTE:</b> The courses listed for this semester	
<b>Semester Total</b>	<b>15</b>	constitute the professional education	
		block. The student should not take any	
		other courses during this semester.	

## English Education Functional 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.
- \*\*Students pursuing a B.S. in Ed. must complete a biology prefix.
- \*\*\*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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

**Fashion: Textiles & Clothing in Business Functional Major, B.S. Degree**

1/2006

This is the recommended program of study for the Fashion: Textiles & Clothing in Business Functional Major, B.S. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the School of Technology for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Second Semester</b>	<b>Hrs.</b>
<b><i>ENGL 1020 Composition I</i></b>	3	<b><i>ENGL 1030 Composition II</i></b>	3
FAME 1400 Intro. to Fashion Merchandising	3	<b><i>CHEM 1104 Intro to Sciences: Chemistry</i></b>	4
FAME 1420 Applied Design in FAME	3	FAME 1450 Textile & Apparel Fabrications I	3
General Education	2-3	ECON 1010 Principles of Macroeconomics	3
<b><i>General Education Math</i></b>	3	General Education	3
<b>Semester Total</b>	<b>14-15</b>	<b>Semester Total</b>	<b>16</b>
AE 1400 Freshman Seminar*			

<b>Summer – After Freshman or Soph. Year</b>	<b>Hrs.</b>
FAME 2440 Fashion Merchandising Pract.**	3
<b>Semester Total</b>	<b>3</b>

<b>Sophomore Year - First Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs.</b>
FAME 2442 Textiles	3	General Education	9
AGRI 2130 Global Agriculture	3	ACCT 2101 Principles of Financial Accounting	3
FAME 2430 Image Management for Fashion	3	MKT 3400 Principles of Marketing	3
<b><i>HIST 1350 or 1351 or POLS 1510</i></b>	3	<b>Semester Total</b>	<b>15</b>
General Education	3		
<b>Semester Total</b>	<b>15</b>		

**Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>	<b>Hrs.</b>	<b>Junior Year - Second Semester</b>	<b>Hrs.</b>
FAME 3425 App. Performance Eval. (Fall only)	3	FAME 3440 Fashion Promotion	3
General Education	3	FAME 3444 Fashion Products	3
MGT 3310 Principles of Management	3	MKT 3430 Personal Selling	3
MKT 3420 Principles of Advertising	3	MKT 3480 Consumer Behavior	3
MKT 3410 Retail Management	3	IGEN 3116 Creative Problem Solving	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>

<b>Summer – After Junior or Senior Year</b>	<b>Hrs.</b>	<b>Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.</b>
FAME 4490 Intern in Fashion & Appl. Merch.**	3	
<b>Semester Total</b>	<b>3</b>	

<b>Senior Year - First Semester</b>	<b>Hrs.</b>	<b>Senior Year - Second Semester</b>	<b>Hrs.</b>
FAME 4430 Merchandising Applications	3	FAME 4433 International Apparel Technology	3
FAME 4444 Fashion Merchandising	3	FAME 4442 Advanced Textiles	3
General Education	3	FAME 4445 Senior Seminar in FAME	3
FAME 4434 Fashion History	3	Free Choice Elective	4
FAME 4410 Architectural Interiors	3	<b>Semester Total</b>	<b>13</b>
<b>Semester Total</b>	<b>15</b>		

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

- \*AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective
- \*\*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.
- 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 C-BASE exam. These courses are indicated on the plan in ***bold italics***.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

**Finance Functional Major, B.S.B.A. Degree**

2/2007

This is the recommended program of study for the Finance Functional Major, B.S.B.A. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Economics and Finance for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Second Semester</b>	<b>Hrs.</b>
<b>Math 1111 College Algebra*</b>	3	ECON 1010 Principles of Macroeconomics*	3
BTE 1210 Essentials of Managing Information*	2	<b>ENGL 1030 Composition II</b>	3
<b>ENGL 1020 Composition I</b>	3	CIS 1605 Business Application Software	2
PSY 1100 General Psychology <b>or</b>		COMM 1000 Public Speaking	3
SOC 1800 General Sociology	3	General Education	6
General Education	3	<b>Semester Total</b>	<b>17</b>
<b>Semester Total</b>	<b>14</b>		
AE 1400 Freshman Seminar**			

<b>Sophomore Year - First Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs.</b>
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
<b>General Education Science (w/lab)</b>	4	<b>Semester Total</b>	<b>15</b>
<b>HIST 1350 or 1351 or POLS 1510</b>	3	<b>Note: Complete all B.S.B.A. Admission requirements, take C-BASE, and apply for admission*</b>	
<b>Semester Total</b>	<b>16</b>		

**Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>	<b>Hrs.</b>	<b>Junior Year - Second Semester</b>	<b>Hrs.</b>
MGT 3325 Business Communication	3	FIN 3861 Financial Management I	3
ECON 3020 Money & Banking I	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	Business Elective	3
<b>Semester Total</b>	<b>17</b>	<b>Semester Total</b>	<b>15</b>

**Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.**

<b>Senior Year - First Semester</b>	<b>Hrs.</b>	<b>Senior Year - Second Semester</b>	<b>Hrs.</b>
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
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>

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

- A minimum 15-hour block of General Education in Math, Written Communication, History or Political Science, and Science must be completed in the first three semesters (45 hours) to take the College BASE exam for General Education Assessment. These courses are designated in **bold italics**. Passing of the C-BASE exam is required for admission to the B.S.B.A. program.
- \*Students in this major must complete eight preadmission courses, with a 2.25 cumulative GPA and a 2.25 in these specific courses, before admission to the degree program. These courses are recommended for completion during the freshman and sophomore years, and are indicated on the plan with an (\*).
- \*\*AE 1400 (1 hr.) is highly recommended for academic success. AE 1400 counts as a free choice, non-business 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.
- 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 2.25 cumulative GPA is required for graduation in this major.
- See current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

**French Major, B.A. Degree**

2/2007

This is the recommended program of study for the French Major, B.A. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Modern Languages for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs.</b>	<b>Freshman Year -Second Semester</b>	<b>Hrs.</b>
<b><i>ENGL 1020 Composition I</i></b>	3	<b><i>ENGL 1030 Composition II</i></b>	3
FREN 2201 Intermediate French I	3	<b><i>Gen Ed Math</i></b>	3
General Education	8-9	FREN 2202 Intermediate French II	3
<b>Semester Total</b>	<b>14-15</b>	General Education	3
AE 1400 Freshman Seminar*		Coursework in minor	3
		<b>Semester Total</b>	<b>15</b>

<b>Sophomore Year - First Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs.</b>
<b><i>General Education Science</i></b>	3-4	<b><i>HIST 1350 or 1351 or POLS 1510</i></b>	3
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	3	General Education	3
Coursework in Minor	3	Coursework in Minor	3
<b>Semester Total</b>	<b>15-16</b>	<b>Semester Total</b>	<b>15</b>

**Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>	<b>Hrs.</b>	<b>Junior Year - Second Semester</b>	<b>Hrs.</b>
FREN 4223 Advanced French Composition	3	FREN 4243 Advanced French Conversation	3
Coursework in Minor	6	Coursework in Minor	6
General Education	6	General Education	3
<b>Semester Total</b>	<b>15</b>	Free Electives	3
		<b>Semester Total</b>	<b>15</b>

**Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.**

<b>Senior Year - First Semester</b>	<b>Hrs.</b>	<b>Senior Year - Second Semester</b>	<b>Hrs.</b>
FREN 4263 French Phonetics	3	FREN 4265 The Contemp. French-Speaking World	3
FREN Electives 4000 Level	3	FREN Electives 4000 Level	3
Coursework in Minor	3	Coursework in Minor	3
Free Choice Electives	6	General Education	3
<b>Semester Total</b>	<b>15</b>	Free Choice Electives	1
		<b>Semester Total</b>	<b>13</b>

**French Major, B.A. Degree - 124 hours**  
**(118 hours taken on campus plus six hours of "validated credit" or "dual credit".)**

- \*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.
- **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.
- 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 C-BASE exam. These courses are indicated on the plan in ***bold italics***.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

**French Major, B.S. Degree**

2/2007

This is the recommended program of study for the French Major, B.S. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Modern Languages for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs.</b>	<b>Freshman Year -Second Semester</b>	<b>Hrs.</b>
<b>ENGL 1020 Composition I</b>	3	<b>ENGL 1030 Composition II</b>	3
FREN 2201 Intermediate French I	3	<b>General Education Math</b>	3
General Education	8-9	FREN 2202 Intermediate French II	3
<b>Semester Total</b>	<b>14-15</b>	General Education	3
AE 1400 Freshman Seminar*		Coursework in Minor	3
		<b>Semester Total</b>	<b>15</b>

<b>Sophomore Year - First Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs.</b>
<b>General Education Science</b>	3-4	<b>HIST 1350 or 1351 or POLS 1510</b>	3
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	3	General Education	3
Coursework in Minor	3	Coursework in Minor	3
<b>Semester Total</b>	<b>15-16</b>	<b>Semester Total</b>	<b>15</b>

**Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>	<b>Hrs.</b>	<b>Junior Year - Second Semester</b>	<b>Hrs.</b>
FREN 4223 Advanced French Composition	3	FREN 4243 Advanced French Conversation	3
Coursework in Minor	6	Coursework in Minor	6
General Education	6	General Education	3
<b>Semester Total</b>	<b>15</b>	Free Choice Electives	3
		<b>Semester Total</b>	<b>15</b>

**Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.**

<b>Senior Year - First Semester</b>	<b>Hrs.</b>	<b>Senior Year - Second Semester</b>	<b>Hrs.</b>
FREN 4263 French Phonetics	3	FREN 4265 The Contemp. French-Speaking World	3
FREN Electives 4000 level	3	FREN Electives 4000 Level	3
Coursework in Minor	3	General Education	3
Free Choice Electives	6	Coursework in Minor	3
<b>Semester Total</b>	<b>15</b>	Free Choice Electives	1
		<b>Semester Total</b>	<b>13</b>

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

- \*AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective.
- **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.
- 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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

## French Education Major, B.S. in Ed. Degree

2/2007

This is the recommended program of study for the French Education Major, B.S. in Ed. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Modern Languages for further information or guidance.

Freshman Year - First Semester		Freshman Year - Second Semester	
<b>ENGL 1020 Composition I</b>	<b>Hrs.</b> 3	<b>ENGL 1030 Composition II</b>	<b>Hrs.</b> 3
<b>POLS 1510 American Government</b>	3	FREN 2202 Intermediate French II	3
FREN 2201 – Intermediate French I	3	<b>General Education Math</b>	3
<b>General Education Science*</b>	3-4	Coursework for Minor	3
General Education	2-3	<b>HIST 1350 or 1351 US History</b>	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>
AE 1400 Freshman Seminar**			

Sophomore Year - First Semester		Sophomore Year - Second	
EDCI 2100 Fnd. of Ed. & Field Experience	3	FREN 3262 French Civilization & Lit. II	3
EDCI 2240 Educational Psychology	3	FREN 3223 French Composition	3
FREN 3261 French Civilization and Lit. I	3	FREN 4243 Advanced French Conversation	3
FREN 3243 French Conversation	3	Upper-Level French Elective	3
General Education	3	Coursework for Minor	3
Coursework for Minor	3	General Education	3
<b>Semester Total</b>	<b>18</b>	<b>Semester Total</b>	<b>18</b>

**Take the College BASE for Teachers Exam the semester following the completion of the 15 hour set of General Education courses.**

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

**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.**

Senior Year - First Semester		Senior Year - Second Semester	
FREN 4263 French Phonetics	3	ML 4020 Field Experience II	1
PSY 4230 Psychology of Adolescence	3	ML 4054 Methods of Teaching Foreign Langs.	2
EDCI 4210 Teaching Reading in Sec. Schools	2	EDCI 4495 Student Teaching Elementary I	5
EDCI 3500 Secondary Tchg. & Behavioral Mgt.	3	ICAP 4468 Student Teaching Secondary II	4
EDCI 3550 Practicum in Secondary Inst.	1	<b>Semester Total</b>	<b>12</b>
Coursework for Minor	3		
<b>Semester Total</b>	<b>15</b>		

**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.
- \*\*AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective, however, this major does not require free choice electives.
- **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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

## General Recreation Major, B.S. Degree

2/2007

This is the recommended program of study for the General Recreation Major, B.S. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Health and Human Performance for further information or guidance.

Freshman Year - First Semester		Hrs.	Freshman Year - Second Semester		Hrs.
REC 1100 Introduction to Recreation		3	REC 2200 Develop. Rec. & Tour. Prog. (Spr. only)		3
<b>ENGL 1020 Composition I</b>		3	<b>ENGL 1030 Composition II</b>		3
<b>General Education Math</b>		3	<b>General Education Science</b>		4
General Education		6	General Education		5
<b>Semester Total</b>		<b>15</b>	<b>Semester Total</b>		<b>15</b>
AE 1400 Freshman Seminar*					

Sophomore Year - First Semester		Hrs.	Sophomore Year - Second Semester		Hrs.
REC 3530 Outdoor Rec. Skills & Advent. (Fall only)		3	TOUR 3500 Microcomp. App. for Tour. & Rec.		3
REC 3210 Leadership & Group Dyn. (Fall only)		3	Coursework in Minor		3
<b>HIST 1350 or 1351 or POLS 1510</b>		3	General Education		9
General Education		6	<b>Semester Total</b>		<b>15</b>
<b>Semester Total</b>		<b>15</b>			

Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.

Junior Year - First Semester		Hrs.	Junior Year - Second Semester		Hrs.
REC 2100 Implications of Disabling Conditions (Fall only)		3	PE 4740 Legal Liability in Phys. Ed.		2
REC 4710 Mng. Rec. & Tour. Enterprises** or REC 4720 Fin. Rec. & Tour. Enterprises**		3	Coursework in Minor		6
Coursework in Minor		6	General Education		3
General Education		3	Free Choice Elective		4
<b>Semester Total</b>		<b>15</b>	<b>Semester Total</b>		<b>15</b>

Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.

Senior Year - First Semester		Hrs.	Senior Year - Second Semester		Hrs.
REC 4740 Senior Seminar (Fall only)		2	TOUR 4720 Tourism Planning & Develop. (Spr. only)		3
REC 4710 Managing Rec. & Tour. Enterpr.** or REC 4720 Fin. Rec. & Tour. Enterprises**		3	TOUR 4730 Tourism Marketing (Spr. only)		3
Coursework in Minor		3	Coursework in Minor		3
Free Choice Electives		6	Free Choice Electives		5
<b>Semester Total</b>		<b>14</b>	<b>Semester Total</b>		<b>14</b>

Summer Semester following Senior Year	Hrs.
REC 4980 Internship***	6
<b>Semester Total</b>	<b>6</b>

## General Recreation Major, B.S. Degree - 124 hours

- \*AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective.
- \*\*REC 4710 is **only** offered during even years of the Fall semester and REC 4720 is **only** offered during odd years 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.
- 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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- May lead to Missouri Park and Recreation Association Leader Certification and/or National Council on Therapeutic Recreation Certification as a Certified Therapeutic Recreation Specialist.
- Above degree plan is based on a 21 hour minor.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.



## Geography Major, B.A. Degree

2/2007

This is the recommended program of study for the Geography Major, B.A. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Political Science and Geography for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs.</b>	<b>Freshman Year -Second Semester</b>	<b>Hrs.</b>
<b><i>ENGL 1020 Composition I</i></b>	3	<b><i>ENGL 1030 Composition II</i></b>	3
Modern Language Requirement*	3	<b><i>Gen Ed Math</i></b>	3
GEOG 2212 World Geography	3	GEOG 2211 Geography of North America	3
General Education	6	Modern Language Requirement*	3
<b>Semester Total</b>	<b>15</b>	General Education	3
AE 1400 Freshman Seminar**		<b>Semester Total</b>	<b>15</b>

<b>Sophomore Year - First Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs.</b>
GEOG 2100 Physical Geography	3	GEOG 2246 Economic Geography	3
<b><i>HIST 1350 or 1351 or POLS 1510</i></b>	3	General Education	9
<b><i>Science General Education</i></b> (EASC 1004)***	4	Coursework in Minor	3
General Education	3	<b>Semester Total</b>	<b>15</b>
Modern Language Requirement*	3		
<b>Semester Total</b>	<b>16</b>		

**Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>	<b>Hrs.</b>	<b>Junior Year - Second Semester</b>	<b>Hrs.</b>
GEOG 3270 Research Methods	3	Upper-Level Electives in GEOG	6
Coursework in Minor	6	Free Choice Elective	3
Elective in GEOG or Approved EASC	3	Coursework in Minor	6
Free Choice Electives	5	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>17</b>		

**Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.**

<b>Senior Year - First Semester</b>	<b>Hrs.</b>	<b>Senior Year - Second Semester</b>	<b>Hrs.</b>
GEOG 4201 Cartography	3	Upper-Level Electives in GEOG	6
General Education	3	Coursework in Minor	3
Coursework in Minor	3	Free Choice Electives	7
Upper-Level Elective in GEOG	3	<b>Semester Total</b>	<b>16</b>
Free Choice Elective	3		
<b>Semester Total</b>	<b>15</b>		

### Geography Major, B.A. Degree - 124 hours

- \*Refer to the current catalog for fulfillment options for the B.A. Degree. This plan includes nine hours of Modern Languages.
- \*\*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.
- \*\*\*If selected, EASC 1004 will fulfill 4 hours of General Education Div. II A and major electives.
- 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 C-BASE exam. These courses are indicated on the plan in ***bold italics***.
- This plan is based on a 21-hour minor
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

## Geography Major, B.S. Degree

2/2007

This is the recommended program of study for the Geography Major, B.S. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Political Science and Geography for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Second Semester</b>	<b>Hrs.</b>
<b>ENGL 1020 Composition I</b>	3	GEOG 2211 Geography of North America	3
GEOG 2212 World Geography	3	<b>ENGL 1030 Composition II</b>	3
General Education	9	<b>General Education Math</b>	3
<b>Semester Total</b>	<b>15</b>	General Education	6
AE 1400 Freshman Seminar*		<b>Semester Total</b>	<b>15</b>

<b>Sophomore Year - First Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs.</b>
GEOG 2100 Physical Geography	3	GEOG 2246 Economic Geography	3
<b>HIST 1350 or 1351 or POLS 1510</b>	3	General Education	6
<b>Science General Education (EASC 1004)**</b>	4	Coursework in Minor	3
General Education	3	Free Course Elective	3
Free Course Elective	3	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>16</b>		

Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.

<b>Junior Year - First Semester</b>	<b>Hrs.</b>	<b>Junior Year - Second Semester</b>	<b>Hrs.</b>
GEOG 3270 Research Methods	3	Upper-Level Electives in GEOG (or approved EASC)	6
Coursework in Minor	6	Free Choice Elective	3
Elective in GEOG (or approved EASC)	3	Coursework in Minor	6
Free Choice Elective	5	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>17</b>		

Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.

<b>Senior Year - First Semester</b>	<b>Hrs.</b>	<b>Senior Year - Second Semester</b>	<b>Hrs.</b>
GEOG 4201 Cartography	3	Upper-Level Electives in GEOG	6
General Education	3	Coursework in Minor	3
Coursework in Minor	3	Free Choice Electives	7
Upper-Level Elective in GEOG	3	<b>Semester Total</b>	<b>16</b>
Free Choice Electives	3		
<b>Semester Total</b>	<b>15</b>		

## Geography Major, B.S. Degree - 124 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.
- This plan is based on a 21-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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

**Geology Functional Major, B.S. Degree**

2/2007

This is the recommended program of study for the Geology Functional Major, B.S. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Biology and Earth Science for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs</b>	<b>Freshman Year - Second Semester</b>	<b>Hrs</b>
<b><i>EASC 1004 Intro. to Sci. Geology</i></b>	4	EASC 2200 Historical Geology	4
<b><i>ENGL 1020 Composition I</i></b>	3	<b><i>Math Option**</i></b>	3-5
General Education	6	<b><i>ENGL 1030 Composition II</i></b>	3
<b>Semester Total</b>	<b>13</b>	General Education	6
AE 1400 Freshman Seminar*		<b>Semester Total</b>	<b>16-18</b>

<b>Sophomore Year - First Semester</b>	<b>Hrs</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs</b>
EASC 3320 Mineralogy	4	EASC 4325 Petrology	4
GEOG 4220 Geography Information Systems	3	EASC Elective****	3-4
Math Option	4-5	<b><i>HIST 1350 or 1351 or POLS 1510</i></b>	3
EASC Elective****	3	General Education	2-3
<b>Semester Total</b>	<b>14-15</b>	<b>Semester Total</b>	<b>12-14</b>

**Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>	<b>Hrs</b>	<b>Junior Year - Second Semester</b>	<b>Hrs</b>
Physics Option	4-5	EASC 3110 Structural Geology	4
CHEM 1131 General Chemistry I	5	CHEM 1132 General Chemistry II	5
General Education	6	General Education	6
<b>Semester Total</b>	<b>15-16</b>	<b>Semester Total</b>	<b>15</b>

**Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.**

<b>Junior Year - Summer Semester</b>	<b>Hrs</b>
Field Course***	6

<b>Senior Year - First Semester</b>	<b>Hrs</b>	<b>Senior Year - Second Semester</b>	<b>Hrs</b>
EASC Elective****	3-4	EASC 4420 Sedimentary Petr. & Strat.*****	5
Physics Option	4-5	General Education	3
Free Choice Electives	9	Free Choice Electives	8
<b>Semester Total</b>	<b>16-18</b>	<b>Semester Total</b>	<b>16</b>

**Geology Functional Major, B.S. Degree - 124 hours**

- \*AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective.
- \*\*The Math Option for the major also fulfills the Gen. Ed. requirements, as well as the 15-hour block requirement for Math. See the current catalog for the Math Option choices.
- \*\*\*Must be taken at an approved university. See department for more information.
- \*\*\*\*Students elect three courses from the following list: EASC 2100, EASC 3010, EASC 3111, EASC 3400, and EASC 3501.
- \*\*\*\*\*This course is offered Spring Semester only of even numbered years.
- 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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

## Graphic Arts Technology Management Functional Major, B.S. Degree

1/2006

This is the recommended program of study for the Graphic Arts Technology Management Functional Major, B.S. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the School of Technology for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Second Semester</b>	<b>Hrs.</b>
<b>ENGL 1020 Composition I</b>	3	<b>ENGL 1030 Composition II</b>	3
GRAP 1000 Orientation to Graphic Arts	1	GRAP 2030 Desktop Publish for Printing Apps.	3
GRAP 1010 Intro. to Desktop Publishing & Printing	3	GRAP 2032 Imaging Tech. for the Graphic Arts	3
<b>General Education Math</b>	3	<b>HIST 1350 or 1351 or POLS 1510</b>	3
General Education	5	General Education	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>

<b>Sophomore Year - First Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs.</b>
ACCT 2100 Survey of Accounting	3	GRAP 3034 Offset Press Technology	3
GRAP 2031 Electronic Publishing Systems	3	Required Elective (Choose GRAP 2610, GRAP 3024, GRAP 3040, GRAP 3043, GRAP 4045, or GRAP 4051)	3
GRAP 2035 Image Assembly	3	General Education	9
GRAP 3045 Substrates & Inks	3	<b>Semester Total</b>	<b>15</b>
<b>PHYS 1104 Physics (Lab) or CHEM 1104 Chemistry (Lab)</b>	4		
<b>Semester Total</b>	<b>16</b>		

Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.

