

University of Central Missouri Warrensburg, MO 64093

1-877-SAY-UCMO (1-877-729-8266)
University Operator 660-543-4111

admit@ucmo.edu

P.O. Box 800
Warrensburg, MO 64093

Welcome

At the University of Central Missouri, student success is our top priority. Your admission to UCM represents our confidence in your ability to succeed and our commitment to partner with you by providing access to outstanding faculty, caring staff, excellent programs, immersive opportunities, and engaged learning. Along with your commitment to excel, our student success initiatives create for you the foundation and support to achieve your educational goals.

Your UCM experience also includes substantial opportunities for co-curricular and extracurricular involvement, such as internships with leading companies and organizations, study abroad and international study tour experiences, Fraternity and Sorority Life, discipline-based student organizations, theatre productions, orchestra and choir concerts, and Mules and Jennies athletic events, where our student athletes have collectively won numerous national championships in Division II.

Our commitment to you includes many initiatives designed to enhance your post-UCM success, whether through cutting-edge academic programs which ensure career-readiness, service-learning projects, the Undergraduate Research Symposium in which students present research findings in collaboration with faculty, participation in regional and national academic competitions, or the Career Expo and other career preparatory services offered through the Office of Career Services. We know you will also enjoy being part of a diverse campus setting that introduces you to people, cultures and experiences that make you better prepared to serve in a global society -- all part of our promise to provide an educational environment where you can experience learning to a greater degree.

Our caring, dedicated faculty and staff are committed to standing beside you in pursuit of your dream of a college education that will serve you well into the future. Thank you for choosing UCM. We look forward to joining you on your education journey.

Sincerely,

Roger J. Best, Ph.D.
President, University of Central Missouri
@UCMPresident

Board of Governors

John Collier	Marvin E. Wright
Board President	Board Vice President
Weston	Columbia

Mary Dandurand Casey Short
Board Secretary Student Governor
Warrensburg Greenfield

Steve Abney Walter Hicklin
Warrensburg Gravios Mills

Mary Long Gus Wetzel II
Kansas City Clinton

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 Vice Provost for Academic Programs and Services, Ward Edwards Building 1900, University of Central Missouri, Warrensburg, MO 64093. Publication date, May 2019.

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.

Mission Statement

The University of Central Missouri (UCM) disseminates knowledge that transforms students into leaders who possess the aptitudes, skills and confidence to succeed.

Approved by the UCM Board of Governors, April 2019

General Information

The Undergraduate Catalog

The University of Central Missouri Undergraduate Catalog contains a wealth of information for students, staff, and faculty members. Students should examine it carefully.

This catalog is a reliable guide for entering the university, reviewing available programs of study, selecting courses, and meeting graduation requirements. To the extent possible, the university will accept the degree/certificate requirements in it for an eight-year period.

Since the policies and programs of the university are constantly changing, no catalog can be completely up-to-date, even when it is published. Therefore, students should review their programs periodically with a success advisor and with faculty advisors to allow for necessary changes.

Individual schools and degree programs may have policies and requirements that are more stringent than the general university policies.

Undergraduate students are subject to current administrative policies, procedures, and regulations of the university. The general policies and regulations listed in the 2019 Undergraduate Catalog become effective fall 2019. Consult the *UCM Student Handbook* for other university policies.

The University

The University of