<b>Junior Year - First Semester</b>	<b>Hrs.</b>	<b>Junior Year - Second Semester</b>	<b>Hrs.</b>
Required elective (Choose GRAP 2610, GRAP 3024, GRAP 3040, GRAP 3043, GRAP 4045, or GRAP 4051)	3	GRAP 3051 Graphic Arts Management	3
Graphic Arts Technology Management Elective*	3	Graphic Arts Technology Management Elective*	3
General Education	6	MGT 3310 or INDM 4210	3
IGEN 3116 Creative Problem Solving	3	GRAP 4038 Principles of Color Reproduction	3
<b>Semester Total</b>	<b>15</b>	MGT 3325 Business Communications	3
		<b>Semester Total</b>	<b>15</b>

<b>Summer – Between Junior &amp; Senior Year</b>	<b>Hrs.</b>	<b>Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.</b>
GRAP 3016 or T&OE 3022 Internship**	3	
<b>Semester Total</b>	<b>3</b>	

<b>Senior Year - First Semester</b>	<b>Hrs.</b>	<b>Senior Year - Second Semester</b>	<b>Hrs.</b>
GRAP 4053 Graphic Arts Production Analysis	3	GRAP 4055 Printing Estimating & Costing ++	3
GRAP 3057 Graphic Arts Quality Assurance	3	Graphic Arts Technology Management Elective	3
GRAP 4095 Senior Seminar in Graphic Arts	1	General Education	3
Graphic Arts Technology Management Elective	3	Free Choice Electives***	5
General Education	3	<b>Semester Total</b>	<b>14</b>
Free Choice Electives	3		
<b>Semester Total</b>	<b>16</b>		

## Graphic Arts Technology Management Functional Major, B.S. Degree - 124 hours

- \*Graphic Arts Technology Management Elective courses (12 hrs) to meet Area requirements must be approved by a faculty adviser prior to registration. A list of acceptable "Suggested Electives" per Area is available from the Graphic Arts Technology Management Coordinator.
- \*\*GRAP 3016 or T&OE 3022 Internship may be in a Summer, Fall or Spring Semester
- \*\*\*40 hours of upper level credit must be earned to meet graduation requirements. Major electives and free choice electives should be chosen accordingly.
- ++It is recommended that students enroll in GRAP 4055, Printing Estimating and Costing, during the spring semester immediately prior to graduation.
- 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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

**History Major, B.A. Degree**

2/2007

This is the recommended program of study for the History Major, B.A. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of History and Anthropology for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs.</b>	<b>Freshman Year -Second Semester</b>	<b>Hrs.</b>
<b><i>ENGL 1020 Composition I</i></b>	3	<b><i>ENGL 1030 Composition II</i></b>	3
<b><i>HIST 1350 U.S. History to 1877</i></b>	3	<b><i>General Education Math(or Science)</i></b>	3-4
General Education	9	HIST 1351 U.S. History from 1877	3
<b>Semester Total</b>	<b>15</b>	HIST 2402 History of Modern World	3
AE 1400 Freshman Seminar*		General Education	3
		<b>Semester Total</b>	<b>15-16</b>

<b>Sophomore Year - First Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs.</b>
<b><i>General Education Science (or Math)</i></b>	3-4	HIST 2401 History of Early Modern World	3
HIST 2400 History of Early World	3	General Education	6
General Education	6	Coursework in Minor	3
Modern Language Requirement**	3	Modern Language Requirement**	3
<b>Semester Total</b>	<b>15-16</b>	<b>Semester Total</b>	<b>15</b>

**Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>	<b>Hrs.</b>	<b>Junior Year - Second Semester</b>	<b>Hrs.</b>
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
Coursework in Minor	6	Coursework in Minor	6
Modern Language Requirement **	3	Free Choice Electives	4
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>16</b>

**Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.**

<b>Senior Year - First Semester</b>	<b>Hrs.</b>	<b>Senior Year - Second Semester</b>	<b>Hrs.</b>
Upper-Level Elective in World History***	6	IGEN 4231 Myth, Memories, and Realities	3
Upper-Level Elective in History	3	Coursework in Minor	3
Coursework in Minor	3	Free Choice Electives	10
Free Choice Electives	4	<b>Semester Total</b>	<b>16</b>
<b>Semester Total</b>	<b>16</b>		

**History 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 Bachelor's Degree Requirements section of the catalog for the B.A. Modern Language requirements.
- \*\*\*A minimum of three hours of world history must be non-western history, or HIST 4452 or HIST 4453.
- In the major, HIST 1350 fulfills three semester hours of Division II B in the General Education Program and HIST 2402 fulfills three semester hours of Division II D. IGEN 4231 fulfills three semester hours of Division IV A.
- This plan is based on a 21-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 C-BASE exam. These courses are indicated on the plan in ***bold italics***.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

## History Major, B.S. Degree

2/2007

This is the recommended program of study for the History Major, B.S. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of History and Anthropology for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Second Semester</b>	<b>Hrs.</b>
<b>ENGL 1020 Composition I</b>	3	<b>ENGL 1030 Composition II</b>	3
<b>HIST 1350 U.S. History to 1877</b>	3	<b>General Education Math (or Science)</b>	3-4
General Education	9	HIST 1351 U.S. History from 1877	3
<b>Semester Total</b>	<b>15</b>	HIST 2402 History of Modern World	3
AE 1400 Freshman Seminar*		General Education	3
		<b>Semester Total</b>	<b>15-16</b>

<b>Sophomore Year - First Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs.</b>
<b>General Education Science (or Math)</b>	3-4	HIST 2401 History of Early Modern World	3
HIST 2400 History of Early World	3	General Education	6
General Education	9	Coursework in Minor	3
<b>Semester Total</b>	<b>15-16</b>	Free Choice Elective	3
		<b>Semester Total</b>	<b>15</b>

Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.

<b>Junior Year - First Semester</b>	<b>Hrs.</b>	<b>Junior Year - Second Semester</b>	<b>Hrs.</b>
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
Coursework in Minor	6	Coursework in Minor	6
Free Choice Electives	3	Free Choice Electives	4
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>16</b>

Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.

<b>Senior Year - First Semester</b>	<b>Hrs.</b>	<b>Senior Year - Second Semester</b>	<b>Hrs.</b>
Upper-Level Elective in World History**	6	IGEN 4231 Myth, Memories, and Realities	3
Upper-Level Elective in History	3	Coursework in Minor	3
Coursework in Minor	3	Free Choice Electives	10
Free Choice Electives	4	<b>Semester Total</b>	<b>16</b>
<b>Semester Total</b>	<b>16</b>		

## History Major, B.S. Degree - 124 hours

- \*AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective.
- \*\*A minimum of three hours of world history must be non-western history, or HIST 4452 or HIST 4453.
- In the major, HIST 1350 fulfills three semester hours of Division II B in the General Education Program and HIST 2402 fulfills three semester hours of Division II D. IGEN 4231 fulfills three semester hours of Division IV A.
- 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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

**Hotel and Restaurant Administration Functional Major, B.S. Degree**

2/2007

This is the recommended program of study for the Hotel and Restaurant Administration Functional Major, B.S. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Health and Human Performance for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Second Semester</b>	<b>Hrs.</b>
HM 1800 Introduction to Hospitality	3	BTE 1210 Essentials of Managing Info. <b>or</b>	
<b>ENGL 1020 Composition I</b>	3	LIS 1600 Information Resources	2
<b>General Education Math</b>	3	<b>CHEM 1104 Intro. to Sciences: Chemistry</b>	4
General Education	6	<b>ENGL 1030 Composition II</b>	3
<b>Semester Total</b>	<b>15</b>	ECON 1010 Principles of Macroeconomics	3
AE 1400 Freshman Seminar*		General Education	3
		<b>Semester Total</b>	<b>15</b>

<b>Sophomore Year - First Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs.</b>
FOOD 2322 Food Preparation	3	FOOD 3332 Quantity Food Production & Service	3
ACCT 2100 Survey of Accounting	3	General Education	12
<b>HIST 1350 or 1351 or POLS 1510</b>	3	<b>Semester Total</b>	<b>15</b>
General Education	6		
<b>Semester Total</b>	<b>15</b>		

**Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.**

<b>Summer Semester Following Soph. Year</b>	<b>Hrs.</b>
HM 4710 Internship	3
<b>Semester Total</b>	<b>3</b>

<b>Junior Year - First Semester</b>	<b>Hrs.</b>	<b>Junior Year - Second Semester</b>	<b>Hrs.</b>
FOOD 3333 Food Systems Management	3	FOOD 3334 Food Service Equipment & Purchasing	3
HM 3800 Front Office Operations & Management	3	HM 3844 Dining Room Management	3
HM 3850 Plant Operations & Management	2	TOUR 4720 Tourism Planning & Dev. (Spring Only)	3
MGT 3310 Principles of Management	3	HRM 3920 Human Resource Management	3
MGT 3325 Business Communication	3	General Education	3
HM 2830 Hotel/Restaurant Sanitation & Safety	2	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>16</b>		

<b>Summer Semester Following Junior Year</b>	<b>Hrs.</b>	<b>Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.</b>
HM 4710 Internship	5	
<b>Semester Total</b>	<b>5</b>	

<b>Senior Year - First Semester</b>	<b>Hrs.</b>	<b>Senior Year - Second Semester</b>	<b>Hrs.</b>
HM 4720 Demonstration Techniques	2	HM 3860 Beverage Management & Marketing	3
HM 4800 Hotel & Restaurant Management	3	HM 4745 Senior Seminar	3
Free Choice Electives	8	HM 4840 Legal Aspects of Hotel Restaurant Mgmt.	3
<b>Semester Total</b>	<b>13</b>	TOUR 4730 Tourism Marketing (Spring only)	3
		<b>Semester Total</b>	<b>12</b>

**Hotel and Restaurant Administration Functional Major, B.S. Degree - 124 hours**

- \*AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective.
- 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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

**Industrial Technology, B.S. Degree**

2/2007

This is the recommended program of study for the Industrial Technology, B.S. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the School of Technology for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Second Semester</b>	<b>Hrs.</b>
GRAP 1110 Fundamentals of Drafting	3	ET 1050 Digital Principles & Applications	4
ET 1010 Applied Electronics <b>or</b> ET 1020 General Electronics	3	PR&T 1010 Power Mechanics	3
<b>General Education Math</b>	3	<b>ENGL 1030 Composition II</b>	3
<b>ENGL 1020 Composition I</b>	3	<b>General Education Science</b>	3
General Education	3	General Education	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>16</b>
AE 1400 Freshman Seminar*			

<b>Sophomore Year - First Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs.</b>
ACCT 2100 Survey of Accounting	3	MMGT 2040 Engineering Matreial Science	4
MMGT 2530 Machine Tool Technology	3	GRAP 2170 Intro. to Computer-Aided Drafting	3
<b>HIST 1350 or 1351 or POLS 1510</b>	3	General Education	4-5
General Education	6	PHYS 1104 Physics	4
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15-16</b>

**Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>	<b>Hrs.</b>	<b>Junior Year - Second Semester</b>	<b>Hrs.</b>
MMGT 3562 Computer Numerical Control	3	SAFE 3000 Prin. of Accident Causation & Preven.	3
Major Upper Level Elective	3	Major Upper Level Coursework	3
Coursework in Minor**	6	Coursework in Minor**	6
General Education	3	General Education	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>

**Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.**

<b>Senior Year - First Semester</b>	<b>Hrs.</b>	<b>Senior Year - Second Semester</b>	<b>Hrs.</b>
INDM 4210 Industrial Management	3	ICAP 4110 Industrial Problem Solving <b>or</b>	3
PR&T 4032 Hydraulics & Pneumatics	3	IGEN 3116 Creative Problem Solving	
Major Upper Level Coursework	3	Coursework in Minor**	7
Coursework in Minor**	6	General Education	7
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>17</b>

**Industrial Technology, B.S. Degree - 124 hours**

- \*AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective.
- \*\*Forty hours of upper level credit must be earned to meet graduation requirements. Of the 33 hours of minor requirements, major electives, and free choice electives, at least 27 must be upper-level course work.
- \*\*\*The above plan is based on a 21-hour minor. The number of free choice electives will vary based on minor chosen.
- A minimum 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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.



**Industrial Technology Manufacturing Management Functional Major, B.S. Degree**

2/2007

This is the recommended program of study for the Industrial Technology Manufacturing Management Functional Major, B.S. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective UCM students should contact the School of Technology for further information or guidance.

<b>Freshman Year - First Semester</b>		<b>Hrs.</b>	<b>Freshman Year - Second Semester</b>		<b>Hrs.</b>
MMGT 1500	Orientation to Engineer. & Ind. Tech.	1	MMGT 1501	Seminar in Manufacturing	.5
GRAP 1110	Fundamentals of Drafting	3	GRAP 1120	Machine Drafting	3
MMGT 1510	Intro. to Manufacturing Processes	3	MATH 1112	College Trigonometry	2
<b>MATH 1111</b>	<b>College Algebra</b>	3	<b>ENGL 1030</b>	<b>Composition II</b>	3
<b>ENGL 1020</b>	<b>Composition I</b>	3	<b>CHEM 1103</b>	<b>Intro to Science: Chemistry</b>	3
BTE 1210	Essentials of Managing Information	2	ET 1010	Applied Electricity	3
<b>Semester Total</b>		<b>15</b>	<b>Semester Total</b>		<b>14.5</b>
AE 1400	Freshman Seminar*				

<b>Sophomore Year - First Semester</b>		<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>		<b>Hrs.</b>
MMGT 1501	Seminar in Manufacturing	.5	MMGT 1501	Seminar in Manufacturing	.5
CMGT 2020	Mechanics of Materials	3	MMGT 2515	Applied Manufacturing Processes	3
MMGT 2530	Machine Tool Technology	3	PHYS 1104	Physics	4
MMGT 2040	Engineering Material Science	4	GRAP 2170	Intro. to Computer-Aided Drafting	3
ECON 1010	Principles of Macroeconomics	3	General Education		6
<b>HIST 1350 or 1351 or POLS 1510</b>		3	<b>Semester Total</b>		<b>16.5</b>
<b>Semester Total</b>		<b>16.5</b>			

**Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>		<b>Hrs.</b>	<b>Junior Year - Second Semester</b>		<b>Hrs.</b>
MMGT 1501	Seminar in Manufacturing	.5	INDM 4220	Human Factors Engineering	3
MMGT 3562	Computer Numerical Control (CNC)	3	MMGT 3530	Inspection & Quality Control	3
MMGT 3550	Principles of Numerical Control	3	MMGT 4520	Robotics & Automation	3
SAFE 3120	Intro. to Industrial Hygiene <b>or</b>	3	GRAP 4124	Geometric Dim. & Toler. Principles	2
SAFE 3430	Industrial Hazard Control		General Education		3
General Education		3	<b>Semester Total</b>		<b>14</b>
ET 3017	Industrial Electronics	4			
<b>Semester Total</b>		<b>16.5</b>			

**Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.**

<b>Senior Year - First Semester</b>		<b>Hrs.</b>	<b>Senior Year - Second Semester</b>		<b>Hrs.</b>
MMGT 3520	Engineering Economy	3	INDM 4240	Facilities Engineering	3
MMGT 4580	Quality Systems	3	INDM 4260	Organizational Dynamics	3
PR&T 4032	Hydraulics & Pneumatics	3	ICAP 4110	Industrial Problem Solving	3
MMGT 4590	Computer Integrated Manufacturing	3	General Education		6
General Education		3	<b>Semester Total</b>		<b>15</b>
<b>Semester Total</b>		<b>15</b>			

<b>Summer of Senior Year</b>		<b>Hrs.</b>
T&OE 3022	Internship**	1
<b>Semester Total</b>		<b>1</b>

**Industrial Technology Manufacturing Management Functional Major, B.S. 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.
- \*\*T&OE 3022 Internship in Technology will be completed summer of senior year.
- A minimum 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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

**Interior Design Functional Major, B.F.A. Degree**

2/2007

This is the recommended program of study for the Interior Design Functional Major, B.F.A. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Art for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Second Semester</b>	<b>Hrs.</b>
ART 1110 Drawing I	3	ART 1120 Drawing II	3
ART 1315 Design I	3	ART 1325 Design II	3
<b>ENGL 1020 Composition I</b>	3	ART 2310 Intro. to Interior Design	3
GRAP 1110 Fundamentals of Drafting	3	GRAP 2170 Intro. to Computer Aided Drafting	3
<b>General Education Math</b>	3	<b>ENGL 1030 Composition II</b>	3
<b>Semester Total</b>	<b>15</b>	Art 1800 Ideas and Visual Arts	3
AE 1400 Freshman Seminar*		<b>Semester Total</b>	<b>18</b>

<b>Sophomore Year - First Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs.</b>
ART 2320 Residential Interior Design	3	ART 3310 Traditional Interiors	3
ART 1815 Art History Survey I (fall) <b>or</b>		ART 1825 Art History Survey II	3
ART 1835 Survey of Non-West Art (spring)	3	ART 2511 Painting I <b>or</b>	
ART 2335 Design III	3	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
<b>General Education Science</b>	3	<b>HIST 1350 or 1351 or POLS 1510</b>	3
<b>Semester Total</b>	<b>18</b>	<b>Semester Total</b>	<b>18</b>

**Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>	<b>Hrs.</b>	<b>Junior Year - Second Semester</b>	<b>Hrs.</b>
ART 3330 Restaurant/Store Planning	3	ART 4340 Corporate and Institutional Design	3
ART 2412 Ceramics I <b>or</b>		ART 3320 Professional Practice for Int. Designers	3
ART 2420 Sculpture I	3	ART 4850 20th Century Art & Architecture <b>or</b>	
ART 3340 Interior Detailing & Furniture Design	3	ART 4860 Contemporary Art & Design	3
FAME 4410 Architectural Interiors	3	General Education	6
General Education	6	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>18</b>		

**Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.**

<b>Senior Year - First Semester</b>	<b>Hrs.</b>	<b>Senior Year - Second Semester</b>	<b>Hrs.</b>
ART 4020 Studio Seminar	3	Required Major Electives	3
ICAP 4221 Artists in Contemporary Society	3	General Education	9
Required Major Electives	3	<b>Semester Total</b>	<b>12</b>
General Education	6		
<b>Semester Total</b>	<b>15</b>		

**Interior Design Functional Major, B.F.A. Degree - 129 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.
- 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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

## Journalism Major, B.S. Degree

2/2007

This is the recommended program of study for the Journalism Major, B.S. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Communication for further information or guidance.

Freshman Year - First Semester		Freshman Year - Second Semester	
COMM 1100 Introduction to Communication	1	COMM 1520 Elements of News Reporting	3
COMM 1110 Communication Skills Lab	1	<b>ENGL 1030 Composition II</b>	3
COMM 1000 Public Speaking	3	General Education	9
<b>ENGL 1020 Composition I</b>	3	<b>Semester Total</b>	<b>15</b>
<b>HIST 1350 or 1351 or POLS 1510</b>	3		
General Education	3		
<b>Semester Total</b>	<b>14</b>		

Sophomore Year - First Semester		Sophomore Year - Second Semester	
COMM 2100 Intro. to Communication Theory	3	COMM Elective*	3
COMM 2110 Intro. to Comm. Theory Lab	1	COMM 3200 Mass Media Practicum I	1
COMM 2520 Copy Editing & Layout	3	Coursework in Minor	6
Coursework in Minor	3	<b>General Education MATH</b>	3
<b>Science General Education</b>	3-4	General Education	3
General Education	3	<b>Semester Total</b>	<b>16</b>
<b>Semester Total</b>	<b>16-17</b>		

Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.

Junior Year - First Semester		Junior Year - Second Semester	
COMM 3100 Communication Research Methods	3	COMM 4500 Heritage of American Journalism	3
COMM 3110 Comm. Research Methods Lab	1	COMM 4210 Mass Media Practicum II	1
COMM 3525 Feature Writing	3	COMM 3010 Interpersonal Communication	3
General Education	6	Coursework in Minor	6
Coursework in Minor	3	Free Choice Electives	3
<b>Semester Total</b>	<b>16</b>	<b>Semester Total</b>	<b>16</b>

Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.

Summer - Between Junior & Senior Year	
COMM 4295 Internship	1-3
<b>Semester Total</b>	<b>1-3</b>

Senior Year - First Semester		Senior Year - Second Semester	
COMM 4250 Mass Communication Law	3	COMM 4535 Advanced News Reporting	3
COMM Elective*	3	COMM Elective*	3
IGEN 3232 or 3224 or 4224	3	Free Choice Electives	6-7
Coursework in Minor	6	<b>Semester Total</b>	<b>14-15</b>
<b>Semester Total</b>	<b>15</b>		

## Journalism Major, B.S. Degree - 124 hours

- \*Students choose 9-12 hours from the following list: COMM 3530 Photojournalism (3); COMM 3535 Broadcast Journalism (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 adviser.
- 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.
- 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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- This plan is based on a 21-hour minor.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.

**Management Functional Major, B.S.B.A. Degree**

2/2007

This is the recommended program of study for the Management Functional Major, B.S.B.A. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective students should contact the Department of Management and Business Communication for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Second Semester</b>	<b>Hrs.</b>
<b>MATH 1111 College Algebra*</b>	3	ECON 1010 Principles of Macroeconomics*	3
BTE 1210 Essentials of Managing Information*	2	CIS 1605 Business Application Software	2
PSY 1100 General Psychology <b>or</b>		<b>ENGL 1030 Composition II</b>	3
SOC 1800 General Sociology	3	COMM 1000 Public Speaking	3
<b>ENGL 1020 Composition I</b>	3	General Education	6
General Education	3	<b>Semester Total</b>	<b>17</b>
<b>Semester Total</b>	<b>14</b>		
AE 1400 Freshman Seminar**			

<b>Sophomore Year - First Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs.</b>
ACCT 2101 Prin. of Fin. Acct.*	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	<b>HIST 1350 or 1351 or POLS 1510</b>	3
<b>General Education Science (w/lab)</b>	4	General Education	6
General Education	3	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>16</b>		

**Note: Complete all BSBA Admission requirements, take C-BASE, and apply for admission\***

**Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>	<b>Hrs.</b>	<b>Junior Year - Second Semester</b>	<b>Hrs.</b>
FIN 3850 Principles of Finance	3	MGT 3360 Production Operations Management	3
<b>(IBE Block-below)***</b>		MGT 3320 System, Teams, & Organiz. Behavior	3
MGT 3315 Management of Organizations***	3	MGT 3325 Business Communications	3
MKT 3405 Marketing Policy***	3	HRM 3920 Human Resource Management	3
CIS 3630 Management Information Systems***	3	FIN 3801 Business Statistics II	3
IBE Practicum***	3	MGT 3345 International Management	1
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>16</b>

**Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.**

<b>Senior Year - First Semester</b>	<b>Hrs.</b>	<b>Senior Year - Second Semester</b>	<b>Hrs.</b>
MGT 4370 Supply Chain Management	3	ICAP 4357 Org. Policy and Strategy	3
MGT 4310 Total Quality Management	3	MGT 4320 Leading and Managing Teams & Org.	3
MGT 4325 Management Communication	3	Non-Business Electives	3
Non-Business Electives	7	Free Choice Electives (internship recommended)	9
<b>Semester Total</b>	<b>16</b>	<b>Semester Total</b>	<b>15</b>

**Management Functional Major, B.S.B.A. Degree - 124 Hours**

- A minimum 15-hour block of General Education in Math, Written Communication, History or Political Science, and Science must be completed in the first three semesters (45 hours) to take the College BASE exam for General Education Assessment. These courses are designated in **bold italics**. Passing of the C-BASE exam is required for admission to the B.S.B.A. program.
- \*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 1400 (1 hr.) is highly recommended for academic success. AE 1400 counts as a free choice, non-business 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.
- See current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing are dependent upon Planned Placement in math, reading and writing.

**Marketing Functional Major, B.S.B.A. Degree**

2/2007

This is the recommended program of study for the Marketing Functional Major, B.S.B.A. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Marketing and Legal Studies for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Second Semester</b>	<b>Hrs.</b>
<b><i>MATH 1111 College Algebra*</i></b>	3	ECON 1010 Principles of Macroeconomics*	3
BTE 1210 Essentials of Managing Information*	2	CIS 1605 Business Application Software	2
<b><i>ENGL 1020 Composition I</i></b>	3	<b><i>ENGL 1030 Composition II</i></b>	3
PSY 1100 General Psychology <b>or</b>		COMM 1000 Public Speaking	3
SOC 1800 General Sociology	3	General Education	6
General Education	3	<b>Semester Total</b>	<b>17</b>
<b>Semester Total</b>	<b>14</b>		
MKT 1400 Orientation to Marketing**			

<b>Sophomore Year - First Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs.</b>
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	9
<b><i>HIST 1350 or 1351 or POLS 1510</i></b>	3	<b>Semester Total</b>	<b>15</b>
<b><i>General Education Science (w/lab)</i></b>	4	<b>Note: Complete all B.S.B.A. Admission requirements, take C-BASE, and apply for admission*</b>	
<b>Semester Total</b>	<b>16</b>		

**Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>	<b>Hrs.</b>	<b>Junior Year - Second Semester</b>	<b>Hrs.</b>
MKT 3405 Marketing Policy	3	MKT 3480 Consumer Behavior	3
MGT 3315 Management of Organizations	3	MKT 3430 Personal Selling	3
FIN 3801 Business Statistics II	3	MGT 3325 Bus. Communications	3
FIN 3850 Principles of Finance	3	MGT 3360 Production/Operation Management	3
CIS 3630 Management Information Systems	3	Marketing Elective	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	

**Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.**

<b>Senior Year - First Semester</b>	<b>Hrs.</b>	<b>Senior Year - Second Semester</b>	<b>Hrs.</b>
MKT 4460 International Marketing	3	ICAP 4357 Organizational Policy and Strategy	3
MKT 4470 Marketing Research	3	MKT 4490 Marketing Management	3
Marketing Electives***	6	Marketing Electives***	6
Free Choice Electives	5	Free Choice Electives	3
<b>Semester Total</b>	<b>17</b>	<b>Semester Total</b>	<b>15</b>

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

- A minimum 15-hour block of General Education in Math, Written Communication, History or Political Science, and Science must be completed in the first three semesters (45 hours) in order to take the College BASE exam for General Education Assessment. These courses are designated in ***bold italics***. Passing of the C-BASE exam is required for admission to the B.S.B.A. program.
- \*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 (\*).
- \*\*MKT 1400 (1 hr.) is highly recommended for academic success. MKT 1400 counts as a free choice elective.
- \*\*\* Marketing elective classes available are: MKT 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.
- See current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

**Mathematics Major, B.A. Degree**

2/2007

This is the recommended program of study for the Mathematics Major, B.A. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Mathematics and Computer Science for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs.</b>	<b>Freshman Year -Second Semester</b>	<b>Hrs.</b>
<b><i>ENGL 1020 Composition I</i></b>	3	<b><i>ENGL 1030 Composition II</i></b>	3
MATH 1151 Calculus I	5	MATH 1152 Calculus II	5
General Education	6	CS 1100 Computer Programming I	3
<b>Semester Total</b>	<b>14</b>	General Education	5
AE 1400 Freshman Seminar*		<b>Semester Total</b>	<b>16</b>

<b>Sophomore Year - First Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs.</b>
<b><i>HIST 1350 or 1351 or POLS 1510</i></b>	3	<b><i>General Education Science</i></b>	3-4
MATH 2153 Calculus III	3	MATH 2410 Discrete Math	3
MATH 2221 Foundations of Geometry (fall only)	3	General Education	3
Coursework in Minor	3	Coursework in Minor	3
General Education	3	Modern Language Requirement**	3
Modern Language Requirement**	3	<b>Semester Total</b>	<b>15-16</b>
<b>Semester Total</b>	<b>18</b>		

**Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>	<b>Hrs.</b>	<b>Junior Year - Second Semester</b>	<b>Hrs.</b>
MATH 3710 Linear Algebra	3	MATH 3720 Algebraic Structures***	2
Coursework in Minor	3	Coursework in Minor	6
General Education	6	Free Choice Electives	7
Modern Language Requirement**	3	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>15</b>		

**Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.**

<b>Senior Year - First Semester</b>	<b>Hrs.</b>	<b>Senior Year - Second Semester</b>	<b>Hrs.</b>
MATH 4211 Introduction to Topology****	3	IGEN 4233 Sci., Hist., Socio. Impact of Math***	3
Coursework in Minor	3	Upper-Level Electives in MATH or CS	4
Free Choice Electives	9	Coursework in Minor	3
<b>Semester Total</b>	<b>15</b>	Free Choice Electives	5
		<b>Semester Total</b>	<b>15</b>

**Mathematics 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 Bachelor's Degree Requirements section for the B.A. Modern Language requirement. This plan is based on nine hours of modern language.
- \*\*\*Spring only course.
- \*\*\*\*Fall – Odd numbered years
- This plan is based on a 21-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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

## Mathematics Major, B.S. Degree

2/2007

This is the recommended program of study for the Mathematics Major, B.S. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Mathematics and Computer Science for further information or guidance.

Freshman Year - First Semester		Hrs.	Freshman Year - Second Semester		Hrs.
<b>ENGL 1020 Composition I</b>		3	CS 1100 Computer Programming I		3
<b>MATH 1151 Calculus I</b>		5	<b>ENGL 1030 Composition II</b>		3
General Education		6	MATH 1152 Calculus II		5
<b>Semester Total</b>		<b>14</b>	General Education		6
AE 1400 Freshman Seminar*			<b>Semester Total</b>		<b>17</b>

Sophomore Year - First Semester		Hrs.	Sophomore Year - Second Semester		Hrs.
<b>HIST 1350 or 1351 or POLS 1510</b>		3	<b>General Education Science</b>		3-4
MATH 2153 Calculus III		3	MATH 2410 Discrete Math		3
MATH 2221 Foundations of Geometry**		3	CS 1110 Computer Programming II		3
Coursework in Minor		3	General Education		3
General Education		6	Coursework in Minor		3
<b>Semester Total</b>		<b>18</b>	<b>Semester Total</b>		<b>15-16</b>

Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.

Junior Year - First Semester		Hrs.	Junior Year - Second Semester		Hrs.
MATH 3710 Linear Algebra		3	MATH 3720 Algebraic Structures***		2
Upper-Level Elective in MATH or CS		3	Upper-Level Elective in MATH or CS		3
Coursework in Minor		3	Coursework in Minor		6
General Education		6	General Education		3
<b>Semester Total</b>		<b>15</b>	<b>Semester Total</b>		<b>14</b>

Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.

Senior Year - First Semester		Hrs.	Senior Year - Second Semester		Hrs.
Upper-Level Elective in MATH or CS		3	IGEN 4233 The Scientific, Historical, and Sociological Impact of Mathematics***		3
Coursework in Minor		3	Upper-Level Elective in MATH or CS		2
Free Choice Electives		9	Coursework in Minor		3
<b>Semester Total</b>		<b>15</b>	Free Choice Electives		7
			<b>Semester Total</b>		<b>15</b>

## Mathematics Major, B.S. Degree - 124 hours

- \*AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective.
- \*\*Fall only course.
- \*\*\*Spring only course.
- 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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- This plan is based on a 21-hour minor.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

**Mathematics Functional Major, B.S. in Ed. Degree**

2/2007

This is the recommended program of study for the Mathematics Functional Major, B.S.E. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective UCM students should contact the Department of Mathematics and Computer Science for further information or guidance.

<b>Freshman Year - First Semester</b>		<b>Hrs.</b>	<b>Freshman Year - Second Semester</b>		<b>Hrs.</b>
<b><i>MATH 1151 Calculus &amp; Analytic Geometry I</i></b>		5	MATH 1152 Calculus & Analytic Geometry II		5
CS 1100 Computer Programming I		3	PHYS 1101 or 2121 Physics****		4-5
MATH 1850 Orientation Seminar**		0.5	<b><i>ENGL 1030 Composition II</i></b>		3
<b><i>ENGL 1020 Composition I</i></b>		3	<b><i>POLS 1510 American Government</i></b>		3
<b><i>Science General Education: BIOL 1003 or BIOL 1005</i></b>		3	<b>Semester Total</b>		<b>15-16</b>
<b>Semester Total</b>		<b>14.5</b>			
AE 1400 Freshman Seminar*					

<b>Sophomore Year - First Semester</b>		<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>		<b>Hrs.</b>
MATH 2410 Discrete Mathematics		3	EDCI 2100 Foundations of Education & Field Exp.		3
MATH 2153 Calculus & Analytic Geometry II		3	EDCI 2240 Educational Psychology		3
PHYS 1102 or 2122****		4-5	MATH 3720 Algebraic Structures***		2
General Education		6	<b><i>HIST 1350 or 1351 United States History</i></b>		3
<b>Semester Total</b>		<b>16-17</b>	General Education		6
			<b>Semester Total</b>		<b>17</b>

**Take the College BASE for Teachers Exam the semester following the completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>		<b>Hrs.</b>	<b>Junior Year - Second Semester</b>		<b>Hrs.</b>
MATH 2221 Foundations of Geometry**		3	MATH 3221 College Geometry***		3
MATH 3850 Strat. in Teaching Second. Math**		3	ICAP 4233 Sci., Hist., Soc. Impact of Math***		3
MATH 4851 Prob./Stat. for Mid./High Sch. Math**3		3	EDCI 4210 Teaching Reading in Secondary		2
PSY 4230 Adolescent Psychology		3	Upper-Level Elective in Major		3
EDSP 2100 Education of the Exceptional Child <b>or</b>			General Education		5
PSY 4200 Psychology of the Exceptional Child		2	<b>Semester Total</b>		<b>16</b>
General Education		3			
<b>Semester Total</b>		<b>17</b>			

**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.**

<b>Senior Year - First Semester</b>		<b>Hrs.</b>	<b>Senior Year - Second Semester</b>		<b>Hrs.</b>
MATH 4710 Real Number System**		2	MATH 4820 Secondary Field Experience II		1
EDCI 3500 Secondary Teaching & Behav. Mgmt.		3	MATH 4870 Methods of Teaching Math		2
EDCI 3550 Practicum in Secondary Instruction		1	EDCI 4595 Student Teaching Secondary I		5
EDCI 4300 Education Measures & Evaluation		2	ICAP 4468 Student Teaching Secondary II		4
Upper-Level Elective in Major		3	<b>Semester Total</b>		<b>12</b>
General Education		3			
Free Choice Electives		2-3			
<b>Semester Total</b>		<b>16-17</b>			

**Mathematics Functional 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 free choice electives.
- \*\*Fall only course.
- \*\*\*Spring only course.
- \*\*\*\*To gain certification to teach physics, a student must take PHYS 2121 and 2122.
- 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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.



**Mathematics Education Major, B.S. in Ed. Degree**

2/2007

This is the recommended program of study for the Mathematics Education Major, B.S. in Ed. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective UCM students should contact the Department of Mathematics and Computer Science for further information or guidance:

<b>Freshman Year - First Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Second Semester</b>	<b>Hrs.</b>
<b>MATH 1151 Calculus &amp; Analytic Geometry I</b>	5	MATH 1152 Calculus & Analytic Geometry II	5
MATH 1850 Orientation Seminar*	0.5	General Education	3
CS 1100 Computer Programming I	3	<b>ENGL 1030 Composition II</b>	3
<b>ENGL 1020 Composition I</b>	3	<b>HIST 1350 or 1351 U.S. History</b>	3
General Education	3	<b>Semester Total</b>	<b>14</b>
<b>Semester Total</b>	<b>14.5</b>		
AE 1400 Freshman Seminar*			

<b>Sophomore Year - First Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs.</b>
MATH 2221 Foundations of Geometry*	3	MATH 3720 Algebraic Structures****	2
MATH 2410 Discrete Mathematics	3	General Education	6
EDCI 2100 Foundations of Education & Field Exp.	3	Coursework in Minor	6
EDCI 2240 Educational Psychology	3	<b>POLS 1510 American Government</b>	3
<b>General Education Science***</b>	3-4	<b>Semester Total</b>	<b>17</b>
<b>Semester Total</b>	<b>15-16</b>		

**Take the College BASE for Teachers Exam the semester following the completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>	<b>Hrs.</b>	<b>Junior Year - Second Semester</b>	<b>Hrs.</b>
MATH 3850 Strategies in Teaching Sec. Math*	3	ICAP 4233 Sci., Hist, Soc. Impact of Math****	3
MATH 4851 Prob./Stat., Mid./High School Math*	3	EDCI 4210 Teaching Reading in Secondary	2
PSY 4230 Adolescent Psychology	3	EDSP 2100 Ed. of the Exceptional Child <b>or</b>	
General Education	3	PSY 4200 Psy. of the Exceptional Child	2
Coursework in Minor	6	Coursework in Minor	3
<b>Semester Total</b>	<b>18</b>	General Education	6
		<b>Semester Total</b>	<b>16</b>

**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.**

<b>Senior Year - First Semester</b>	<b>Hrs.</b>	<b>Senior Year - Second Semester</b>	<b>Hrs.</b>
MATH 4710 Real Number System*	2	MATH 4820 Secondary Field Experience II	1
EDCI 3500 Sec. Teaching & Behav. Management	3	MATH 4870 Methods of Teaching Math	2
EDCI 3550 Practicum in Secondary Instruction	1	EDCI 4595 Student Teaching Secondary I	5
EDCI 4300 Ed. Measurement & Evaluation	2	ICAP 4468 Student Teaching Secondary II	4
Elective in Major	3	<b>Semester Total</b>	<b>12</b>
Coursework in Minor	3		
General Education	3		
<b>Semester Total</b>	<b>17</b>		

**Mathematics Education Major, B.S. in Ed. Degree - 124.5 hours**

- \*Fall only course.
- \*\*AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective, however, this major does not require free choice electives.
- \*\*\*Student pursuing a B.S. in Ed. must take a biology prefix.
- \*\*\*\*Spring semester only.
- 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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

## Medical Technology Functional Major, B.S. Degree

2/2007

This is the recommended program of study for the Medical Technology Functional Major, B.S. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective UCM students should contact the Department of Biology and Earth Science for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Second Semester</b>	<b>Hrs.</b>
BIOL 1000 Discipline of Biology	1	BIOL 2401 Anatomy & Physiology I w/lab	4
<b>BIOL 1112 Biology II w/lab</b>	4	CHEM 1132 Chemistry II w/lab	5
<b>CHEM 1131 Chemistry I</b>	5	<b>ENGL 1030 Composition II</b>	3
<b>MATH 1111 College Algebra</b>	3	General Education	5
<b>ENGL 1020 Composition I</b>	3	<b>Semester Total</b>	<b>17</b>
<b>Semester Total</b>	<b>16</b>		

<b>Sophomore Year - First Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs.</b>
BIOL 2402 Anatomy & Physiology II w/lab	4	BIOL 2512 Cell Biology	3
BIOL 2511 Genetics w/lab	4	CHEM 3341 Organic Chemistry I w/lab	4
<b>HIST 1350 or 1351 or POLS 1510</b>	3	MATH 1112 College Trigonometry (2) OR	
ET 1020 General Electronics	3	PSY 4520 Statistics for the Behavioral Sci. (3)	2-3
General Education	3	General Education	6
<b>Semester Total</b>	<b>17</b>	<b>Semester Total</b>	<b>15-16</b>

Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.

<b>Junior Year - First Semester</b>	<b>Hrs.</b>	<b>Junior Year - Second Semester</b>	<b>Hrs.</b>
BIOL 4000 Biology Colloquium	1	BIOL 3413 Immunology	3
BIOL 4311 Parasitology w/lab	4	BIOL 3611 Microbiology	4
BIOL 4514 Molecular Biology	3	BIOL 4515 Molecular Biology Lab	2
CHEM 3212 Quantitative Analysis	3	ICAP 4222 Biological Perspective	3
General Education	6	General Education	6
<b>Semester Total</b>	<b>17</b>	<b>Semester Total</b>	<b>18</b>

Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.

<b>Senior Year - First Semester</b>	<b>Hrs.</b>	<b>Senior Year - Second Semester</b>	<b>Hrs.</b>
BIOL 4012 Clinicals	15	BIOL 4012 Clinicals	15
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>

### Medical Technology Functional Major, B.S. Degree – 130-131 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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

## Middle School Education Major, B.S. in Ed. Degree

2/2007

This is a recommended program of study for the Middle School Education (Grades 5-9) Major, B.S. in Ed. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective UCM students should contact the Department of Curriculum and Instruction for further information or guidance.

Freshman Year - First Semester		Freshman Year - Second Semester	
<b>ENGL 1020 Composition I</b>	<b>Hrs.</b> 3	<b>ENGL 1030 Composition II</b>	<b>Hrs.</b> 3
COMM 1000 Public Speaking	3	<b>HIST 1350 or 1351 U.S. History</b>	3
<b>POLS 1510 American Government</b>	3	<b>MATH 1620 Contemporary Math</b>	3
ART 1800, MUS 1210, or THEA 2400	3	<b>General Education Science w/lab</b>	4
Modern Lang. - French, Ger. or Span.	3	T&OE 2000 Technology and Change <b>or</b>	
<b>Semester Total</b>	<b>15</b>	BTE 1210 Essentials of Managing Info.	2-3
AE 1400 Freshman Seminar*		<b>Semester Total</b>	<b>15-16</b>

Sophomore Year - First Semester		Sophomore Year - Second Semester	
EDCI 2100 Foundations of Ed. & Field Exp.	<b>Hrs.</b> 3	Science for Teachers Requirement	<b>Hrs.</b> 3
EDCI 2101 Models of Teaching	2	EDCI 3210 Methods Reading Instruction	3
EDCI 2240 Education Psychology	3	ENGL 2205 or 2220 Literature	3
EDCI 2310 Computer/Technology in Education	2	EDSP 2100 Education of Exceptional Child <b>or</b>	
GEOG 2212 World Geography	3	PSY 4200 Psychology of Exceptional Child	2
MATH 3812 Math in Inst. Mdl. School Cur.**	3*	Teaching Minor	6
<b>Semester Total</b>	<b>16</b>	<b>Semester Total</b>	<b>17</b>

**Take the College BASE for Teachers Exam the semester following the completion of the 15 hour set of General Education courses.**

Junior Year - First Semester		Junior Year - Second Semester	
EDCI 2110 World Diversity & America	<b>Hrs.</b> 3	EDCI 3230 Content Literacy in M.S.	<b>Hrs.</b> 3
EDCI 3220 Teaching Language Arts	3	EDCI 4130 The Middle School	3
EDCI 3440 Literature for the Middle Level	2	PSY 3220 Lifespan Development <b>or</b>	
HED 4310 Drugs & Youth	3	PSY 4230 Psychology of Adolescence	3
HED 4330 First Aid & CPR for Education	1	HED 4320 Teaching Sex Ed. in the School	3
Teaching Minor	6	IGEN 3468 Home/Sch./Comm. Relations	3
<b>Semester Total</b>	<b>18</b>	Teaching Minor	3
		<b>Semester Total</b>	<b>18</b>

**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.**

Senior Year - First Semester		Senior Year - Second Semester	
EDCI 4220 Analysis & Corr. Reading Instr.	<b>Hrs.</b> 2	EDCI 4497 Student Teaching I	<b>Hrs.</b> 6
EDCI 4250 Practicum in Reading	1	EDCI 4498 Student Teaching II	6
EDCI 4340 Tchg. Strategies in Middle School	3	<b>Semester Total</b>	<b>12</b>
EDCI 4300 Education Measurement & Eval.	2		
Special Methods Class for Minor Area	2-3		
Teaching Minor	6		
<b>Semester Total</b>	<b>16-17</b>		

## Middle School Education 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.
- \*\*Students selecting a math minor must contact the math adviser before taking MATH 3812.
- 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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- 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, 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.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

**Music Major, B.A. Degree**

2/2007

This is the recommended program of study for the Music Major, B.A. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Music for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Second Semester</b>	<b>Hrs.</b>
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
<b>ENGL 1020 Composition I</b>	3	MUS 1121 Aural Training I	1
MUS 1225 Music of the World's Cultures	3	<b>ENGL 1030 Composition II</b>	3
Modern Language Requirement**	3	<b>General Education Math</b>	3
<b>Semester Total</b>	<b>14</b>	Modern Language Requirement**	3
AE 1400 Freshman Seminar*		<b>Semester Total</b>	<b>15</b>

<b>Sophomore Year - First Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs.</b>
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 1112 Theory II	3	MUS 2111 Theory III	3
MUS 1122 Aural Training II	1	MUS 2121 Aural Training III	1
MUS 2221 Intro. to Music Lit. I	2	MUS 2222 Intro. to Music Lit. II	2
<b>HIST 1350 or 1351 or POLS 1510</b>	3	<b>General Education Science</b>	3-4
General Education	3	Course in Minor	3
Modern Language Requirement**	3	General Education	3
<b>Semester Total</b>	<b>16</b>	<b>Semester Total</b>	<b>16-17</b>

**Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>	<b>Hrs.</b>	<b>Junior Year - Second Semester</b>	<b>Hrs.</b>
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
<b>Semester Total</b>	<b>16.5</b>	<b>Semester Total</b>	<b>15.5-16.5</b>

**Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.**

<b>Senior Year - First Semester</b>	<b>Hrs.</b>	<b>Senior Year - Second Semester</b>	<b>Hrs.</b>
Major Instrument or Voice, 3000 Level	1.5	Major Instrument or Voice, 3000 Level	1.5
Elective in Music	3	Course in Minor	3
Course in Minor	3	General Education	3
General Education	3	Free Choice Elective	7
Free Choice Elective	5	<b>Semester Total</b>	<b>14.5</b>
<b>Semester Total</b>	<b>15.5</b>		

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

- \*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 two modern language courses and ENGL 2220 for General Education Literature.
- 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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- This plan is based on a 21-hour minor.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

## Music Functional Major, B.M. Degree

2/2007

This is the recommended program of study for the Music Functional Major, B.M. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Music for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Second Semester</b>	<b>Hrs.</b>
MUS 1000 Recital Attendance	0	MUS 1000 Recital Attendance	0
MUS 1100 Fund. of Music or Free Choice Elec.	3	Major Instrument or Voice, 1000 Level	2
Major Instrument or Voice, 1000 Level	2	Major Large Ensemble	1
Major Large Ensemble	1	MUS 1111 Theory I	3
(Piano)	(1)	MUS 1121 Aural Training	1
<b>ENGL 1020 Composition I</b>	3	(Piano)	(1)
<b>General Education Science</b>	3-4	<b>ENGL 1030 Composition II</b>	3
General Education	3	MUS 1225 Music of World's Cultures	3
<b>Semester Total</b>	<b>15-17</b>	General Education	3
AE 1400 Freshman Seminar*		<b>Semester Total</b>	<b>16-17</b>
<b>Sophomore Year - First Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs.</b>
MUS 1000 Recital Attendance	0	MUS 1000 Recital Attendance	0
Major Large Ensemble	1	Major Large Ensemble	1
Major Instrument or Voice, 1000 Level	2	Major Instrument or Voice, 1000 Level	2
(Piano)	(1)	(Piano)	(1)
MUS 1112 Theory II	3	MUS 2111 Theory III	3
MUS 1122 Aural Training II	1	MUS 2121 Aural Training III	1
MUS 2400 Fundamentals of Conducting	2	Emphasis Area Electives	3
Emphasis Area Electives	3	General Education	6
<b>HIST 1350 or HIST 1351 or POLS 1510</b>	3	<b>Semester Total</b>	<b>16-17</b>
<b>General Education Math</b>	3		
<b>Semester Total</b>	<b>18-19</b>		

Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.

<b>Junior Year - First Semester</b>	<b>Hrs.</b>	<b>Junior Year - Second Semester</b>	<b>Hrs.</b>
MUS 1000 Recital Attendance	0	MUS 1000 Recital Attendance	0
Major Instrument or Voice, 3000 Level	3	Major Instrument or Voice, 3000 Level	3
MUS 2112 Theory IV	3	MUS 3212 Music History 1800-Present	3
MUS 2122 Aural Training IV	1	Emphasis Area Electives	6
MUS 3211 Music History to 1800	3	General Education	3
Emphasis Area Electives	3	<b>Semester Total</b>	<b>15</b>
General Education	3		
<b>Semester Total</b>	<b>16</b>		

Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.

<b>Senior Year - First Semester</b>	<b>Hrs.</b>	<b>Senior Year - Second Semester</b>	<b>Hrs.</b>
MUS 1000 Recital Attendance	0	MUS 1000 Recital Attendance	0
MUS 4125 Form and Analysis	3	Major Instrument or Voice, 3000 Level	1.5
Major Instrument or Voice, 3000 Level	3	Senior Recital	1
Emphasis Area Electives	5-9	Emphasis Area Electives	7-9
General Education	3	General Education	5
<b>Semester Total</b>	<b>14-18</b>	<b>Semester Total</b>	<b>14.5-16.5</b>

## Music Functional Major, B.M. 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.
- Emphases available: Performance, Music Technology, Jazz-Commercial Music, Piano Pedagogy.
- 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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

**Music Education Functional Major (Instrumental Option), B.M.E. Degree**

2/2007

This is the recommended program of study for the Music Education Functional Major (Instrumental Option), B.M.E. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Music for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Second Semester</b>	<b>Hrs.</b>
MUS 1000 Recital Attendance	0	MUS 1000 Recital Attendance	0
(MUS 1100 Fundamentals of Music)	(3)	Major Large Instrumental Ensemble	1
Major Large Instrumental Ensemble	1	Major Instrument, 1000 Level	1
Major Instrument, 1000 Level	1	MUS 1111 Theory I	3
(Piano)	(1)	MUS 1121 Aural Training I	1
Instrument Techniques Class: (see list)	1	(Piano)	(1)
<b>ENGL 1020 Composition I</b>	3	Instrument Techniques Class: (see list)	1
<b>General Education Math</b>	3	<b>ENGL 1030 Composition II</b>	3
<b>POLS 1510 American Government</b>	3	MUS 1225 Music of World's Cultures	3
<b>Semester Total</b>	<b>12-16</b>	<b>General Education Science</b>	3-4
AE 1400 Freshman Seminar*		<b>Semester Total</b>	<b>16-18</b>
<b>Sophomore Year - First Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs.</b>
MUS 1000 Recital Attendance	0	MUS 1000 Recital Attendance	0
Major Large Instrumental Ensemble	1	Major Large Instrumental Ensemble	1
Major Instrument, 1000 Level	1	Major Instrument, 1000 Level	1
Instrument Techniques Class: (see list)	1	Instrument Techniques Class: (see list)	(1)
(Piano)	(1)	(Piano)	3
MUS 1112 Theory II	3	MUS 2111 Theory III	1
MUS 1122 Aural Training II	1	MUS 2121 Aural Training III	3
HIST 1350 or HIST 1350	3	EDCI 2100 Foundations of Education & Field Exp.	3
General Education	7	EDCI 2240 Educational Psychology	3
<b>Semester Total</b>	<b>17-18</b>	General Education	3
		<b>Semester Total</b>	<b>17-18</b>

**Take the College BASE for Teachers Exam the semester following the completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>	<b>Hrs.</b>	<b>Junior Year - Second Semester</b>	<b>Hrs.</b>
MUS 1000 Recital Attendance	0	MUS 1000 Recital Attendance	0
Major Large Instrumental Ensemble	1	Major Large Instrumental Ensemble	1
Major Instrument, 3000 Level	1.5	Major Instrument, 3000 Level	1.5
Instrument Techniques Class: (see list)	1	Instrument Techniques Class: (see list)	1
MUS 2112 Theory IV	3	MUS 4115 Instrumentation	3
MUS 2122 Aural Training IV	1	MUS 3212 Music History 1800-Present	3
MUS 3211 Music History to 1800	3	MUS 3420 Instrumental Conducting	3
MUS 2400 Fundamentals of Conducting	2	MUS 3306 Methods of Teaching Instrum. Mus.	3
MUS 3308 Marching Band Techniques	1	MUS 4381 Jazz Pedagogy	2
PSY 4230 Psychology of Adolescence	3	<b>Semester Total</b>	<b>17.5</b>
General Education	3		
<b>Semester Total</b>	<b>19.5</b>		

**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.**

<b>Senior Year - First Semester</b>	<b>Hrs.</b>	<b>Senior Year - Second Semester</b>	<b>Hrs.</b>
MUS 1000 Recital Attendance	0	MUS 4310 Methods of Teaching Music	2
Major Large Instrumental Ensemble	1	MUS 4350 Secondary Field Experience II	1
Major Instrument, 3000 Level	1.5	EDCI 4595 Student Teaching Secondary I	5
Instrument Tech Class: (see list)	1	ICAP 4468 Student Teaching Secondary II	4
EDCI 3500 Sec. Teaching & Behavioral Management	3	<b>Semester Total</b>	<b>12</b>
EDCI 3550 Practicum in Secondary Instruction	1		
EDCI 4210 Teaching Reading in Sec. School	2		
EDCI 4300 Educational Measurement & Evaluation	2		
MUS 1601 Voice Class I	1		
PSY 4200 Psychology of Exceptional Children <b>or</b>			
EDSP 2100 Education of the Exceptional Child	2		
General Education	3		
<b>Semester Total</b>	<b>17.5</b>		

**Music Education Functional Major (Instrumental Option), B.M.E. Degree – 129.5 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.
- Emphases available: Performance, Music Technology, Jazz-Commercial Music, Piano Pedagogy.
- 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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.

**Music Education Functional Major (Vocal Option), B.M.E Degree**

2/2007

This is the recommended program of study for the Music Education Major (Vocal Option), B.M.E. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective UCM students should contact the Department of Music for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Second Semester</b>	<b>Hrs.</b>
MUS 1000 Recital Attendance	0	MUS 1000 Recital Attendance	0
(MUS 1100 Fundamentals of Music)	(3)	Major Large Vocal Ensemble	1
Major Large Vocal Ensemble	1	MUS 1610 Voice 1	1
MUS 1610 Voice 1	1	MUS 1111 Theory I	3
(Piano)	(1)	MUS 1121 Aural Training I	1
<b>ENGL 1020 Composition I</b>	3	(Piano)	(1)
MUS 1225 Music of the World's Cultures	3	<b>ENGL 1030 Composition II</b>	3
<b>General Education Science</b>	3-4	<b>General Education Math</b>	3
<b>Semester Total</b>	<b>12-16</b>	<b>POLS 1510 American Government</b>	3
AE 1400 Student Development Seminar *		General Education	3
		<b>Semester Total</b>	<b>18-19</b>

<b>Sophomore Year - First Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs.</b>
MUS 1000 Recital Attendance	0	MUS 1000 Recital Attendance	0
Major Large Vocal Ensemble	1	Major Large Vocal Ensemble	1
MUS 1610 Voice 1	1	MUS 1610 Voice 1	1
MUS 2400 Fundamentals of Conducting	2	(Piano)	(1)
(Piano)	(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 Intro. to Music Literature II	2
MUS 2221 Intro. to Music Literature I	2	MUS 2632 Diction for Singers	2
<b>HIST 1350 or 1351 US History</b>	3	EDCI 2100 Foundations of Education	3
General Education	3	EDCI 2240 Educational Psychology	3
<b>Semester Total</b>	<b>16-17</b>	MUS 3410 Choral Conducting	2
		<b>Semester Total</b>	<b>18-19</b>

**Take the College BASE for Teachers Exam the semester following the completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>	<b>Hrs.</b>	<b>Junior Year - Second Semester</b>	<b>Hrs.</b>
MUS 1000 Recital Attendance	0	MUS 1000 Recital Attendance	0
Major Large Vocal Ensemble	1	Major Large Vocal Ensemble	1
MUS 3610 Voice II	1.5	MUS 3610 Voice II	1.5
MUS 2112 Theory IV	3	MUS 3212 Music History 1800-Present	3
MUS 2122 Aural Training IV	1	MUS 4230 Choral Literature	2
MUS 3211 Music History to 1800	3	EDCI 4210 Teaching Reading in Sec. Schools	2
MUS 3415 Choral Techniques	2	PSY 4230 Psychology of Adolescence	3
MUS 1615 Opera Theatre <b>or</b>		General Education	5
MUS 1620 Music Theatre Practicum I	1	<b>Semester Total</b>	<b>17.5</b>
MUS 3305 Methods of Teach. Elem. School Music	3		
General Education	3		
<b>Semester Total</b>	<b>18.5</b>		

**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.**

<b>Senior Year - First Semester</b>	<b>Hrs.</b>	<b>Senior Year - Second Semester</b>	<b>Hrs.</b>
MUS 1000 Recital Attendance	0	MUS 4310 Methods of Teaching Music	2
Major Large Vocal Ensemble	1	MUS 4350 Secondary Field Experience II	1
MUS 3610 Voice II	1.5	EDCI 4595 Student Teaching Secondary I	5
MUS 4130 Choral Arranging	2	ICAP 4468 Student Teaching Secondary II	4
MUS 4320 Methods of Teach. Middle School Music	2	<b>Semester Total</b>	<b>12</b>
EDCI 3500 Sec. Teaching & Behavioral Mgt.	3		
EDCI 3550 Practicum in Secondary Instruction	1		
PSY 4200 Psychology of Exceptional Children <b>or</b>			
EDSP 2100 Education of the Exceptional Child	2		
EDCI 4300 Educational Measurement & Eval.	2		
General Education	3		
<b>Semester Total</b>	<b>17.5</b>		

**Music Education Functional Major (Vocal Option), B.M.E. Degree – 129.5 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.
- 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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.

**Nursing Functional Major, B. S. Degree**

2/2007

This is the recommended program of study for the Nursing Functional Major, B.S. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective UCM students should contact the Department of Nursing for further information or guidance. Below is a typical program.

<b>Freshman Year - First Semester</b>		<b>Hrs.</b>	<b>Freshman Year - Second Semester</b>		<b>Hrs.</b>
+*	<b><i>CHEM 1104 Intro to Sciences: Chemistry</i></b>	4	+BIOL	2401 Anatomy & Physiology I	4
+*	SOC 1800 General Sociology	3	+*	PSY 1100 General Psychology	3
*	<b><i>ENGL 1020 Composition I</i></b>	3		<b><i>ENGL 1030 Composition II</i></b>	3
*	<b><i>Mathematical Reasoning</i></b>	3	*	<b><i>HIST 1350 or 1351</i></b> (To meet State Legis. req.)	3
++	NUR 1700 Intro. to Professional Nursing	2	*	Humanities	3
	<b>Semester Total</b>	<b>15</b>		<b>Semester Total</b>	<b>16</b>

<b>Sophomore Year - First Semester</b>		<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>		<b>Hrs.</b>
+BIOL	2402 Anatomy & Physiology II	4	+BIOL	3611 Microbiology*	4
+D&N	3340 Nutrition	3	*	Humanities	3
*	Cultural Interaction	3	**	Nursing Elective	2
*	Humanities	3	*	Oral Communication	3
*	Technology	2-3	*	Personal Interaction	3
	<b>Semester Total</b>	<b>15-16</b>		<b>Semester Total</b>	<b>15</b>

**Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.**

**-- ENTER NURSING PROGRAM --**

<b>Junior Year - First Semester</b>		<b>Hrs.</b>	<b>Junior Year - Second Semester</b>		<b>Hrs.</b>
>	NUR 3305 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. Nrsg 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	2	NUR	4013 Health Policy & Ethics	2
NUR	3211 Pharmacological Therapeutics Lab	1		<b>Semester Total</b>	<b>15</b>
NUR	3412 Technical Nursing Applications I	1			
	<b>Semester Total</b>	<b>16</b>			

**Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.**

**-- TO KANSAS CITY LAST TWO SEMESTERS --**

<b>Senior Year - First Semester</b>		<b>Hrs.</b>	<b>Senior Year - Second Semester</b>		<b>Hrs.</b>
ICAP	4111 Socio-Econ Factors Impacting Health	3	NL/SL	4600 Con. of Nrsg. Ldship. in Mgmt. C/MH	6
NUR	4410 Concepts of Maternal-Child Nursing	3	NL/SL	4601 Con. of Nrsg. Ldship. in Mgmt. C/MH Practicum	4
NUR	4411 Con. of Maternal-Child Nursing Pract.	2			3
NUR	4510 Concepts of Adult/Older Ad. Nursing II	3	NUR	4602 Synthesis of Nursing Concepts	1
NUR	4511 Con. of Ad./Old. Ad Nrsg. II Pract.	3	NUR	4603 Nursing Residency	2
NUR	4512 Adv. Tech. & Pharm. Nursing Apps.	2		<b>Semester Total</b>	<b>15</b>
	<b>Semester Total</b>	<b>16</b>			

**Nursing Functional Major, B.S. Degree - 124 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).
- >May be taken prior to entry into the program or first semester in the Nursing program.
- \*General Education Courses.
- \*\*Nursing electives may be taken anytime after sophomore standing is achieved. One Nursing elective course is required from the following for Nursing Majors: NUR 2020 Health: The Women's Prospective; NUR 4020 Grief and Loss; NUR 4030 Human Sexuality; NUR 4405 Aging of Self and Others; NUR 4040 Nursing Informatics.
- NUR-ELO 3000 is one to three credit hours for remediation in junior year of Nursing program; NUR-ELO 4000 is one to three credit hours for remediation in senior year of Nursing program; may be repeated.
- 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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.



**B.S. Occupational Education Functional Major**

This is the recommended program of study for the B.S. Occupational Education Functional Major Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Career and Technology Education for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Second Semester</b>	<b>Hrs.</b>
<b>MATH 1111 College Algebra or</b>	3	SPCM 1000 Public Speaking	3
<b>MATH 1620 Contemporary Math or</b>		T&OE 3060 Technical Report Writing	3
<b>MATH 1159 Pre-Calculus Mathematics</b>		EDCL 2240 Educational Psychology	3
T&OE 2000 Technology and Change	3	<b>HIST 1350 or 1351 U.S. History or</b>	
<b>ENGL 1020 Composition I</b>	3	<b>POLS 1510 American Government</b>	3
General Teaching Specialty Area	3	General Teaching Specialty Area	6
Gen. Ed. Personal Interaction	3	<b>Semester Total</b>	<b>18</b>
<b>Semester Total</b>	<b>15</b>		

<b>Sophomore Year - First Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs.</b>
<b>ENGL 1030 Composition II</b>	3	T&OE 4110 Philosophy of Occ. Ed. & Training	3
<b>SOC 1800 General Sociology or</b>	3	<b>BIOL 1003 Intro. to Science/Ecology or</b>	3
<b>PSY 1100 General Psychology</b>		<b>CHEM 1103 Intro. to Science/Chemistry or</b>	
T&OE 4140 New Teacher Institute	3	<b>PHYS 1103 Intro. to Science/Physics</b>	
General Teaching Specialty Area	6	ENGL 2220 World Masterpieces	3
<b>Semester Total</b>	<b>15</b>	General Teaching Specialty Area	6
		<b>Semester Total</b>	<b>15</b>

**Take the College BASE for Teachers Exam the semester following the completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>	<b>Hrs.</b>	<b>Junior Year - Second Semester</b>	<b>Hrs.</b>
CTE 4145 Curriculum Construction in CTE	3	CTE 4160 Methods of Teaching CTE	3
GRAPH 4570 Computer Graphics	3	EDCL 3500 Secondary Tch./Behavioral Mgt.	3
<b>BIOL 1004 Intro. to Sci./Eco. w/lab or</b>		IGEN 3116 Creative Problem Solving	3
<b>CHEM 1104 Intro. to Sci./Chem.w/lab or</b>		ART 1800 Ideas and the Visual Arts <b>or</b>	
<b>PHYS 1104 Intro. to Sci./Phys. w/lab</b>	4	MUS 1210 Experiencing Music <b>or</b>	
General Teaching Specialty Area	6	THEA 1210 Theater in Western Civilization	3
<b>Semester Total</b>	<b>16</b>	General Teaching Specialty Area	3
		<b>Semester Total</b>	<b>15</b>

**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.**

<b>Senior Year - First Semester</b>	<b>Hrs.</b>	<b>Senior Year - Second Semester</b>	<b>Hrs.</b>
T&OE 4150 Vocational Guidance	3	T&OE 4022 Occ. Admin./Teaching Internship	3
GEOG 2212 World Geography	3	T&OE 4180 Adult Programs	3
EDCL 2110 World Diversity and America	3	LANG Any Modern Foreign Language	3
General Teaching Specialty Area	6	General Teaching Specialty Area	6
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>

**B.S. Occupational Education Major - 124 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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

**Occupational Safety and Health Functional Major, B.S. Degree**

2/2007

This is the recommended program of study for the Occupational Safety and Health Functional Major, B.S. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective UCM students should contact the Department of Safety Sciences for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Second Semester</b>	<b>Hrs.</b>
<b><i>MATH 1111 College Algebra</i></b>	3	PSY 1100 General Psychology	3
<b><i>ENGL 1020 Composition I</i></b>	3	<b><i>CHEM 1104 Intro. to Sciences: Chemistry</i></b>	4
General Education	9	<b><i>ENGL 1030 Composition II</i></b>	3
SAFE 1000 Exploring Safety Sciences	1	General Education	3
<b>Semester Total</b>	<b>16</b>	MATH 1131 Calculus for Business & Economics	3
AE 1400 Freshman Seminar*		<b>Semester Total</b>	<b>16</b>

<b>Sophomore Year - First Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs.</b>
SAFE 3000 Accident Causation & Prevention	3	PHYS 1102 College Physics II	4
SAFE 3120 Introduction to Industrial Hygiene	3	CHEM 2650 Elementary Organic & Biochemistry	5
PHYS 1101 College Physics I	4	SAFE 3430 Industrial Hazard Control	3
<b><i>HIST 1350 or 1351 or POLS 1510</i></b>	3	General Education	3
<b>Semester Total</b>	<b>13</b>	<b>Semester Total</b>	<b>15</b>

**Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>	<b>Hrs.</b>	<b>Junior Year - Second Semester</b>	<b>Hrs.</b>
BIOL 2401 Anatomy & Physiology I	4	SAFE 4430 Workers Compensation Legislation	3
SAFE 4425 Safety & Health Legis. & Standards	3	SAFE 4000 Ergonomics in Safety & Health	3
General Education	9	SAFE 4140 Safety & Health Lab	3
<b>Semester Total</b>	<b>16</b>	SAFE 4020 Legal Aspects of Safety and Health	3
		Free Choice Elective	3
		<b>Semester Total</b>	<b>15</b>

**Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.**

<b>Summer – Between Junior &amp; Senior Year</b>	<b>Hrs.</b>
SAFE 4990 Internship in Safety Sciences**	6
<b>Semester Total</b>	<b>6</b>

<b>Senior Year - First Semester</b>	<b>Hrs.</b>	<b>Senior Year - Second Semester</b>	<b>Hrs.</b>
SAFE 4010 Accident Investigation	3	SAFE 4435 Environmental Compliance	3
SAFE 4035 Safety Program Management	3	SAFE 4360 Introduction to Systems Safety	3
SAFE 4850 Industrial Fire Protection	3	ICAP 4115 Safety & Health Management	3
SAFE 4940 Introductory Quantitative Methods	3	Free Choice Electives	3
Free Choice Elective	3	<b>Semester Total</b>	<b>12</b>
<b>Semester Total</b>	<b>15</b>		

**Occupational Safety and Health Functional Major, B.S. Degree - 124 hours**

- \*AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective.
- \*\*SAFE 4990 Internship in Safety Sciences (6 hrs) is taken the summer after the junior year.
- 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 C-BASE exam. These courses are indicated on the plan in ***bold italics***.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

**Photography Major, B.S. Degree**

1/2006

**Areas of Emphasis: Portrait, Digital, Media, Technical, Commercial**

This is the recommended program of study for the Photography Major, B.S. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective UCM students should contact the School of Technology for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Second Semester</b>	<b>Hrs.</b>
PHOT 1210 Elementary Photography	3	PHOT 1215 Photographer's Forum	.5
PHOT 1211 Technique & Critique	1	PHOT 2200 Color Transparency	3
General Education	6	PHOT 2210 Introduction to Studio Techniques	3
<b>General Education Math</b>	3	<b>ENGL 1030 Composition II</b>	3
<b>ENGL 1020 Composition I</b>	3	<b>HIST 1350 or 1351 or POLS 1510</b>	3
<b>Semester Total</b>	<b>16</b>	<b>General Education Science</b>	3-4
AE 1400 Freshman Seminar*		<b>Semester Total</b>	<b>15.5-16.5</b>

<b>Sophomore Year - First Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs.</b>
PHOT 3230 Electronic Imaging	3	PHOT 1215 Photographer's Forum	.5
PHOT 3250 Portrait	3	PHOT 2220 Materials & Processes	3
General Education	6-7	General Education	6
Coursework in Minor	3	Coursework in Minor	6
<b>Semester Total</b>	<b>15-16</b>	<b>Semester Total</b>	<b>15.5</b>

**Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>	<b>Hrs.</b>	<b>Junior Year - Second Semester</b>	<b>Hrs.</b>
PHOT 2270 Zone System	3	Photography Specialty Area Electives	6
Photography Specialty Area Elective	3	General Education	6
General Education	6	PHOT 1215 Photographer's Forum**	1
Coursework in Minor	3	Coursework in Minor	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>16</b>

**Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.**

<b>Senior Year - First Semester</b>	<b>Hrs.</b>	<b>Senior Year - Second Semester</b>	<b>Hrs.</b>
PHOT 4200 Color Imaging	3	PHOT 1215 Photographer's Forum	1
Photography Specialty Area Elective	3	PHOT 4252 Portfolio	3
Free Choice Electives***	3	Photography Specialty Area Elective	3
Coursework in Minor	6	IGEN 3116 Creative Problem Solving	3
<b>Semester Total</b>	<b>15</b>	Free Choice Electives***	5
		<b>Semester Total</b>	<b>15</b>

**Photography Major, B.S. Degree - 124 hours**

- \*AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective.
- \*\***Mid-Program Review** is required before the conclusion of the 3rd Forum.
- \*\*\*The above plan is based on a 21-hour minor. The number of required free choice electives will vary based on minor chosen.
- Forty hours of upper level credits must be earned to meet graduation requirements. Student should make appropriate choices in minor, major electives, and free choice electives coursework.
- 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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

**Physical Education Functional Major (Corporate Fitness), B.S. Degree**

2/2007

This is the recommended program of study for the Physical Education Functional Major (Corporate Fitness), B.S. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Health and Human Performance for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Second Semester</b>	<b>Hrs.</b>
PE 1100 Orientation to Physical Education	1	<b>General Education Science</b>	3-4
PE 1206 Lifetime Fitness	3	<b>ENGL 1030 Composition II</b>	3
PE 1120 Microcomputer App. in Physical Education	2	<b>General Education Math</b>	3
General Education	6	PE 1204 Stress Management	1
<b>ENGL 1020 Composition I</b>	3	General Education	6
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>16-17</b>
AE 1400 Freshman Seminar**			

<b>Sophomore Year - First Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs.</b>
HED 1350 Responding to Emergencies	3	ACCT 2101 Principles of Financial Accounting	3
PE 2320 A & T Weight Training	1	PE 4110 History & Philosophy of Physical Ed.	2
PE 2303 A & T Aerobic Conditioning	2	PE 2850 Foundations Exercise Physiology	3
PE 2800 Human Anatomy	3	PE 3610 Care & Prevention of Injuries	2
PSY 1100 General Psychology***	3	<b>HIST 1350 or 1351 or POLS 1510</b>	3
General Education	6	General Education	3
<b>Semester Total</b>	<b>18</b>	<b>Semester Total</b>	<b>16</b>

**Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>	<b>Hrs.</b>	<b>Junior Year - Second Semester</b>	<b>Hrs.</b>
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 Program & Implementation	3	General Education	3
<b>Semester Total</b>	<b>14</b>	Free Choice Electives	3
		<b>Semester Total</b>	<b>15</b>

**Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.**

<b>Senior Year - First Semester</b>	<b>Hrs.</b>	<b>Senior Year - Second Semester</b>	<b>Hrs.</b>
HED 4310 Drugs and Youth	3	PE 4765 Internship****	2-4
MKT 3430 Personal Selling	3	Free Choice Electives	10-12
PE 4850 Assessment & Eval. Fitness/Wellness	3	<b>Semester Total</b>	<b>14</b>
General Education	3		
Free Choice Electives	3		
<b>Semester Total</b>	<b>15</b>		

**Physical Education (Corporate Fitness) Major, B.S. Degree - 124 hours**

- \*\*AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective.
- \*\*\*PSY 1100 is a required general education course.
- \*\*\*\*The internship can also be taken the semester after all other coursework is completed.
- 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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

**Physical Education Functional Major (Exercise Science), B.S. Degree**

2/2007

This is the recommended program of study for the Physical Education Functional Major (Exercise Science), B.S. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Health and Human Performance for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Second Semester</b>	<b>Hrs.</b>
PE 1100 Orientation to Physical Education	1	PE 2800 Human Anatomy	3
PE 1120 Microcomputer App. in Physical Education	2	<b>ENGL 1030 Composition II</b>	3
PE 1206 Lifetime Fitness	3	<b>General Education Math</b>	3
SOC 1800 General Sociology***	3	General Education	5-6
<b>CHEM 1104 Intro. to Sci. Chem. (w/lab)***</b>	4	<b>Semester Total</b>	<b>14-15</b>
<b>ENGL 1020 Composition I</b>	3		
<b>Semester Total</b>	<b>16</b>		
AE 1400 Freshman Seminar**			

<b>Sophomore Year - First Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs.</b>
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	<b>HIST 1350 or 1351 or POLS 1510</b>	3
<b>Semester Total</b>	<b>15</b>	General Education	3
		<b>Semester Total</b>	<b>17</b>

**Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>	<b>Hrs.</b>	<b>Junior Year - Second Semester</b>	<b>Hrs.</b>
D&N 3340 Nutrition	3	CHEM 2650 Elemen. Org. & Bio. (5 hrs) <b>or</b>	3-5
HED 4310 Drugs and Youth	3	PHYS 1104 Intro. to Sci.: Physics (4 hrs) <b>or</b>	
PE 3800 Kinesiology	3	EDCI 1310 Physics for Teachers (3 hrs)	
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
General Education	3	PE 4740 Legal Liability in F/W, PE Settings	2
<b>Semester Total</b>	<b>18</b>	PSY 4520 Stats for the Behavioral Sciences	3
		General Education	3
		<b>Semester Total</b>	<b>15-17</b>

**Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.**

<b>Senior Year - First Semester</b>	<b>Hrs.</b>	<b>Senior Year - Second Semester</b>	<b>Hrs.</b>
HED 4300 Nutrition & Human Performance	2	PE 4765 Internship****	2-4
General Education	3	Free Choice Electives	5-8
PE 4850 Assessment & Evaluation Fitness/Wellness	3	General Education	3
Free Choice Electives	9	<b>Semester Total</b>	<b>12-13</b>
<b>Semester Total</b>	<b>17</b>		

**Physical Education Major (Exercise Science), B.S. Degree - 124 hours**

- \*\*AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective.
- \*\*\*SOC 1800 is a required general education course, fulfilling three hours of Social Sciences. CHEM 1104, BIOL 2401, BIOL 2402 are required general education courses, fulfilling seven hours of Life and Physical Sciences.
- \*\*\*\*The internship can also be taken the semester after all other coursework is completed.
- 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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

**Physical Education (K-12 Certification) Functional Major, B.S. Degree**

2/2007

This is the recommended program of study for the Physical Education (K - 12 Education) Functional Major, B.S. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Health and Human Performance for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Second Semester</b>	<b>Hrs.</b>
PE 1120 Microcomputer Applications in PE	2	<b>General Education Science</b>	4
<b>ENGL 1020 Composition I</b>	3	<b>ENGL 1030 Composition II</b>	3
<b>HIST 1350 or 1351 US History</b>	3	<b>General Education Math</b>	3
PE 1100 Orientation to Physical Education	1	COMM 1000 Public Speaking	3
PE 1206 Lifetime Fitness	3	BTE 1210 Essentials of Managing Information <b>or</b>	
General Education	3	LIS 1600 Information Resources	2
<b>Semester Total</b>	<b>15</b>	General Education	3
AE 1400 Freshman Seminar**		<b>Semester Total</b>	<b>18</b>

<b>Sophomore Year - First Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs.</b>
EDCI 2100 Foundations of Ed. & Field Experience	3	POLS 1510 American Government	3
EDCI 2240 Educational Psychology	3	PE 2303 Anal. & Teaching of Aerobic Conditioning	2
PE 1450 Growth & Development in Elementary PE	3	PE 2850 Foundations of Exercise Physiology	3
PE 2240 Anal. & Teaching of Individ. & Dual Activ.	3	PE 3280 Analysis & Teaching of Team Activities	3
PE 2800 Human Anatomy	3	PSY 4230 Psychology of Adolescence	3
PE 3300 Teaching of Dance	2	General Education	3
<b>Semester Total</b>	<b>17</b>	<b>Semester Total</b>	<b>17</b>

**Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>	<b>Hrs.</b>	<b>Junior Year - Second Semester</b>	<b>Hrs.</b>
EDSP 2100 Education of the Exceptional Child <b>or</b>		PE 3315 Analysis & Teaching of Outdoor Activities	1
PSY 4200 Psychology of Exceptional Child	2	PE 4340 Adapted Physical Education	3
PE 2290 Anal. & Teaching of Innovative Activities	2	PE 4840 Social Aspects of Physical Activity	2
PE 2320 Analysis & Teaching of Weight Training	1	PE 4740 Legal Liability in F/W, PE Settings	2
PE 3430 Creative Dance & Rhythms for Elem. Sch.	2	PE 4760 Physical Education Curriculum	2
PE 3610 Care & Prevention of Injuries	2	General Education	6
PE 3800 Kinesiology	3	<b>Semester Total</b>	<b>16</b>
PE 3850 Motor Learning and Control	3		
PE 4110 History & Philosophy of Physical Ed.	2		
<b>Semester Total</b>	<b>17</b>		

**Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.**

<b>Senior Year - First Semester</b>	<b>Hrs.</b>	<b>Senior Year - Second Semester</b>	<b>Hrs.</b>
EDCI 4210 Teaching of Reading in Sec. School	2	EDCI 4495 Student Teaching Elementary I	5
PE 3450 Tech. of Teach. PE Act. in Elem. Schools	3	ICAP 4468 Student Teaching Secondary II	4
PE 3460 Tech. of Teach. PE Act. Mid./High Schools	3	PE 4880 Methods of Teaching Phys. Education	2
PE 4390 Evaluation Procedures in Phys. Education	3	PE 4885 Secondary Field Experience	1
PE 4830 Psychological Aspects in Phys. Education	2	<b>Semester Total</b>	<b>12</b>
EDCI 3500 Sec. Teaching and Behavioral Mgmt.	3		
EDCI 3550 Practicum in Secondary Instruction	1		
<b>Semester Total</b>	<b>17</b>		

**Physical Education (K-12 Certification) Functional Major, B.S. Degree - 129 hours**

- \*\*AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective.
- 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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

**Physics Functional Major, B.A. Degree**

2/2007

This is the recommended program of study for the Physics Functional Major, B.A. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Chemistry and Physics for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs</b>	<b>Freshman Year -Second Semester</b>	<b>Hrs</b>
<b><i>CHEM 1131 General Chemistry I</i></b>	5	CHEM 1132 General Chemistry II	5
<b><i>ENGL 1020 Composition I</i></b>	3	MATH 1152 Calculus & Analytical Geometry II	5
<b><i>MATH 1151 Calc. &amp; Analytical Geom. I</i></b>	5	PHYS 2121 University Physics I	5
PHYS 1101 College Physics I* or		General Education	2
General Education	3-4	<b>Semester Total</b>	<b>17</b>
<b>Semester Total</b>	<b>16-17</b>		
AE 1400 Freshman Seminar**			

<b>Sophomore Year - First Semester</b>	<b>Hrs</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs</b>
<b><i>ENGL 1030 Composition II</i></b>	3	CS 1100 Introduction to Computing I	3
MATH 2153 Calculus & Analytical Geometry III	3	<b><i>HIST 1350 or 1351 or POLS 1510</i></b>	3
PHYS 2122 University Physics II	5	PHYS 3080 Advanced Physics Lab	1
PHYS 3211 Analytical Mechanics I	2	PHYS 3511 Modern Physics I	3
Modern Language Requirement***	3	PHYS 4212 Analytical Mechanics II	3
<b>Semester Total</b>	<b>16</b>	Modern Language Requirement ***	3
		<b>Semester Total</b>	<b>16</b>

**Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>	<b>Hrs</b>	<b>Junior Year - Second Semester</b>	<b>Hrs</b>
PHYS 3080 Advanced Physics Lab	1	PHYS 3012 Electric Measurements Lab	2
Departmentally Approved Physics Elective****	3	PHYS 3311 Electric Circuit Theory	3
Modern Language Requirement***	3	MATH 3151 Differential Equations	3
General Education	9	General Education	6
<b>Semester Total</b>	<b>16</b>	<b>Semester Total</b>	<b>14</b>

**Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.**

<b>Senior Year - First Semester</b>	<b>Hrs</b>	<b>Senior Year - Second Semester</b>	<b>Hrs</b>
PHYS 3080 Advanced Physics Lab	1	PHYS 4411 Thermodynamics	3
General Education	6	Departmentally Approved Physics Elective****	3
Free Choice Electives	7	General Education	3
<b>Semester Total</b>	<b>14</b>	Free Choice Electives	5-6
		<b>Semester Total</b>	<b>14-15</b>

**Physics Functional Major, B.A. Degree - 124 hours**

- \*Students whose high school preparation is inadequate should take PHYS 1101 during their first year at Central Missouri.
- \*\*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 nine hours of modern language courses.
- \*\*\*\*Departmentally approved electives can be selected from the following courses: PHYS 2020, PHYS 4312, PHYS 3512, PHYS 3611, 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.
- 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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

## Physics Functional Major, B.S. Degree

2/2007

This is the recommended program of study for the Physics Functional Major, B.S. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Chemistry and Physics for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs.</b>	<b>Freshman Year -Second Semester</b>	<b>Hrs.</b>
<b>ENGL 1020 Composition I</b>	3	CHEM 1132 General Chemistry II	5
<b>CHEM 1131 General Chemistry I</b>	5	MATH 1152 Calc. & Analytical Geometry II	5
<b>MATH 1151 Calc. &amp; Analytical Geometry I</b>	5	PHYS 2121 University Physics I	5
PHYS 1101 College Physics I or Gen. Ed*	3-4	General Education	2
<b>Semester Total</b>	<b>16-17</b>	<b>Semester Total</b>	<b>17</b>
AE 1400 Freshman Seminar**			

<b>Sophomore Year - First Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs.</b>
<b>ENGL 1030 Composition II</b>	3	MATH 3151 Differential Equations <b>or</b>	
<b>HIST 1350 or 1351 or POLS 1510</b>	3	MATH 3160 Advanced Applied Calculus	3
MATH 2153 Calc. & Analytical Geometry III	5	PHYS 3080 Advanced Physics Lab	1
PHYS 2122 University Physics II	2	PHYS 3511 Modern Physics	3
PHYS 3211 Analytical Mechanics I	3	PHYS 4212 Analytical Mechanics II	3
<b>Semester Total</b>	<b>16</b>	General Education	6
		<b>Semester Total</b>	<b>16</b>

**Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>	<b>Hrs.</b>	<b>Junior Year - Second Semester</b>	<b>Hrs.</b>
PHYS 3080 Advanced Physics Lab	1	PHYS 3012 Electric Measurements Lab	2
PHYS 3512 Modern Physics II	3	PHYS 3311 Electric Circuit Theory	3
Departmentally Approved Physics Elective***	3	PHYS 4312 Electricity & Magnetism	3
General Education	9	General Education	6
<b>Semester Total</b>	<b>16</b>	<b>Semester Total</b>	<b>14</b>

**Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.**

<b>Senior Year - First Semester</b>	<b>Hrs.</b>	<b>Senior Year - Second Semester</b>	<b>Hrs.</b>
PHYS 3080 Advanced Physics Lab	1	PHYS 4411 Thermodynamics	3
Departmentally Approved Physics Elective***	3	General Education	3
General Education	3	Free Choice Electives****	8-9
Free Choice Electives****	7	<b>Semester Total</b>	<b>14-15</b>
<b>Semester Total</b>	<b>14</b>		

## Physics Functional Major, B.S. Degree - 124 hours

- \*Students whose high school preparation is inadequate should take PHYS 1101 during their first year at Central Missouri.
- \*\*AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective.
- \*\*\*Departmentally approved electives can be selected from the following courses: PHYS 2020, PHYS 3611, PHYS 4512, PHYS 4513, PHYS 4711.
- \*\*\*\*For those considering graduate school in physics, the department *strongly* recommends that most free electives be Physics/Math/Computer Science/Chemistry courses.
- 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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.



**Physics Functional Major, B.S. in Ed. Degree**

2/2007

This is the recommended program of study for the Physics Functional Major, B.S. in Ed. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Chemistry and Physics for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs</b>	<b>Freshman Year -Second Semester</b>	<b>Hrs</b>
<b>ENGL 1020 Composition I</b>	3	CHEM 1132 General Chemistry II	5
<b>CHEM 1131 General Chemistry I</b>	5	PHYS 2121 University Physics I	5
<b>MATH 1151 Calculus &amp; Analytic Geom. I</b>	5	MATH 1152 Calculus & Analytical Geom. II	5
(PHYS 1101)*	(4)	General Education	3
General Education	0-3	<b>Semester Total</b>	<b>18</b>
<b>Semester Total</b>	<b>16-17</b>		
AE 1400 Freshman Seminar**			

<b>Sophomore Year - First Semester</b>	<b>Hrs</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs</b>
PHYS 2122 University Physics II	5	PHYS 3511 Modern Physics I	3
MATH 2153 Calc. & Analytical Geom. III	3	BIOL 1004 Introduction to Sciences: Ecology	4
EDCI 2100 Foundations Ed. & Field Exp.	3	EASC 1004 Intro. to Sci. Geology, 4, <b>or</b>	
EDCI 2240 Educational Psychology	3	EASC 3114 Meteorology, 3	3-4
<b>ENGL 1030 Composition II</b>	3	CS 1100 Introduction to Computing I	3
<b>Semester Total</b>	<b>17</b>	PHYS 3080 Advanced Physics Lab	1
		<b>HIST 1350 or 1351 U.S. History</b>	3
		<b>Semester Total</b>	<b>17-18</b>

**Take the College BASE for Teachers Exam the semester following the completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>	<b>Hrs</b>	<b>Junior Year - Second Semester</b>	<b>Hrs</b>
PSY 4230 Psychology of Adolescence	3	EDCI 4210 Teaching Reading in Secondary	2
BIOL 1111 Biology I	4	EDCI 4300 Ed. Measurement & Evaluation	2
T&OE 2000 Technology & Change	3	Departmentally Approved Elective***	3
General Education	5	PHYS 3080 Advanced Physics Lab	1
<b>Semester Total</b>	<b>16</b>	POLS 1510 American Government	3
		General Education	3-6
		<b>Semester Total</b>	<b>14-17</b>

**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.**

<b>Senior Year - First Semester</b>	<b>Hrs</b>	<b>Senior Year - Second Semester</b>	<b>Hrs</b>
EDCI 3500 Secondary Teaching & Behavioral Mgt.	3	CHEM 4011 Methods of Teaching Physical Sci.	3
EDCI 3550 Practicum in Secondary Instruction	1	EDCI 4595 Student Teaching Secondary I	5
EDSP 2100 Education of the Exceptional Child <b>or</b>		ICAP 4468 Student Teaching Secondary II	4
PSY 4200 Psychology of Exceptional Child	2	<b>Semester Total</b>	<b>12</b>
Departmentally Approved Electives***	5		
General Education	3		
<b>Semester Total</b>	<b>14</b>		

**Physics Functional Major, B.S. in Ed. Degree - 124 hours**

- \*Students whose high school preparation is inadequate should take PHYS 1101 during their first year at Central Missouri.
- \*\*AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective.
- \*\*\*Departmentally approved 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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

**Political Science Major, B.A. Degree**

2/2007

This is the recommended program of study for the Political Science Major, B.A. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Political Science and Geography for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Second Semester</b>	<b>Hrs.</b>
<b><i>ENGL 1020 Composition I</i></b>	3	<b><i>ENGL 1030 Composition II</i></b>	3
POLS 1500 Introduction to Political Science	3	<b><i>General Education Math</i></b>	3
General Education	9	<b><i>POLS 1510 American Government</i></b>	3
<b>Semester Total</b>	<b>15</b>	General Education	6
AE 1400 Freshman Seminar*		<b>Semester Total</b>	<b>15</b>

<b>Sophomore Year - First Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs.</b>
<b><i>General Education Science</i></b>	3-4	POLS 2520 Comparative Government	3
POLS 2580 Public Law & Judicial Process	3	POLS 2530 International Relations	3
POLS Elective	3	General Education	6
General Education	6	Modern Language Requirement**	3
Coursework in Minor	3	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>18</b>		

**Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>	<b>Hrs.</b>	<b>Junior Year - Second Semester</b>	<b>Hrs.</b>
POLS 3540 Survey of Political Theory	3	POLS 3560 Research Methods	3
Upper-Level POLS Elective	3	Upper-Level POLS Electives	3
Coursework in Minor	6	Coursework in Minor	6
Modern Language Requirement**	3	Modern Language Requirement**	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>

**Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.**

<b>Senior Year - First Semester</b>	<b>Hrs.</b>	<b>Senior Year - Second Semester</b>	<b>Hrs.</b>
Upper-Level POLS Elective	3	Upper-Level POLS Elective	3
POLS 4570 Public Administration	3	Coursework in Minor	3
General Education	3	Free Choice Electives	9
Coursework in Minor	3	<b>Semester Total</b>	<b>15</b>
Free Choice Electives	4		
<b>Semester Total</b>	<b>16</b>		

**Political Science Major, B.A. Degree – 124 hours**

- \*AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective.
- \*\*See the current catalog for B.A. Degree fulfillment options. This plan is based on nine hours of modern language.
- 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 C-BASE exam. These courses are indicated on the plan in ***bold italics***.
- This plan is based on a 21-hour minor.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

**Political Science Major, B.S. Degree**

2/2007

This is the recommended program of study for the Political Science Major, B.S. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Political Science and Geography for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs.</b>	<b>Freshman Year -Second Semester</b>	<b>Hrs.</b>
<b><i>ENGL 1020 Composition I</i></b>	3	<b><i>ENGL 1030 Composition II</i></b>	3
POLS 1500 Introduction to Political Science	3	<b><i>General Education Math</i></b>	3
General Education	9	<b><i>POLS 1510 American Government</i></b>	3
<b>Semester Total</b>	<b>15</b>	General Education	6
AE 1400 Freshman Seminar*		<b>Semester Total</b>	<b>15</b>

<b>Sophomore Year - First Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs.</b>
<b><i>General Education Science</i></b>	3-4	POLS 2520 Comparative Government	3
POLS 2580 Public Law & Judicial Process	3	POLS 2530 International Relations	3
POLS Elective	3	General Education	6
General Education	6	Coursework in Minor	3
<b>Semester Total</b>	<b>15-16</b>	<b>Semester Total</b>	<b>15</b>

**Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>	<b>Hrs.</b>	<b>Junior Year - Second Semester</b>	<b>Hrs.</b>
POLS 3540 Survey of Political Theory	3	POLS 3560 Research Methods	3
Upper-Level POLS Elective	3	Upper-Level POLS Electives	3
Coursework in Minor	6	Coursework in Minor	6
General Education	3	Free Choice Electives	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>

**Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.**

<b>Senior Year - First Semester</b>	<b>Hrs.</b>	<b>Senior Year - Second Semester</b>	<b>Hrs.</b>
Upper-Level POLS Electives	3	Upper-Level POLS elective	3
POLS 4570 Public Administration	3	Coursework in Minor	3
General Education	3	Free Choice Electives	12
Coursework in Minor	3	<b>Semester Total</b>	<b>18</b>
Free Choice Electives	4		
<b>Semester Total</b>	<b>16</b>		

**Political Science Major, B.S. Degree – 124 hours**

- \*AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective.
- 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 C-BASE exam. These courses are indicated on the plan in ***bold italics***.
- This plan is based on a 21-hour minor.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

**Psychology Major, B.A. Degree**

1/2006

This is the recommended program of study for the Psychology Major, B.A. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective UCM students should contact the Department of Psychology for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Second Semester</b>	<b>Hrs.</b>
PSY 1100 General Psychology	3	<b>ENGL 1030 Composition II</b>	3
<b>ENGL 1020 Composition I</b>	3	<b>General Education Math</b>	3
Modern Language Requirement*	3	General Education	6
<b>General Education Science</b>	4	Modern Language Requirement*	3
General Education	2	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>15</b>		
AE 1400 Freshman Seminar**			

<b>Sophomore Year - First Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs.</b>
PSY 2110 Research Design & Analysis I	4	PSY 2120 Research Design & Analysis II	4
General Education	6	PSY 2130 Learning	3
<b>HIST 1350 or 1351 or POLS 1510</b>	3	General Education	6
Modern Language Requirement*	3	Coursework in Minor	3
<b>Semester Total</b>	<b>16</b>	<b>Semester Total</b>	<b>16</b>

**Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>	<b>Hrs.</b>	<b>Junior Year - Second Semester</b>	<b>Hrs.</b>
PSY 3130 Physiological Psychology	4	PSY 3340 Social Psychology	3
PSY 3220 Lifespan Development	3	PSY 4440 Abnormal Psychology	3
Coursework in Minor	3	Coursework in Minor	6
General Education	3	General Education	3
Free Choice Elective	3	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>16</b>		

**Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.**

<b>Senior Year - First Semester</b>	<b>Hrs.</b>	<b>Senior Year - Second Semester</b>	<b>Hrs.</b>
PSY 4310 Theories of Personality	3	PSY 4110 Systems of Psychology	3
Coursework in Minor	6	Coursework in Minor	3
Free Choice Electives	7	General Education	3
<b>Semester Total</b>	<b>16</b>	Free Choice Electives	6
		<b>Semester Total</b>	<b>15</b>

**Psychology 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 three modern language courses.
- \*\*AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective.
- The above degree plan is based on a 21-hour minor.
- A 15-hour block of General Education in Math, Written Communication, History or Political Science, and Science must be completed in the first four semesters (60 hours) to take the C-BASE exam for General Education Assessment. These courses are designated in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

**Psychology Major, B.S. Degree**

This is the recommended program of study for the Psychology Major, B.S. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective UCM students should contact the Department of Psychology for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Second Semester</b>	<b>Hrs.</b>
PSY 1100 General Psychology	3	General Education	8
<b>ENGL 1020 Composition I</b>	3	<b>General Education Science</b>	4
<b>General Education Math</b>	3	<b>ENGL 1030 Composition II</b>	3
General Education	6	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>15</b>		
AE 1400 Freshman Seminar*			

<b>Sophomore Year - First Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs.</b>
PSY 2110 Research Design & Analysis I	4	PSY 2120 Research Design & Analysis II	4
General Education	6	PSY 2130 Learning	3
<b>HIST 1350 or 1351 or POLS 1510</b>	3	Coursework in Minor	3
Free Choice Electives	3	General Education	6
<b>Semester Total</b>	<b>16</b>	<b>Semester Total</b>	<b>16</b>

**Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>	<b>Hrs.</b>	<b>Junior Year - Second Semester</b>	<b>Hrs.</b>
PSY 3130 Physiological Psychology	4	PSY 3340 Social Psychology	3
PSY 3220 Lifespan Development	3	PSY 4440 Abnormal Psychology	3
Coursework in Minor	3	Coursework in Minor	6
General Education	3	Free Choice Electives	3
Free Choice Electives	3	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>16</b>		

**Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.**

<b>Senior Year - First Semester</b>	<b>Hrs.</b>	<b>Senior Year - Second Semester</b>	<b>Hrs.</b>
PSY 4310 Theories of Personality	3	PSY 4110 Systems of Psychology	3
Coursework in Minor	6	Coursework in Minor	3
Required Electives in Psychology**	6	Free Choice Electives	7
<b>Semester Total</b>	<b>15</b>	Required Electives in Psychology**	3
		<b>Semester Total</b>	<b>16</b>

**Psychology Major, B.S. Degree - 124 hours**

- \*AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective.
- \*\*See the current catalog for a list of courses that fulfill required electives for the degree.
- The above degree plan is based on a 21-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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

**Public Relations Major, B.S. Degree**

2/2007

This is the recommended program of study for the Public Relations Major, B.S. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Communication for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs</b>	<b>Freshman Year - Second Semester</b>	<b>Hrs</b>
<b><i>ENGL 1020 Composition I</i></b>	3	<b><i>ENGL 1030 Composition II</i></b>	3
COMM 1100 Intro. to Communication Studies	1	COMM 1000 Public Speaking	3
COMM 1110 Communication Skills Lab	1	<b><i>General Education MATH</i></b>	3
COMM 1200 Intro. to Mass Communication	3	General Education	6
General Education	8	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>16</b>		

<b>Sophomore Year - First Semester</b>	<b>Hrs</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs</b>
COMM 1520 Elements of News Reporting	3	COMM 2100 Intro. to Communication Theory	3
COMM 2620 Public Relations	3	COMM 2110 Intro. to Comm. Theory Lab	1
<b><i>HIST 1350 or 1351 or POLS 1510</i></b>	3	COMM 2520 Copy Editing & Layout	3
General Education	6	COMM 3010 Interpersonal Communication	3
<b>Semester Total</b>	<b>15</b>	<b><i>General Education Science</i></b>	3-4
		Coursework for Minor	3
		<b>Semester Total</b>	<b>16-17</b>

**Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>	<b>Hrs</b>	<b>Junior Year - Second Semester</b>	<b>Hrs</b>
COMM 3100 Communication Research Methods	3	COMM 3000 Film Appreciation	3
COMM 3110 Resources & Methods Lab	1	COMM 4685 Case Studies in Public Relations	2
COMM 4250 Mass Communication Law	3	Approved Major Elective	3
Coursework for Minor	3	Coursework for Minor	3
COMM 4680 Publicity	3	Upper-Level Free Choice Electives	3
Upper-Level Free Choice Electives	4	<b>Semester Total</b>	<b>14</b>
<b>Semester Total</b>	<b>17</b>		

**Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.**

<b>Senior Year - First Semester</b>	<b>Hrs</b>	<b>Senior Year - Second Semester</b>	<b>Hrs</b>
COMM 4510 Magazine Design & Production	3	COMM 4690 Campaigns	3
IGEN 3224 or IGEN 3232 or IGEN 4224	3	Coursework for Minor	6
Coursework for Minor	6	Upper-Level Free Choice Electives	6
Approved Major Elective	3	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>15</b>		

**Public Relations Major, B.S. Degree - 124 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 C-BASE exam. These courses are indicated on the plan in ***bold italics***.
- 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 adviser for requirements.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

## Safety Management Major, B.S. Degree

2/2007

This is the recommended program of study for the Safety Management Major, B.S. Degree at University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Safety Sciences for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Second Semester</b>	<b>Hrs.</b>
SAFE 3000 Accident Causation & Prevention	3	PSY 1100 General Psychology	3
<b>MATH 1111 College Algebra</b>	3	<b>CHEM 1104 Intro. to Sciences: Chemistry</b>	4
<b>ENGL 1020 Composition I</b>	3	<b>ENGL 1030 Composition II</b>	3
General Education	6	General Education	6
SAFE 1000 Exploring Safety Sciences	1	<b>Semester Total</b>	<b>16</b>
<b>Semester Total</b>	<b>16</b>		
AE 1400 Freshman Seminar*			

<b>Sophomore Year - First Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs.</b>
SAFE 4020 Legal Aspects of Safety & Health	3	SAFE 4510 Loss Control	3
SAFE 3120 Introduction to Industrial Hygiene	3	SAFE 4520 Safety & Risk Analysis	3
PHYS 1103 Introduction to the Sciences: Physics	3	SAFE 3430 Industrial Hazard Control	3
<b>HIST 1350 or 1351 or POLS 1510</b>	3	General Education	3
Minor Coursework	3	Minor Coursework	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>

**Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>	<b>Hrs.</b>	<b>Junior Year - Second Semester</b>	<b>Hrs.</b>
SAFE 3070 Psychology & Philosophy of Safety	3	SAFE 4430 Workers Compensation Legislation	3
SAFE 4000 Ergonomics in Safety & Health	3	SAFE 4215 Transportation & Storage of Haz. Mat.	3
SAFE 4425 Safety & Health Legislation & Standards	3	Minor Coursework	3
SAFE 4140 Safety & Health Laboratory	3	General Education	3
General Education	3	Free Choice Elective***	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>

**Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.**

<b>Summer – Between Junior &amp; Senior Year</b>	<b>Hrs.</b>
SAFE 4990 Internship in Safety Sci. & Tech. <b>or</b> SAFE 4910 Special Projects in Safe Sci. & Tech.**	3
<b>Semester Total</b>	<b>3</b>

<b>Senior Year - First Semester</b>	<b>Hrs.</b>	<b>Senior Year - Second Semester</b>	<b>Hrs.</b>
SAFE 4010 Accident Investigation	3	SAFE 4435 Environmental Compliance	3
SAFE 4035 Safety Program Management	3	SAFE 4360 Intro. to Systems Safety	3
SAFE 4940 Introductory Quantitative Methods	3	ICAP 4115 Safety & Health Management	3
General Education	3	Minor Coursework***	6
Minor Coursework***	3	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>15</b>		

## Safety Management Major, B.S. Degree - 125 hours

- \*AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective.
- \*\*SAFE 4990 or SAFE 4910 should be taken during the summer.
- \*\*\*This plan is based on an 18-hour minor. The number of free choice electives will depend on the hours required in the chosen minor.
- SAFE 4990 Internship in Safety Sciences - 3 - 6 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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

## Social Studies Functional Major, B.S. in Ed. Degree

2/2007

This is the recommended program of study for the Social Studies Functional Major, B.S. in Education Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of History and Anthropology for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Second Semester</b>	<b>Hrs.</b>
<b><i>HIST 1350 History of the U.S. to 1877</i></b>	3	HIST 1351 History of the U.S. from 1877	3
SOC 1800 General Sociology	3	ECON 1010 Principles of Macroeconomics	3
<b><i>General Education Science (or Math)</i></b>	3-4	POLS 1510 American Government	3
<b><i>ENGL 1020 Composition I</i></b>	3	<b><i>General Education Math (or Science)</i></b>	3-4
General Education	3	<b><i>ENGL 1030 Composition II</i></b>	3
<b>Semester Total</b>	<b>15-16</b>	<b>Semester Total</b>	<b>15-16</b>
AE 1400 Freshman Seminar*			

<b>Sophomore Year - First Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs.</b>
GEOG 2212 World Geography	3	POLS 2511 State Government	3
HIST 2401 History of the Early Modern World	3	HIST 2400 History of the Early World <b>or</b>	3
EDCI 2100 Found. of Education & Field Experience	3	HIST 2402 History of the Modern World***	
EDCI 2240 Educational Psychology	3	Upper-Level Elective in GEOG for Major**	3
General Education	3	General Education	8
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>17</b>

**Take the College BASE for Teachers Exam the semester following the completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>	<b>Hrs.</b>	<b>Junior Year - Second Semester</b>	<b>Hrs.</b>
SOSC 3010 Writing in the Social Sciences	3	HIST Upper-Level Electives****	6
HIST Upper-Level Electives****	6	Upper-Level Elective in SOC or ANTH	3
PSY 4200 Psychology of Exceptional Children	2	PSY 4230 Psychology of Adolescence	3
EDCI 4300 Educational Measurement & Evaluation	2	EDCI 4210 Teaching of Reading in the Sec. School	2
General Education	3	General Education	3
<b>Semester Total</b>	<b>16</b>	<b>Semester Total</b>	<b>17</b>

**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.**

<b>Senior Year - First Semester</b>	<b>Hrs.</b>	<b>Senior Year - Second Semester</b>	<b>Hrs.</b>
SOSC 4050 The Social Studies	3	SOSC 4074 Methods of Teaching Social Studies	2
Upper-Level Electives in Major**	9	SOSC 4020 Secondary Field Experience II	1
EDCI 3500 Sec. Teaching and Behavioral Mgt.	3	EDCI 4595 Student Teaching Secondary I	5
EDCI 3550 Practicum in Secondary Instruction	1	ICAP 4468 Student Teaching Secondary II	4
<b>Semester Total</b>	<b>16</b>	<b>Semester Total</b>	<b>12</b>

## Social Studies Functional 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.
- \*\*Students choose upper-level electives from at least two of the following prefixes: GEOG, HIST, POLS, SOC, ANTH, or ECON.
- \*\*\*If selected, HIST 2402 will fulfill 3 hours of General Education Division II Area D.
- \*\*\*\*See catalog for a list of History classes to fulfill the upper-level electives in American History and World History requirements.
- 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 advisers.
- 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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.



**Social Work Functional Major, B.S.W. Degree**

2/2007

This is the recommended program of study for the Social Work Functional Major, B.S.W. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective UCM students should contact the Department of Sociology and Social Work for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Second Semester</b>	<b>Hrs.</b>
<b><i>ENGL 1020 Composition I</i></b>	3	SOC 1800 General Sociology	3
General Education	8	<b><i>ENGL 1030 Composition II</i></b>	3
<b><i>General Education Math</i></b>	3	<b><i>HIST 1350 or 1351 or POLS 1510</i></b>	3
<b>Semester Total</b>	<b>14</b>	General Education	6
AE 1400 Freshman Seminar*		Free Choice Electives	2
		<b>Semester Total</b>	<b>17</b>

<b>Sophomore Year - First Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs.</b>
<b><i>General Education Science</i></b>	3-4	SOWK 2600 Intro. to Social Welfare & Social Work	3
PSY 1100 General Psychology	3	BIOL 2010 Human Biology	3
General Education	3	General Education	6
Free Choice Electives	6	Free Choice Electives	5
<b>Semester Total</b>	<b>15-16</b>	<b>Semester Total</b>	<b>17</b>

**Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>	<b>Hrs.</b>	<b>Junior Year - Second Semester</b>	<b>Hrs.</b>
SOWK 2611 Social WorkFld. Observ. & Partic.	2	SOWK 3610 Social Work Practice: Basic Skills	3
SOWK 3600 Introduction to Social Work Practice	3	SOWK 4612 Human Behavior in Social Environ. II	3
SOWK 3612 Human Behav. in Social Environ. I	3	SOWK 3625 Populations at Risk	3
SOC 2805 Introduction to Social Research	3	SOWK 3605 Meth. of Inq. & Eval. for Soc. Workers	3
SOC 3825 Race & Ethnic Relations	3	PSY 4440 Abnormal Psychology	3
Free Choice Elective	2	Free Choice Electives	2
<b>Semester Total</b>	<b>16</b>	<b>Semester Total</b>	<b>12</b>
		<b>Apply for Admission to Social Work Program</b>	

**Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.**

<b>Senior Year - First Semester</b>	<b>Hrs.</b>	<b>Senior Year - Second Semester</b>	<b>Hrs.</b>
SOWK 4610 Special Topics in Social Work <b>or</b>		SOWK 4660 Field Practicum	9
SOWK 4620 Social Services & the Elderly	3	ICAP 4478 Integ. Social Work Practicum Seminar	3
SOWK 4630 SW Practice: Inter. with Fam. & Grps.	3	<b>Semester Total</b>	<b>12</b>
SOWK 4640 SW Practice: Inter. w/Comm. & Orgs.	3		
SOWK 4650 Social Policy & Economic Justice	3		
Free Choice Electives	3		
<b>Semester Total</b>	<b>15</b>		

**Social Work Functional Major, B.S.W. Degree - 124 hours**

- \*AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective.
- 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 C-BASE exam. These courses are indicated on the plan in ***bold italics***.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

**Sociology Major, B.A. Degree**

2/2007

This is the recommended program of study for the Sociology Major, B.A. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective UCM students should contact the Department of Sociology and Social Work for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Second Semester</b>	<b>Hrs.</b>
SOC 1800 General Sociology	3	SOC Elective (1000-2000 Level)	3
<b>ENGL 1020 Composition I</b>	3	General Education	6
Modern Language Requirement*	3	<b>ENGL 1030 Composition II</b>	3
<b>General Education Math</b>	3	Modern Language Requirement*	3
General Education	3	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>15</b>		
AE 1400 Freshman Seminar**			

<b>Sophomore Year - First Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs.</b>
SOC 2805 Introduction to Social Research	3	SOC 3885 Globalization and the Future	3
<b>HIST 1350 or 1351 or POLS 1510</b>	3	Coursework in Minor	3
General Education	3	<b>General Education Science</b>	3-4
Coursework in Minor	3	General Education	6
Modern Language Requirement*	3	<b>Semester Total</b>	<b>15-16</b>
<b>Semester Total</b>	<b>15</b>		

**Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>	<b>Hrs.</b>	<b>Junior Year - Second Semester</b>	<b>Hrs.</b>
SOC 3800 History of Social Thought	3	SOC 4860 Contemporary Social Thought	3
SOC 3870 Personality and Society	3	SOC Electives	6
Coursework in Minor	3	Coursework in Minor	6
General Education	6-7	General Education	2
<b>Semester Total</b>	<b>15-16</b>	<b>Semester Total</b>	<b>17</b>

**Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.**

<b>Senior Year - First Semester</b>	<b>Hrs.</b>	<b>Senior Year - Second Semester</b>	<b>Hrs.</b>
SOC 4890 Sociological Investigations	3	SOC Elective	3
SOC 4895 Sociology Capstone Seminar	3	Coursework in Minor	3
Coursework in Minor	3	Free Choice Electives	10
Free Choice Electives	6	<b>Semester Total</b>	<b>16</b>
<b>Semester Total</b>	<b>15</b>		

**Sociology 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 three modern language courses.
- \*\*AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective.
- The above degree plan is based on a 21-hour minor. Number of free choice electives will depend on minor chosen.
- A minimum 15-hour block of General Education in Math, Written Communication, History or Political Science, and Science must be completed in the first four semesters (60 hours) to take the C-BASE exam for General Education Assessment. These courses are designated in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.

**Sociology Major, B.S. Degree**

2/2007

This is the recommended program of study for the Sociology Major, B.S. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective UCM students should contact the Department of Sociology and Social Work for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Second Semester</b>	<b>Hrs.</b>
SOC 1800 General Sociology	3	SOC Elective (1000-2000 level)	3
<b>ENGL 1020 Composition I</b>	3	<b>ENGL 1030 Composition II</b>	3
General Education	6	<b>HIST 1350 or 1351 or POLS 1510</b>	3
<b>General Education Math</b>	3	General Education	6
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>
AE 1400 Freshman Seminar*			

<b>Sophomore Year - First Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs.</b>
SOC 2805 Introduction to Social Research	3	SOC 3885 Globalization and the Future	3
Coursework in Minor	3	Coursework in Minor	3
<b>General Education Science</b>	3-4	General Education	6-7
General Education	6	Free Choice Electives	3
<b>Semester Total</b>	<b>15-16</b>	<b>Semester Total</b>	<b>15-16</b>

**Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>	<b>Hrs.</b>	<b>Junior Year - Second Semester</b>	<b>Hrs.</b>
SOC 3800 History of Social Thought	3	SOC 4860 Contemporary Social Thought	3
SOC 3870 Personality and Society	3	SOC Elective	6
Coursework in Minor	6	Coursework in Minor	3
General Education	3	Free Choice Elective	4
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>16</b>

**Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.**

<b>Senior Year - First Semester</b>	<b>Hrs.</b>	<b>Senior Year - Second Semester</b>	<b>Hrs.</b>
SOC 4890 Methods of Social Research	3	SOC Electives	9
SOC 4895 Sociology Capstone Seminar	3	Coursework in Minor	3
Coursework in Minor	3	Free Choice Elective	4
Free Choice Electives	7	<b>Semester Total</b>	<b>16</b>
<b>Semester Total</b>	<b>16</b>		

**Sociology Major, B.S. Degree - 124 hours**

- \*AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective.
- The above degree plan is based on a 21-hour minor. The number of free choice electives required will depend on the minor chosen.
- 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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.

## Spanish Major, B.A. Degree

2/2007

This is the recommended program of study for the Spanish Major, B.A. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Modern Languages for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs.</b>	<b>Freshman Year -Second Semester</b>	<b>Hrs.</b>
<b><i>ENGL 1020 Composition I</i></b>	3	<b><i>ENGL 1030 Composition II</i></b>	3
SPAN 2601 Intermediate Spanish I	3	<b><i>General Education Math</i></b>	3
General Education	8-9	SPAN 2602 Intermediate Spanish II	3
<b>Semester Total</b>	<b>14-15</b>	General Education	3
AE 1400 Freshman Seminar*		Coursework in Minor	3
		<b>Semester Total</b>	<b>15</b>

<b>Sophomore Year - First Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs.</b>
<b><i>HIST 1350 or 1351 or POLS 1510</i></b>	3	<b><i>General Education Science</i></b>	3-4
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	3	General Education	3
Coursework in Minor	3	Coursework in Minor	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15-16</b>

**Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>	<b>Hrs.</b>	<b>Junior Year - Second Semester</b>	<b>Hrs.</b>
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
Coursework in Minor	3	Coursework in Minor	6
General Education	6	General Education	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>

**Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.**

<b>Senior Year - First Semester</b>	<b>Hrs.</b>	<b>Senior Year - Second Semester</b>	<b>Hrs.</b>
Elective in SPAN 4000-Level	3	Elective in SPAN 4000-Level	3
Coursework in Minor	6	Coursework in Minor	3
Free Choice Electives	6	General Education	3
<b>Semester Total</b>	<b>15</b>	Free Choice Electives	4
		<b>Semester Total</b>	<b>13</b>

### Spanish Major, B.A. Degree - 124 hours

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

- \*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.
- 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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- **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.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

## Spanish Major, B.S. Degree

2/2007

This is the recommended program of study for the Spanish Major, B.S. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Modern Languages for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs.</b>	<b>Freshman Year -Second Semester</b>	<b>Hrs.</b>
<b><i>ENGL 1020 Composition I</i></b>	3	<b><i>ENGL 1030 Composition II</i></b>	3
SPAN 2601 Intermediate Spanish I	3	<b><i>General Education Math</i></b>	3
General Education	8-9	SPAN 2602 Intermediate Spanish II	3
<b>Semester Total</b>	<b>14-15</b>	Coursework in Minor	3
AE 1400 Freshman Seminar*		General Education	3
		<b>Semester Total</b>	<b>15</b>

<b>Sophomore Year - First Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs.</b>
<b><i>HIST 1350 or 1351 or POLS 1510</i></b>	3	<b><i>General Education Science</i></b>	3-4
SPAN 2603 Spanish Conversation I	3	SPAN 3603 Spanish Conversation II	3
SPAN 3623 Spanish Composition	3	SPAN 3662 Spanish American Civ. & Literature	3
Coursework in Minor	3	General Education	3
General Education	3	Coursework in Minor	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15-16</b>

**Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>	<b>Hrs.</b>	<b>Junior Year - Second Semester</b>	<b>Hrs.</b>
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
Coursework in Minor	3	Coursework in Minor	6
General Education	6	General Education	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>

**Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.**

<b>Senior Year - First Semester</b>	<b>Hrs.</b>	<b>Senior Year - Second Semester</b>	<b>Hrs.</b>
Elective in SPAN 4000-Level	3	Elective in SPAN 4000-Level	3
Coursework in Minor	6	Coursework in Minor	3
Free Choice Electives	6	General Education	3
<b>Semester Total</b>	<b>15</b>	Free Choice Electives	4
		<b>Semester Total</b>	<b>13</b>

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

- \*AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective.
- 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 C-BASE exam. These courses are indicated on the plan in ***bold italics***.
- **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.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

## Spanish Education Major, B.S. in Ed. Degree

2/2007

This is the recommended program of study for the Spanish Education Major, B.S.E. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Modern Languages for further information or guidance.

Freshman Year - First Semester		Hrs.	Freshman Year - Second Semester		Hrs.
<b>ENGL 1020 Composition I</b>		3	<b>ENGL 1030 Composition II</b>		3
<b>POLS 1510 American Government</b>		3	SPAN 2602 Intermediate Spanish II		3
SPAN 2601 Intermediate Spanish I		3	<b>General Education Math</b>		3
<b>General Education Science*</b>		3-4	Coursework in Minor		3
General Education		2-3	<b>HIST 1350 or 1351 U.S. History</b>		3
<b>Semester Total</b>		<b>15</b>	<b>Semester Total</b>		<b>15</b>
AE 1400 Freshman Seminar**					

Sophomore Year - First Semester		Hrs.	Sophomore Year - Second Semester		Hrs.
EDCI 2100 Foundations of Education & Field Exp.		3	SPAN 3603 Spanish Conversation II		3
EDCI 2240 Educational Psychology		3	Elective in Spanish***		3
SPAN 3623 Spanish Composition		3	General Education		6
SPAN 2603 Spanish Conversation I		3	Coursework in Minor		3
General Education		3	<b>Semester Total</b>		<b>15</b>
Minor Coursework		3			
<b>Semester Total</b>		<b>18</b>			

**Take the College BASE for Teachers Exam the semester following the completion of the 15 hour set of General Education courses.**

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

**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.**

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

**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.
- \*\*AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective; however, this major does not require any free choice electives.
- \*\*\*Students 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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

**Special Education: Early Childhood Major, B.S. in Ed. Degree**

2/2007

This is the recommended program of study for the Special Education: Early Childhood Functional Major, B.S. in Ed. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective UCM students should contact the Department of Educational Leadership and Human Development for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Second Semester</b>	<b>Hrs.</b>
<b><i>ENGL 1020 Composition I</i></b>	3	EDSP 2100 Educ. of the Exceptional Child	2
<b><i>MATH 1620 Contemporary Mathematics</i></b>	3	GEOG 2212 World Geography	3
<b><i>HIST 1350 or 1351 American History</i></b>	3	<b><i>ENGL 1030 Composition II</i></b>	3
<b><i>General Education Science with lab</i></b>	4	EDCI 1310 Physics for Teachers <b>or</b>	
General Education	3	EDCI 1320 Biology for Teachers**	3
<b>Semester Total</b>	<b>16</b>	General Education	6
AE 1400 Freshman Seminar*		<b>Semester Total</b>	<b>17</b>

<b>Sophomore Year - First Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs.</b>
EDCI 2240 Educational Psychology	3	<b><i>POLS 1510 American Government</i></b>	3
EDCI 2100 Found. of Edu. & Field Experience	3	EDSP 3150 Community & Family Resources	2
CFD 1220 Child Development	3	EDSP 3151 Pract. Comm & Family Resources	1
D&N 2310 Early Childhood Nutrition	2	General Education	9
EDCI 2310 Computer/Technology in Educ.	2	<b>Semester Total</b>	<b>15</b>
CD 2000 Bases of Language	2		
Free Choice Electives	1		
<b>Semester Total</b>	<b>16</b>		

**Take the College BASE for Teachers Exam the semester following the completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>	<b>Hrs.</b>	<b>Junior Year - Second Semester</b>	<b>Hrs.</b>
EDSP 4140 Collaborating with Families	3	EDSP 4350 Augment & Alternative Comm.	3
EDSP 4320 Intro. to Early Childhood Sp. Ed.	3	EDSP 4470 Perceptual Motor Training	3
EDSP 4370 Screening, Diag., & Presc. Inst.	3	EDSP 4440 Curriculum & Methods ECSE	3
EDSP 4620 Eval. of Ability & Achievement	3	EDSP 4360 Behavior Mgt. Techniques	2
MATH 3890 Conc. & Meth. for Teach. Sp. Ed.	3	EDSP 4361 Practicum in Behav. Mgt. Tech.	1
HED 4330 First Aid and CPR	1	EDCI 3210 Methods of Reading Instruction	3
CFD 1230 Observing Children	2	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>18</b>		

**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.**

<b>Senior Year - First Semester</b>	<b>Hrs.</b>	<b>Senior Year - Second Semester</b>	<b>Hrs.</b>
IGEN 3468 Comm. School & Family Conn.	3	EDSP 4395 Student Teaching I	6-8
EDCI 3220 Teaching Language Arts	3	EDSP 4396 Student Teaching II	6
EDCI 3410 Children's Literature	2	<b>Semester Total</b>	<b>12-14</b>
EDSP 4700 IEP & Law	3		
ART 3910 Art for Elementary School	2		
Free Choice Electives	0-2		
<b>Semester Total</b>	<b>13-15</b>		

**Special Education: Early Childhood 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.
- \*\*Students must have one biological and one physical science.
- 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 C-BASE exam. These courses are indicated on the plan in ***bold italics***.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

**Special Education: Mild/Moderate Cross Categorical Disabilities, B.S. in Ed. Degree** 2/2007

This is the recommended program of study for the Special Education: Mild/Moderate Cross Categorical Disabilities Functional Major, B. S. in Ed. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective UCM students should contact the Department of Educational Leadership and Human Development for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Second Semester</b>	<b>Hrs.</b>
<b><i>ENGL 1020 Composition I</i></b>	3	<b><i>HIST 1350 or 1351 American History</i></b>	3
<b><i>MATH 1620 Contemporary Mathematics</i></b>	3	EDSP 2100 Educ. of the Exceptional Child	2
<b><i>POLS 1510 American Government</i></b>	3	<b><i>ENGL 1030 Composition II</i></b>	3
<b><i>General Education Science with Lab</i></b>	4	EDCI 1310 Physics for Teachers <b>or</b>	
General Education	2-3	EDCI 1320 Biology for Teachers**	3
<b>Semester Total</b>	<b>15-16</b>	General Education	6
AE 1400 Freshman Seminar*		<b>Semester Total</b>	<b>17</b>

<b>Sophomore Year - First Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs.</b>
EDCI 2100 Foundations of Edu. & Field Exper.	3	PSY 4230 Adolescent Psychology***	3
EDCI 2240 Educational Psychology	3	GEOG 2212 World Geography	3
EDSP 4385 Intro. to Cross Categorical Sp. Ed.	3	HED 3310 Health Education in Elem. Schools	2
PSY 2220 Child Psychology***	3	EDSP 4140 Collaborating with Families	3
EDCI 2310 Computer Technology in Education	2	General Education	6
Free Choice Electives	1	<b>Semester Total</b>	<b>17</b>
<b>Semester Total</b>	<b>15</b>		

**Take the College BASE for Teachers Exam the semester following the completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>	<b>Hrs.</b>	<b>Junior Year - Second Semester</b>	<b>Hrs.</b>
MATH 3890 Conc. & Meth for Teach. Sp. Ed.	3	MATH 4890 Math for Special Education	2
ART 3910 Art for Elementary School	2	EDSP 4421 Methods Cross - Categorical I	3
EDSP 4360 Behavior Management Techniques	2	EDSP 4422 Methods Cross - Categorical II	3
EDSP 4361 Practice in Behavior Mgt. Tech.	1	EDCI 3215 Teaching Reading Content	3
EDSP 4150 Career Dev. for Student w/Dis.	2	CD 4402 Lang. Dev. for Indiv. w/Disabilities	2
EDSP 4620 Eval. of Ability & Achievement	3	HED 4330 First Aid and CPR	1
EDCI 3210 Methods of Reading Instruction	3	Free Choice Electives	3
<b>Semester Total</b>	<b>16</b>	<b>Semester Total</b>	<b>17</b>

**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.**

<b>Senior Year - First Semester</b>	<b>Hrs.</b>	<b>Senior Year - Second Semester</b>	<b>Hrs.</b>
EDSP 4700 IEP & Law	3	EDSP 4395 Student Teaching in Special Ed. I	6
EDSP 4423 Methods Cross - Categorical III	3	ICAP 4468 Student Teaching Second II	6
EDCI 4220 Analysis/Correction Reading Disabilities	2	<b>Semester Total</b>	<b>12</b>
EDCI 4250 Practicum in Reading	1		
Free Choice Electives	6		
<b>Semester Total</b>	<b>15</b>		

**Special Education: Mild/Moderate Cross Categorical Disabilities 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.
- \*\*Students must have one biological and one physical science.
- \*\*\*With permission of adviser, 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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.



**Special Education: Severe Developmental Disabilities Major, B.S. in Ed. Degree**

2/2007

This is the recommended program of study for the Special Education: Severe Developmental Disabilities Functional Major, B.S. in Ed. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective UCM students should contact the Department of Educational Leadership and Human Development for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Second Semester</b>	<b>Hrs.</b>
<b>ENGL 1020 Composition I</b>	3	GEOG 2212 World Geography	3
<b>MATH 1620 Contemporary Mathematics</b>	3	<b>ENGL 1030 Composition II</b>	3
<b>POLS 1510 American Government</b>	3	General Education	6
<b>General Education Science with Lab</b>	4	EDCI 1310 Physics for Teachers <b>or</b>	
General Education	2-3	EDCI 1320 Biology for Teachers**	3
<b>Semester Total</b>	<b>15-16</b>	EDSP 2100 Education of the Exceptional Child	2
AE 1400 Freshman Seminar*		<b>Semester Total</b>	<b>17</b>

<b>Sophomore Year - First Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs.</b>
EDCI 2100 Foundations of Edu. & Field Exper.	3	EDSP 4140 Collaborating with Families	3
EDCI 2240 Educational Psychology	3	PE 4340 Adaptive Physical Education	3
HED 1350 Student First Aid	3	<b>HIST 1350 or 1351 American History</b>	3
EDCI 2310 Computer/Tech. in Education	2	EDSP 4350 Augment & Alternative Comm.	3
CD 4402 Language Dev. for Indiv. w/Disability	2	General Education	3
PSY 2220 Child Psychology***	3	HED 3310 Methods in Elem. School Health	2
<b>Semester Total</b>	<b>16</b>	<b>Semester Total</b>	<b>17</b>

**Take the College BASE for Teachers Exam the semester following the completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>	<b>Hrs.</b>	<b>Junior Year - Second Semester</b>	<b>Hrs.</b>
EDSP 4310 Intro. to Students with SDD	2	EDSP 4470 Perceptual Motor Training	3
EDSP 4330 Ed. & Trng. of Students w/SDD	3	EDSP 4450 Curriculum & Methods SDD	3
EDSP 4370 Screening, Diagn., & Presc. Inst.	3	EDSP 4360 Behavior Mgt .Techniques	2
MATH 3890 Conc. & Meth. for Teach. Sp. Ed.	3	EDSP 4361 Practice in Behav. Mgt. Tech.	1
General Education	6	EDSP 4620 Eval. of Ability & Achievement	3
<b>Semester Total</b>	<b>17</b>	EDCI 3210 Methods of Reading Instruction	3
		<b>Semester Total</b>	<b>15</b>

**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.**

<b>Senior Year - First Semester</b>	<b>Hrs.</b>	<b>Senior Year - Second Semester</b>	<b>Hrs.</b>
PSY 4230 Psychology of Adolescence***	3	EDSP 4395 Student Teaching I	6
EDSP 4700 IEP & Law	3	ICAP 4468 Student Teaching II	6
ART 3910 Art for Elementary School	3	<b>Semester Total</b>	<b>12</b>
MATH 4890 Math for Special Education	2		
HED 4330 First Aid and CPR for Educators	1		
Free Choice Electives	3		
<b>Semester Total</b>	<b>15</b>		

**Special Education: Severe Developmental Disabilities Major, B.S. in Ed. - 124 hours**

- \*AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective.
- \*\*Students must have one biological and one physical science.
- \*\*\*With permission of adviser, 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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

## Speech Communication Major, B.A. Degree

2/2007

This is the recommended program of study for the Speech Communication Major, B.A. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Communication for further information or guidance.

Freshman Year - First Semester		Hrs	Freshman Year - Second Semester		Hrs
COMM 1000 Public Speaking		3	COMM 2100 Intro. to Communication Theory		3
COMM 2325 Improving Listening Abilities		2	COMM 2330 Small Group Communication		3
<b>ENGL 1020 Composition I</b>		3	<b>ENGL 1030 Composition II</b>		3
Modern Language Requirement*		3	Modern Language Requirement*		3
General Education		3	General Education		3
<b>Semester Total</b>		<b>14</b>	<b>Semester Total</b>		<b>15</b>
AE 1400 Freshman Seminar**					

Sophomore Year - First Semester		Hrs	Sophomore Year - Second Semester		Hrs
COMM 2320 Foundations of Rhetorical Thinking		3	ANTH 1820 or GEOG 3201 or WS 2000		3
<b>HIST 1350 or 1351 or POLS 1510</b>		3	COMM 3010 Interpersonal Communication		3
<b>General Education Math</b>		3	General Education		3
Modern Language Requirement*		3	<b>General Education Science</b>		3-4
General Education		3	Coursework in Minor		3
<b>Semester Total</b>		<b>15</b>	<b>Semester Total</b>		<b>15-16</b>

Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.

Junior Year - First Semester		Hrs	Junior Year - Second Semester		Hrs
COMM 3730 Communication Conflict Mgmt.		3	COMM 3340 Intercultural Communication		3
General Education		5	COMM 4340 Classical Rhetorical Theory		3
Coursework in Minor		3	Coursework in Minor		6
Free Choice Electives		6	Free Choice Elective		3
<b>Semester Total</b>		<b>17</b>	<b>Semester Total</b>		<b>15</b>

Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.

Senior Year - First Semester		Hrs	Senior Year - Second Semester		Hrs
COMM 3320 Audience Adaptation <b>or</b> COMM 4345 Modern Rhetorical Theory		3	COMM 4330 Theories of Interpersonal Communication		3
COMM 4335 Gender Communication		3	IGEN 3224, 3232 <b>or</b> 4224		3
Coursework in Minor		6	Coursework in Minor		3
Free Choice Electives		5	Free Choice Electives		6
<b>Semester Total</b>		<b>16</b>	<b>Semester Total</b>		<b>15</b>

## Speech Communication Major, B.A. Degree - 124 hours

- \*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 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective, however, this program does not require 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.
- 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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- This plan is based on a 21-hour minor.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

**Speech Communication Major, B.S. Degree**

2/2007

This is the recommended program of study for the Speech Communication Major, B.S. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Communication for further information or guidance.

<b>Freshman Year - First Semester</b>		<b>Hrs</b>	<b>Freshman Year - Second Semester</b>		<b>Hrs</b>
COMM 1000 Public Speaking		3	COMM 2330 Small Group Communication		3
COMM 1100 Introduction to Communication		1	COMM 3010 Interpersonal Communication		3
COMM 1110 Communication Skills Lab		1	ANTH 1820 or GEOG 3201 or WS 2000		3
COMM 2325 Improving Listening Abilities		2	<b>ENGL 1030 Composition II</b>		3
<b>ENGL 1020 Composition I</b>		3	General Education		3
General Education		6	<b>Semester Total</b>		<b>15</b>
<b>Semester Total</b>		<b>16</b>			

<b>Sophomore Year - First Semester</b>		<b>Hrs</b>	<b>Sophomore Year - Second Semester</b>		<b>Hrs</b>
COMM 2100 Introduction to Comm. Theory		3	COMM 2320 Foundations of Rhetorical Theory		3
COMM 2110 Introduction to Comm. Theory Lab		1	COMM 3100 Communication Research Methods		3
Major Elective in Social Influence*		2-3	COMM 3110 Resource & Methods Lab		1
<b>HIST 1350 or 1351 or POLS 1510</b>		3	General Education		3
<b>General Education Math</b>		3	<b>General Education Science</b>		3-4
General Education		3	Coursework in Minor		3
<b>Semester Total</b>		<b>15-16</b>	<b>Semester Total</b>		<b>16-17</b>

**Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>		<b>Hrs</b>	<b>Junior Year - Second Semester</b>		<b>Hrs</b>
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
Department-Approved Upper-Level Elective		3	Coursework in Minor		6
General Education		3	Department-Approved Upper-Level Elective		3
Coursework in Minor		3	<b>Semester Total</b>		<b>14-15</b>
<b>Semester Total</b>		<b>14-15</b>			

**Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.**

<b>Senior Year - First Semester</b>		<b>Hrs</b>	<b>Senior Year - Second Semester</b>		<b>Hrs</b>
Major Elective in Social Influence*		2-3	COMM 4320 Persuasion		2
Major Elective in Rhetorical Studies*		3	Major Elective in Rhetorical Studies*		3
IGEN 3224 or 3232 or 4224		3	Major Elective in Social Influence		3
Coursework in Minor		6	Coursework in Minor		3
<b>Semester Total</b>		<b>14-15</b>	Upper-Level Free Choice Electives		3-5
			<b>Semester Total</b>		<b>14-16</b>

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

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

- \*A minimum of 14 major elective hours taken in applied communication, interaction skills, social influence, and rhetorical studies must be upper-level.
- 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.
- 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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- This plan is based on a 21-hour minor.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

**Speech Communication and Theatre Major - Speech Option, B.S. in Ed. Degree**

2/2007

This is the recommended program of study for the Bachelor of Science in Education in Speech Communication and Theatre Major, B.S. in Ed. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Communication for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs</b>	<b>Freshman Year - Second Semester</b>	<b>Hrs</b>
<b><i>ENGL 1020 Composition I</i></b>	3	<b><i>ENGL 1030 Composition II</i></b>	3
<b><i>General Education Math</i></b>	3	THEA 1500 Acting	3
COMM 1000 Public Speaking	3	THEA 2400 Theatre in Western Civilization	3
COMM 1100 Introduction to Communication	1	<b><i>HIST 1350 or 1351 US History</i></b>	3
<b><i>POLS 1510 American Government</i></b>	3	WS 2000 or GEOG 3201 or ANTH 1820	3
General Education	3	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>16</b>		

<b>Sophomore Year - First Semester</b>	<b>Hrs</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs</b>
COMM 2100 Intro. to Comm. Theory	3	COMM 2340 Argumentation & Debate	3
COMM 2110 Intro. to Comm. Theory Lab	1	COMM 3390 Forensics	1
COMM 2330 Small Group Communication	3	EDCI 2100 Foundations of Ed. & Field Exp.	3
COMM 3010 Interpersonal Communication	3	EDCI 2240 Educational Psychology	3
THEA 1600 Stagecraft	3	THEA 3700 Directing	3
<b><i>General Education Science</i></b>	3-4	Coursework in Minor	3
<b>Semester Total</b>	<b>16-17</b>	<b>Semester Total</b>	<b>16</b>

**Take the College BASE for Teachers Exam the semester following the completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>	<b>Hrs</b>	<b>Junior Year - Second Semester</b>	<b>Hrs</b>
PSY 4200 Psychology of Exceptional Child or EDSP 2100 Ed. of Exceptional Child	2	EDCI 4210 Teaching Reading in Secondary	2
COMM 3325 Nonverbal Communication	2	PSY 4230 Psychology of Adolescent	3
COMM 3350 Principles of Presentational Speaking	3	COMM 3000 Film Appreciation	3
Coursework in Minor	6	Coursework in Minor	6
General Education	3	General Education	3
<b>Semester Total</b>	<b>16</b>	<b>Semester Total</b>	<b>17</b>

**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.**

<b>Senior Year - First Semester</b>	<b>Hrs</b>	<b>Senior Year - Second Semester</b>	<b>Hrs</b>
EDCI 3500 Secondary Teaching & Behavior Mgt.	3	THEA 4984 Special Methods Speech & Theatre	2
EDCI 3550 Practicum in Secondary Instruction	1	THEA 4920 Secondary Field Experience II	1
EDCI 4300 Ed. Measurement & Evaluation	2	EDCI 4595 Student Teaching Secondary I	4
THEA 4400 or 4420 Lit. & History of Theatre	3	ICAP 4468 Student Teaching Secondary II	5
COMM 3320 Audience Adaptation	3	<b>Semester Total</b>	<b>12</b>
COMM Elective	1		
Coursework in Minor	3		
<b>Semester Total</b>	<b>16</b>		

**Speech Communication and Theatre Major - Speech Option, B.S. in Ed. Degree - 124 hours**

- 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 C-BASE exam. These courses are indicated on the plan in ***bold italics***.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

**Speech Communication and Theatre Major - Theatre Option, B.S. in Ed. Degree**

2/2007

This is the recommended program of study for the Speech Communication and Theatre Major, B.S. in Ed. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Theatre for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Second Semester</b>	<b>Hrs.</b>
THEA 1500 Acting	3	<b>General Education Science**</b>	3-4
THEA 1100 Oral Interpretation	3	<b>HIST 1350 or 1351 U.S. History</b>	3
THEA 1600 Stagecraft	3	THEA 2400 Theatre in Western Civilization	3
<b>General Education Math</b>	3	<b>ENGL 1030 Composition II</b>	3
<b>ENGL 1020 Composition I</b>	3	THEA 2610 Design Fundamentals	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15-16</b>
AE 1400 Freshman Seminar*			

<b>Sophomore Year - First Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs.</b>
EDCI 2100 Foundations of Education & Field Exp.	3	EDSP 2100 Ed. of the Exceptional Child <b>or</b>	
EDCI 2240 Ed. Psychology	3	PSY 4200 Psychology of the Exceptional Child	2
COMM 2330 Small Group Communication	3	COMM 2100 Introduction to Comm. Theory	3
COMM 2340 Argumentation & Debate	3	THEA 3700 Directing	3
Coursework in Minor	3	General Education	6
<b>POLS 1510 American Government</b>	3	Coursework in Minor	3
<b>Semester Total</b>	<b>18</b>	<b>Semester Total</b>	<b>17</b>

**Take the College BASE for Teachers Exam the semester following the completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>	<b>Hrs.</b>	<b>Junior Year - Second Semester</b>	<b>Hrs.</b>
COMM 3390 Forensics	1	THEA 3630 Studio Theatre I	1
COMM 3325 Nonverbal Communication	2	THEA 4420 Literature & History II	3
THEA 4400 Literature & History I	3	PSY 4230 Psychology of Adolescence	3
COMM or Theatre Electives	4	General Education	6
General Education	3	Coursework in Minor	3
Coursework in Minor	3	<b>Semester Total</b>	<b>16</b>
<b>Semester Total</b>	<b>16</b>		

**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.**

<b>Senior Year - First Semester</b>	<b>Hrs.</b>	<b>Senior Year - Second Semester</b>	<b>Hrs.</b>
THEA 4730 Studio Theatre II	1	THEA 4920 Secondary Field Experience II	1
EDCI 3500 Secondary Teaching & Behavior Mgt.	3	THEA 4984 Methods of Teaching Speech & Theatre	2
EDCI 3550 Practicum in Secondary Instruction	1	EDCI 4595 Student Teaching Secondary I	5
EDCI 4210 Tchg. of Rdg. in the Secondary School	2	ICAP 4468 Student Teaching Secondary II	4
EDCI 4300 Education Measures & Evaluation	2	<b>Semester Total</b>	<b>12</b>
Coursework in Minor	6		
<b>Semester Total</b>	<b>15</b>		

**Speech Communication and Theatre Major – Theatre Option, B.S. in Ed. Degree - 124 hours**

- \*AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective.
- \*\*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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

**Speech-Language Pathology Major, B.S. Degree**

2/2007

Please refer to the Department of Communication Disorders for upcoming changes to the major requirements. This is the recommended program of study for the Speech-Language Pathology Functional Major, B.S. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Communication Disorders for further information or guidance.

<b>Freshman Year - First Semester</b>		<b>Hrs.</b>	<b>Freshman Year - Second Semester</b>		<b>Hrs.</b>
CD 3501	Introduction to Communication Disorders	3	CD 2301	American Phonetics	3
CD 3802	Observation of Clinical Practicum	1	PHYS 1103	Intro. to Sciences: Physics	3
BIOL 1004	Intro. to Sciences: Ecology w/Lab **	4	ENGL 1030	Written Communication for Gen. Ed.*	3
ENGL 1020	Written Comm. for General Ed.*	3	Humanities & Fine Arts for Gen. Ed.*		3
MATH	Requirement for General Education*	3	Social & Behav. Sci. for Gen. Ed. (Choose One)*		3
AE 1400	Freshman Sem., Comm. Disorders Sect.	1	HIST 1350	or U.S. History to 1865	
	Free Choice Elective	1	HIST 1351	or U.S. History from 1865	
	<b>Semester Total</b>	<b>16</b>	POLS 1510	American Government	
			Free Choice Elective		1
			<b>Semester Total</b>		<b>16</b>

<b>Sophomore Year - First Semester</b>		<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>		<b>Hrs.</b>
CD 3301	Anat. & Phys. of Speech & Swallowing	2	CD 3503	Principles of Clinical Management	3
	English Literature for General Education*	3	CD 3304	Speech Science	3
PSY 1100	General Psychology**	3	ENGL 4110	Linguistics	3
COMM 1000	Public Speaking**	3	PSY 3220	Lifespan Development	3
	Technology Requirement for Gen. Ed. (2-3 hrs.)	3	Humanities & Fine Arts for General Education*		3
	Free Choice Elective	1	<b>Semester Total</b>		<b>15</b>
	<b>Semester Total</b>	<b>15</b>			

**Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>		<b>Hrs.</b>	<b>Junior Year - Second Semester</b>		<b>Hrs.</b>
CD 4701	Introduction to Audiology	3	CD 4706	Hearing Measurement	3
CD 4504	Intro. to Articulation/Phonological Disord.	3	CD 4505	School-age Issues in Language & Literacy	3
CD 4501	Basic Neurosci. for Speech-Lang. Path.	2	HED 4330	First Aid & CPR for Educators	1
CD 4401	Language Development	3	Cultural Interaction for General Education*		3
CD 4900	Beginning Sign Language	2	Personal Interaction for General Education*		3
	Social Science for General Education*	3	Free Choice Elective		3
	<b>Semester Total</b>	<b>16</b>	<b>Semester Total</b>		<b>16</b>

**Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.**

<b>Senior Year - First Semester</b>		<b>Hrs.</b>	<b>Senior Year - Second Semester</b>		<b>Hrs.</b>
PSY 4515	Statistics	3	CD 4515	Rehab. of Cognitive-Linguistic Impair.	2
CD 4510	Multicultural Issues in Comm. Disorders	2	CD 4512	Birth to Three: Assess. & Intervention	3
CD 4103	Intr. To Evid. Based Pract. in Comm. Dis.	2	CD 4511	Assistive Technology Across the Lifespan	2
CD 4708	Aural Rehabilitation	3	CD 4803	Undergraduate Clinical Practicum	1
CD 4803	Undergraduate Clinical Practicum	1	IGEN Select from IGEN		3
CD 4102	Couns. Pers. w/Comm. Dis. & Their Fam.	2	Free Electives (4-5)		4
	Free Choice Electives	2	<b>Semester Total</b>		<b>15</b>
	<b>Semester Total</b>	<b>15</b>			

**Speech-Language Pathology Major, B.S. Degree - Minimum hours to graduate 124**

- \* Please refer to the Undergraduate Catalog for specific information on General Education Requirements.
- \*\* Must take the General Education course indicated by the department.
- Students must contact the undergraduate adviser in the Department of Communication Disorders for admission into the program.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

## Studio Art Functional Major, B.F.A. Degree

2/2007

This is the recommended program of study for the Studio Art Functional Major, B.F.A. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Art for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Second Semester</b>	<b>Hrs.</b>
ART 1110 Drawing I	3	ART 1120 Drawing II	3
ART 1315 Design I	3	ART 1325 Design II	3
ART 1800 Ideas in the Visual Arts	3	ART (2412, 2420, 2511) Beginning Studio (Ceramics, Sculpture, Painting)	3
<b>ENGL 1020 Composition I</b>	3	<b>ENGL 1030 Composition II</b>	3
<b>General Education Math</b>	3	General Education	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>
AE 1400 Freshman Seminar*			

<b>Sophomore Year - First Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs.</b>
ART 1815 Art History Survey I (fall) <b>or</b> ART 1835 Survey of Non-West Art (spring)	3	ART 2710 Introduction to Printmaking	3
ART 3209 Figure Construction	3	ART (2412, 2420, 2511) Beginning Studio (Ceramics, Sculpture, Painting)	3
ART (2412, 2420, 2511) Beginning Studio (Ceramics, Sculpture, Painting)	3	ART 1825 Art History Survey II (spring)	3
<b>HIST 1350 or 1351 or POLS 1510</b>	3	General Education	3
Art Elective	3	<b>General Education Science</b>	3
<b>Semester Total</b>	<b>15</b>	Art Elective	3
		<b>Semester Total</b>	<b>18</b>

Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.

<b>Junior Year - First Semester</b>	<b>Hrs.</b>	<b>Junior Year - Second Semester</b>	<b>Hrs.</b>
Elective From Area of Emphasis	3	Elective From Area of Emphasis	6
ART 3110 Drawing III	3	General Education	6
ART 2335 Design III	3	Art Elective	3
Art Elective	3	ART 4850 20th Century Art and Arch. (fall) <b>or</b> ART 4860 Contemp. Art & Design (spring)	3
General Education	6	<b>Semester Total</b>	<b>18</b>
<b>Semester Total</b>	<b>18</b>		

Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.

<b>Senior Year - First Semester</b>	<b>Hrs.</b>	<b>Senior Year - Second Semester</b>	<b>Hrs.</b>
Elective From Area of Emphasis	6	Elective From Area of Emphasis	6
General Education	3	ICAP 4221 Artists in Contemp. Society	3
Art Elective	5	General Education	6
<b>Semester Total</b>	<b>14</b>	<b>Semester Total</b>	<b>15</b>

## Studio Art Functional Major, B.F.A. Degree - 128 hours

- \*\*AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective, however, this program does not require free choice electives
- 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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

**Technology Education Major, B.S. in Ed. Degree**

2/2007

This is the recommended program of study for the Technology Education Major, B.S. in Ed. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Career and Technology Education for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Second Semester</b>	<b>Hrs.</b>
GRAP 1010 Introduction to Desktop Publishing	3	General Education	3
ET 1010 Applied Electricity <b>or</b>		MMGT 1510 Intro. to Manufacturing Processes	3
ET 2020 Industrial Electricity	3	<b>ENGL 1030 Composition II</b>	3
Department-Approved Elective*	3	GRAP 1110 Fundamentals of Drafting	3
<b>ENGL 1020 Composition I</b>	3	ET 1020 General Electronics	3
<b>MATH General Education</b>	3	Coursework in Minor	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>18</b>

<b>Sophomore Year - First Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs.</b>
CMGT 3010 Applied Construction Practice	3	EDCI 2100 Foundations of Ed. & Field Experience	3
T&OE 2000 Technology & Change	3	EDCI 2240 Educational Psychology	3
PR&T 1010 Power Mechanics	3	POLS 1510 American Government	3
<b>HIST 1350 or 1351 U.S. History</b>	3	PHYS 1104 Intro. to the Sciences: Physics (Lab)	4
<b>BIOL 1003 Introduction to Sciences: Ecology</b>	3	Coursework in Minor	3
Coursework in Minor	3	<b>Semester Total</b>	<b>16</b>
<b>Semester Total</b>	<b>18</b>		

**Take the College BASE for Teachers Exam the semester following the completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>	<b>Hrs.</b>	<b>Junior Year - Second Semester</b>	<b>Hrs.</b>
IGEN 3116 Creative Problem Solving	3	EDCI 4210 Teach. of Reading in Secondary Schools	2
GEOG 3201 The Cultural Landscape	3	MMGT 4520 Robotics & Automation <b>or</b>	3
PSY 4230 Psychology of Adolescence	3	MMGT 3550 Principles of Numerical Control	
General Education	3	GRAP 4570 Computer Graphics	3
Coursework in Minor	6	General Education	6
<b>Semester Total</b>	<b>18</b>	Coursework in Minor	3
		<b>Semester Total</b>	<b>17</b>

**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.**

<b>Senior Year - First Semester</b>	<b>Hrs.</b>	<b>Senior Year - Second Semester</b>	<b>Hrs.</b>
EDCI 4300 Education Measurement & Evaluation	2	EDCI 4595 Student Teaching Secondary I	5
EDCI 3550 Practicum in Secondary Instruction	1	ICAP 4468 Student Teaching Secondary II	4
EDCI 3500 Sec. Teaching & Behavioral Mgmt.	3	T&OE 4120 Secondary Field Experience	1
T&OE 4145 Selection & Org. of Subject Matter	3	T&OE 4160 Principles of Teaching Industrial Educ.	2
EDSP 2100 Educ. of the Exceptional Child <b>or</b>		<b>Semester Total</b>	<b>12</b>
PSY 4200 Psychology of Exceptional Children	2		
General Education	3		
<b>Semester Total</b>	<b>14</b>		

**Technology Education Major, B.S. in Ed. Degree - 128 hours**

- \*Please see the Department for suggested course options.
- The above 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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.



**Theatre Major, B.A. Degree**

2/2007

This is the recommended program of study for the Theatre Major, B.A. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Theatre for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs.</b>	<b>Freshman Year -Second Semester</b>	<b>Hrs.</b>
<b><i>ENGL 1020 Composition I</i></b>	3	<b><i>ENGL 1030 Composition II</i></b>	3
THEA 1500 Acting	3	<b><i>General Education Math</i></b>	3
THEA 1400 Script Analysis	3	THEA 1100 Oral Interpretation	3
General Education	6	THEA 1600 Stagecraft	3
<b>Semester Total</b>	<b>15</b>	General Education	3
AE 1400 Freshman Seminar*		<b>Semester Total</b>	<b>15</b>

<b>Sophomore Year - First Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs.</b>
<b><i>HIST 1350 or 1351 or POLS 1510</i></b>	3	<b><i>General Education Science</i></b>	3-4
THEA 1510 Stage Movement	3	General Education	5
THEA 2610 Design Fundamentals	3	THEA 1520 Stage Voice	3
General Education	3	Modern Language Requirement**	3
Modern Language Requirement**	3	<b>Semester Total</b>	<b>14-15</b>
<b>Semester Total</b>	<b>15</b>		

**Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>	<b>Hrs.</b>	<b>Junior Year - Second Semester</b>	<b>Hrs.</b>
THEA 3600 or 3610 or 3620	3	General Education	6
THEA 3700 Directing	3	Free Choice Electives	4
Coursework in Minor	6	Coursework in Minor	6
Modern Language Requirement **	3	<b>Semester Total</b>	<b>16</b>
<b>Semester Total</b>	<b>15</b>		

**Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.**

<b>Senior Year - First Semester</b>	<b>Hrs.</b>	<b>Senior Year - Second Semester</b>	<b>Hrs.</b>
THEA 3630 Studio Theatre I	1	THEA 4420 Literature & History II	3
THEA 4400 Literature & History I	3	THEA 4730 Studio Theatre II	1
Theatre Elective	3	General Education	3
Coursework in Minor	6	Coursework in Minor	6
Free Choice Electives	4	Free Choice Electives	3
<b>Semester Total</b>	<b>17</b>	<b>Semester Total</b>	<b>16</b>

**Theatre 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 Bachelor's Degree Requirements section for fulfillment options of the BA Modern Language requirements. This plan is based on nine hours of modern language.
- 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 C-BASE exam. These courses are indicated on the plan in ***bold italics***.
- This plan is based on a 24-hour minor.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

**Theatre Functional Major (Performance Option), B.F.A. Degree**

2/2007

This is the recommended program of study for the Theatre Functional Major (Performance Option), B.F.A. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Theatre for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Second Semester</b>	<b>Hrs.</b>
THEA 1500 Acting	3	THEA 1100 Oral Interpretation	3
THEA 1400 Script Analysis	3	THEA 1610 Stage Makeup	3
THEA 1600 Stagecraft	3	THEA 1520 Stage Voice	3
<b>ENGL 1020 Composition I</b>	3	<b>ENGL 1030 Composition II</b>	3
General Education	3	<b>General Education Math</b>	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>
AE 1400 Freshman Seminar*			

<b>Sophomore Year - First Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs.</b>
THEA 1510 Stage Movement	3	THEA 3700 Directing	3
THEA 2610 Design Fundamentals	3	General Education	5
General Education	6	Technical Theatre Course Elective	3
<b>HIST 1350 or 1351 or POLS 1510</b>	3	<b>General Education Science</b>	3-4
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>14-15</b>

**Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>	<b>Hrs.</b>	<b>Junior Year - Second Semester</b>	<b>Hrs.</b>
THEA 4310 Principles of Theatre Management	3	THEA 3500 or 4500 or 4510	3
THEA 4300 Professional Practices	1	THEA 4300 Professional Practices	1
THEA 4400 Literature & History I	3	Department-Approved Support Course	3
THEA 3500 or 4500 or 4510	3	General Education	6
Department-Approved Support Course	3	Technical Theatre Course Elective	3
General Education	3	<b>Semester Total</b>	<b>16</b>
<b>Semester Total</b>	<b>16</b>		

**Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.**

<b>Senior Year - First Semester</b>	<b>Hrs.</b>	<b>Senior Year - Second Semester</b>	<b>Hrs.</b>
THEA 3630 Studio Theatre I	1	THEA 4420 Literature & History II	3
THEA 4300 Professional Practices	1	THEA 4730 Studio Theatre II	1
Department-Approved Support Course	3	THEA 4710 Advanced Directing	3
Technical Theatre Course Elective	3	THEA 4910 Senior Showcase	1
General Education	3	Free Choice Electives	4-5
Free Choice Electives	6	General Education	3
<b>Semester Total</b>	<b>17</b>	<b>Semester Total</b>	<b>15-16</b>

**Theatre Functional Major (Performance Option), B.F.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
- The student must take nine hours of technical theatre courses.
- The student must take nine hours of departmentally approved support courses.
- 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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

**Theatre Functional Major (Technical Option), B.F.A. Degree**

2/2007

This is the recommended program of study for the Theatre Functional Major (Technical Option), B.F.A. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective UCM students should contact the Department of Theatre for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Second Semester</b>	<b>Hrs.</b>
THEA 1500 Acting	3	THEA 1100 Oral Interpretation	3
THEA 1400 Script Analysis	3	THEA 2610 Design Fundamentals	3
THEA 1600 Stagecraft	3	<b>General Education Math</b>	3
<b>ENGL 1020 Composition I</b>	3	General Education	3
General Education	3	<b>ENGL 1030 Composition II</b>	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>
AE 1400 Freshman Seminar*			

<b>Sophomore Year - First Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs.</b>
THEA 2620 Costume Technology	3	THEA 3700 Directing	3
THEA Performance Elective	3	General Education	6
General Education	6	<b>General Education Science</b>	3-4
<b>HIST 1350 or 1351 or POLS 1510</b>	3	THEA Performance Elective	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15-16</b>

**Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>	<b>Hrs.</b>	<b>Junior Year - Second Semester</b>	<b>Hrs.</b>
THEA 4310 Principles of Theatre Management	3	THEA 3600 Scenic Design	3
THEA 4300 Professional Practices	1	THEA 4300 Professional Practices	1
THEA 4400 Literature & History of Theatre I	3	Department-Approved Support Course	3
THEA 4600 Advanced Technical Theatre	3	General Education	6
THEA 3610 Costume Design	3	THEA Performance Elective	3
Dept. Approved Support Course	3	<b>Semester Total</b>	<b>16</b>
<b>Semester Total</b>	<b>16</b>		

**Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.**

<b>Senior Year - First Semester</b>	<b>Hrs.</b>	<b>Senior Year - Second Semester</b>	<b>Hrs.</b>
THEA 3630 Studio Theatre I	1	THEA 3620 Lighting Design	3
THEA 4300 Professional Practices	1	THEA 4420 Literature & History of Theatre II	3
THEA 4610 Advanced Stage Light & Sound	3	THEA 4730 Studio Theatre II	1
Department-Approved Support Course	3	THEA 4910 Senior Showcase	1
General Education	3	General Education	3
Free Choice Electives	6	Free Choice Elective	4-5
<b>Semester Total</b>	<b>17</b>	<b>Semester Total</b>	<b>15-16</b>

**Theatre Functional Major (Technical Option), B.F.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
- The student must take nine hours of performance courses.
- The student must take nine hours of departmentally-approved support courses
- 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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

## Tourism Major, B.S. Degree

2/2007

This is the recommended program of study for the Tourism Major, B.S. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Health and Human Performance for further information or guidance.

Freshman Year - First Semester		Hrs.	Freshman Year - Second Semester		Hrs.
TOUR 1900 Introduction to Tourism	3		REC 2200 Dev. Recr. & Tour. Program (Spr. Only)	3	
<b>General Education Math</b>	3		Modern Language Requirement*	3	
Modern Language Requirement*	3		GEOG 2212 World Geography	3	
<b>ENGL 1020 Composition I</b>	3		<b>BIOL 1004 Intro. to Sciences: Ecology</b>	4	
BTE 1210 Essentials of Managing Info. or LIS 1600 Information Resources	2		<b>ENGL 1030 Composition II</b>	3	
<b>Semester Total</b>	<b>14</b>		<b>Semester Total</b>	<b>16</b>	
AE 1400 Freshman Seminar**					

Sophomore Year - First Semester		Hrs.	Sophomore Year - Second Semester		Hrs.
TOUR 3300 Tourism Destinations (Fall Only)	3		TOUR 3500 Microcomputer for Tourism & Rec.	3	
Coursework in Minor	3		COMM 1000 Public Speaking	3	
<b>HIST 1350 or 1351 or POLS 1510</b>	3		General Education	6	
<b>General Education Math</b>	3		Coursework in Minor	3	
General Education	5-6		<b>Semester Total</b>	<b>15</b>	
<b>Semester Total</b>	<b>17-18</b>				

Take the College BASE exam the semester following completion of the 15 hour set of General Education courses.

Junior Year - First Semester		Hrs.	Junior Year - Second Semester		Hrs.
ACCT 2101 Principles of Financial Accounting	3		TOUR 3710 Group Tour Operations (Spr. Only)	3	
TOUR 4740 Special Events Planning (Fall Only)	3		HM 4800 Hotel & Restaurant Management	3	
Coursework in Minor	6		Coursework in Minor	6	
General Education	3		Free Choice Elective	3	
<b>Semester Total</b>	<b>15</b>		<b>Semester Total</b>	<b>15</b>	

Students must pass all four areas of the College BASE exam before they have earned 90 credit hours.

Senior Year - First Semester		Hrs.	Senior Year - Second Semester		Hrs.
TOUR 4700 Conference & Conven. Plan. (Fall Only)	3		TOUR 4310 International Tourism (Spr. Only)	3	
TOUR 4920 Senior Seminar (Fall Only)	2		TOUR 4720 Tourism Plan. & Develop. (Spr. Only)	3	
Coursework in Minor	6		TOUR 4730 Tourism Marketing (Spr. Only)	3	
Free Choice Elective	3		Coursework in Minor	3	
<b>Semester Total</b>	<b>14</b>		Free Choice Elective	2	
			<b>Semester Total</b>	<b>14</b>	
<b>Summer Semester following Senior Year</b>	<b>Hrs.</b>				
TOUR 4980 Internship***	6				
<b>Semester Total</b>	<b>6</b>				

## Tourism Major, B.S. Degree - 124 hours

- \*Students must have a minimum proficiency of the second college course in a selected language. As a major area requirement we consider two years at the high school level in a modern language as sufficient. In the absence of sufficient high school classes or other college transfer language courses, the student should take six hours of a modern language (General Education, Division II Area C). The above plan is based on two college courses.
- \*\*AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective.
- \*\*\*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.
- Above degree plan is based on a 21-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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

## Vocational Agriculture Education Functional Major, B. S. in Ed. Degree

1/2006

This is the recommended program of study for the Vocational Agriculture Education Functional Major, B.S. in Ed. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective UCM students should contact the Department of Career and Technology Education for further information or guidance.

Freshman Year - First Semester		Hrs.	Freshman Year - Second Semester		Hrs.
AGRI 1100 Introduction to Agriculture	1		AGRI 1600 Intro. Horticulture Science (Lab)	3	
AGRI 1300 Introductory Plant Science	1		BIOL 1004 Intro. to Sciences: Ecology (w/lab)	4	
AGRI 1200 Agriculture Mechanics (Lab)	3		<b>ENGL 1030 Composition II</b>	3	
AGRI 1420 Animal Husbandry	3		<b>MATH 1111 College Algebra</b>	3	
<b>CHEM 1104 Intro. to Sci.: Chemistry (w/lab)</b>	4		General Education	3	
<b>ENGL 1020 Composition I</b>	3		<b>Semester Total</b>	<b>16</b>	
<b>Semester Total</b>	<b>15</b>				

Sophomore Year - First Semester		Hrs.	Sophomore Year - Second Semester		Hrs.
AGRI 1310 Agronomy I: Row Crops (Lab)	2		AGRI 2130 Global Agriculture	3	
AGRI 2010 Comp. App. for Agriculturalists	3		AGRI 2315 Agronomy II: Forages	2	
AGRI 2330 Introduction to Soil Science (Lab)	3		AGRI 3200 Farm Power & Machinery (Lab)	3	
ECON 1011 Principles of Economics	3		EDCI 2240 Educational Psychology	3	
EDCI 2100 Foundations of Ed. & Fld. Exp.	3		General Education	6	
<b>HIST 1350 or HIST 1351 U.S. History</b>	3		<b>Semester Total</b>	<b>17</b>	
<b>Semester Total</b>	<b>17</b>				

**Take the College BASE for Teachers Exam the semester following the completion of the 15 hour set of General Education courses.**

Junior Year - First Semester		Hrs.	Junior Year - Second Semester		Hrs.
AGRI 3110 Agri-Business Management	3		AGRI 4435 Pork <b>or</b> AGRI 4430 Beef	3	
AGRI 3420 Animal Nutrition	3		EDCI 4210 Teaching of Reading Secondary Sch.	2	
AGRI 4900 Planning & Cond. Prog. in Ag. Ed.*	3		POLS 1510 American Government	3	
PSY 4200 Psychology of Exceptional Child <b>or</b>			PSY 4230 Psychology of Adolescence	3	
EDSP 2100 Educ. of the Exceptional Child	2		General Education	6	
General Education	5-6		<b>Semester Total</b>	<b>17</b>	
<b>Semester Total</b>	<b>16-17</b>				

**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.**

Senior Year - First Semester		Hrs.	Senior Year - Second Semester		Hrs.
AGRI 3120 Distribution & Mkt. Agri. Products	3		AGRI 4910 Agri. Occ. Expr. Programs**	2	
AGRI 4820 Agriculture Safety	3		AGRI 4920 Agri. Mech. in Agri. Education**	2	
EDCI 3500 Sec. Teaching & Behavior Mgmt.	3		AGRI 4930 Methods Teaching Voc. Agriculture**	3	
EDCI 3550 Practicum in Sec. Instruction	1		AGRI 4940 Secondary Field Experience II**	1	
ICAP 4101 Agriculture Capstone Experience	3		EDCI 4595 Student Teaching Secondary I	3	
EDCI 4300 Educational Meas. & Evaluation	2		ICAP 4468 Student Teaching Secondary II	4	
<b>Semester Total</b>	<b>15</b>		<b>Semester Total</b>	<b>15</b>	

## Vocational Agriculture Education Functional Major, B.S. in Ed. Degree - 128 hours

- \*AGRI 4900 is only offered in fall semesters **AND** is the prerequisite to AGRI 4910, 4920, 4930 and 4940.
- \*\*AGRI 4910, 4920, 4930, and 4940 are only offered in spring semesters **AND** their prerequisite is AGRI 4900.
- 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 plan 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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

**Vocational Family and Consumer Sciences Functional Major, B.S. in Ed. Degree**

2/2007

This is the recommended program of study for the Vocational Family and Consumer Sciences Functional Major, B.S. in Ed. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Career and Technology Education for further information or guidance.

<b>Freshman Year - First Semester</b>	<b>Hrs.</b>	<b>Freshman Year - Second Semester</b>	<b>Hrs.</b>
CFD 1010 Individual & Family Relationships	3	CFD 3260 Practicum in Child Development	1
CFD 1220 Child Development	3	<b>ENGL 1030 Composition II</b>	3
<b>General Education Math</b>	3	<b>CHEM 1104 Intro. to Sciences: Chemistry</b>	4
<b>ENGL 1020 Composition I</b>	3	<b>POLS 1510 American Government</b>	3
CTE 1000 Intro. to Career & Technology Education	3	General Education	6
Free Choice Elective	1	<b>Semester Total</b>	<b>17</b>
<b>Semester Total</b>	<b>16</b>		
AE 1400 Freshman Seminar*			

<b>Sophomore Year - First Semester</b>	<b>Hrs.</b>	<b>Sophomore Year - Second Semester</b>	<b>Hrs.</b>
CTE 3110 Financial Management Education	3	FAME 1450 Textile & Apparel Fabrications I	3
FOOD 2322 Food Preparation	3	D&N 3340 Nutrition	3
FAME 2442 Textiles	3	BIOL 1003 Introduction to Sciences: Ecology	3
EDCI 2100 Found. of Educ. & Field Experience	3	<b>HIST 1350 or 1351 U.S. History</b>	3
EDCI 2240 Educational Psychology	3	Free Choice Elective	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>

**Take the College BASE for Teachers Exam the semester following the completion of the 15 hour set of General Education courses.**

<b>Junior Year - First Semester</b>	<b>Hrs.</b>	<b>Junior Year - Second Semester</b>	<b>Hrs.</b>
CFD 3230 Family Systems & Lifespan Dev.	3	CFD 3240 Parent-Child Interaction	3
FACS 3710 Organization of Vocational FACS	3	PSY 4200 Psych. of Exceptional Children <b>or</b>	
PSY 4230 Psychology of Adolescence	3	EDSP 2100 Ed of the Exceptional Child	2
HED 4320 Teaching Sex Educ. in the School	3	FACS 3120 Family Resource Management	3
General Education	3	Free Choice Elective	3
<b>Semester Total</b>	<b>15</b>	General Education	6
		<b>Semester Total</b>	<b>17</b>

**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.**

<b>Senior Year - First Semester</b>	<b>Hrs.</b>	<b>Senior Year - Second Semester</b>	<b>Hrs.</b>
FAME 4410 Architectural Interiors	3	FACS 4725 Secondary Field Experience II	1
EDCI 3500 Secondary Teach. & Behavioral Mgt.	3	FACS 4740 Methods of Teaching Vocational Family & Consumer Sciences	3
EDCI 3550 Practicum in Secondary Instruction	1	EDCI 4595 Student Teaching Secondary I	5
EDCI 4300 Educ. Measurement & Evaluation	2	ICAP 4468 Student Teaching Secondary II	4
EDCI 4210 Teaching of Reading in the Sec. School	2	<b>Semester Total</b>	<b>13</b>
Free Choice Electives	5		
<b>Semester Total</b>	<b>16</b>		

**Vocational Family and Consumer Science Major, B.S. in Ed. Degree – 124 hrs**

- \*AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective.
- 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 C-BASE exam. These courses are indicated on the plan in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.

## Faculty and Staff

*Listing as of January 1, 2007*

### PRESIDENT

**AARON M. PODOLEFSKY** — President and Professor of Anthropology. B.A., San Jose State University; M.A., M.A., Ph.D., State University of New York at Stony Brook.

### VICE PRESIDENTS

**RICHARD C. MORRELL** — Vice President for Student Affairs. B.S.E., M.S., Emporia State University; Ph.D., University of Northern Colorado.

**PAUL A. PAGE** — Vice President for University Advancement. A.A., Fort Scott Community College; B.S., M.S., Pittsburg State University; Ph.D., University of Kansas.

**BETTY J. ROBERTS** — Vice President for Administration and Finance. A.A., Cazenovia College for Women; B.A., Tusculum College; M.Ed., University of Louisville; Ed.S., Ph.D., University of Missouri-Columbia.

**Y.T. SHAH** — Provost and Vice President for Academic Affairs. B.S., University of Michigan; M.S., Ch.E., Sc.D., Massachusetts Institute of Technology.

### ADMINISTRATIVE STAFF

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**AKINWUMI B. ADEBAYO** — Director of Institutional Research. B.A., University of Lethbridge, Alberta, Canada; M.A., State University of West Georgia; Ph.D., Kansas State University.

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**NAOMI J. BALDWIN** — Assistant Director of International Admissions. B.S., M.S., University of Central Missouri.

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- MICHAEL D. WRIGHT** — Interim Dean, College of Education and Professor of Career and Technology Education. B.A., University of Washington-Seattle; M.Ed., Ed.D., University of Illinois-Urbana-Champaign.

## Athletics

- KATHY L. ANDERSON** — Assistant Athletics Director for Student Athlete Services. B.S., University of Central Missouri; M.S., Seattle Pacific University.
- K. KIM ANDERSON** — Head Men's Basketball Coach. B.S., M.S., University of Missouri.
- THERON D. AYCH** — Assistant Football Coach, Quarterbacks. B.S., Northern State University-Aberdeen.
- CHARLES T. CLEMENS** — Assistant Football Coach. B.S., Truman State University.
- JEFF S. CONWAY** — Assistant Head Football Coach & Offensive Coordinator. B.S., Northwest Missouri State University; M.A., Sam Houston State University.
- ROBIN H. ERSLAND** — Head Wrestling Coach. B.A., Luther College; M.A., University of Iowa.
- WILLIAM E. FRITZ** — Head Football Coach. B.S., Pittsburg State University; M.S., Sam Houston State University.
- SCOTT J. GRINDE** — Assistant Football Coach. B.S., University of Wyoming; M.S., University of Texas-El Paso.
- DARIN S. HENDRICKSON** — Head Baseball Coach/Stadium Supervisor. B.S., M.A., Southern Illinois University-Edwardsville.
- KAREN E. HIBDON** — Manager, Multipurpose Building and Pertle Springs Pool. B.Sc., University of London, England; B.S., M.S., PCI, University of Central Missouri.
- RONALD L. HOLMES** — Head Women's Bowling Coach. B.S., M.S., University of Central Missouri.
- STEVE C. HUBER** — Assistant Women's Basketball Coach. B.S., Illinois State University; M.S., Northwest Missouri State University-Maryville.
- JERRY M. HUGHES** — University Director of Intercollegiate Athletics. B.S. in Ed., M.S. in Ed., University of Central Missouri.
- KIP B. JANVRIN** — Co-Head Track and Field Coach. B.S., Simpson College; M.S., University of Central Missouri.



**SHAWN R. JONES** — Assistant Athletics Director/ Broadcasting and Marketing. B.S., University of Central Missouri.

**PEGGY E. MARTIN** — Head Volleyball Coach and Assistant Professor of Physical Education. B.S., Indiana University; M.S.P.E., University of North Carolina-Greensboro; P.E.D., Indiana University.

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**TIMOTHY B. POE** — Pertle Springs Manager/Golf Professional and Head Golf Coach. B.S., University of Central Missouri.

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**LOREELE SMITH** — Assistant Volleyball Coach. B.S., University of North Carolina.

**RHESA S. SUMRELL** — Head Softball Coach. B.S., M.S., Middle Tennessee State University.

**GEOFFREY J. VANDEUSEN** — Head Women's Soccer Coach. B.S., Western Illinois University; M.S., Southwest Missouri State University.

## Finance and Administration

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**DONNA C. BODENHAMER** — Director, Student Accounts and Loans. B.S., M.S. in Ed., University of Central Missouri.

**TERESA J. BOND** — Manager, Accounts Payable.

**RICK L. DIXON** — Assistant Director of Human Resources, Employee Relations and Program Development. B.S., Florida State University; M.A., Webster University; SPHR.

**TENA R. DUNCAN** — Director of Payroll Services.

**KENNETH W. FRAZIER** — Manager, Ancillary Accounting.

**RICHARD G. GILLESPIE** — Police Operations Commander. B.S. in B.A., University of Missouri-Columbia.

**BEN CASTILLO** — Assistant Director of the Physical Plant.

**MICHAEL GEBEKE** — Director of the Physical Plant.

**TONI L. KREKE** — Manager, Operations and General Accounting. B.B.A., St. Edward's University.

**JAMES D. MATTHEWS** — Manager, Construction/Building Trades.

**JOHN F. MERRIGAN** — Controller. B.S., University of Central Missouri; M.B.A., Rockhurst University; CPA Certification.

**CHARLES D. RUTT** — Director, University Store, Textbooks, and Union Station. B.S.B.A., M.S., University of Central Missouri.

**DOROTHY M. SALSMAN** — Director of Budgeting and Planning. B.S.B.A., University of Central Missouri.

**MICHELLE L. TAYLOR** — Staff Development Specialist. B.S., M.A., University of Central Missouri.

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**WILLIAM P. WARD** — Director of Purchasing. B.S., Park College; M.B.A., Averett College.

## Information Services

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**JAMES F. GRAHAM** — Assistant Director, Information Technology Services. B.S.B.A., Newman University; M.S., Fort Hays State University.

**F. RUSSELL HELM** — Chief Information Officer. B.S., University of Arkansas-Fayetteville; Ph.D., University of Georgia.

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**CLINTON J. VICKERS** — Assistant Director, Management Information Systems. B.S., University of Missouri-Columbia; B.S., Missouri Southern State College; M.B.A., University of Central Missouri.

## Presidential Services

**KAREN FRENCH** — Assistant Director of Community Engagement. B.A., Pittsburg State University.

**MONICA R. HUFFMAN** — Executive Assistant to the President/ Manager of Board Affairs. B.S., M.S., Baker University.

**VICTORIA M. HUGHES** — Director, Alumni Relations and Development. B.S.E., M.S.E., Ed.S., University of Central Missouri; Ed.D., University of Missouri.

**MICHELLE D. KNIGHT** — Presidential Events Coordinator.

**MICHAEL A. LUCAS** — Internal Auditor. B.S., University of Texas-Arlington; CPA.

**ANN M. PEARCE** — Special Assistant to the President. B.S., University of Central Missouri.

**JEFFREY A. ROBINSON** — Policy Officer. B.S., M.B.A., University of Central Missouri; J.D., Washburn University School of Law.

**JUDITH PENROD SIMINOE** — General Counsel. B.S., University of Nebraska; M.S., Kansas State University; J.D., University of Nebraska.

## Student Affairs

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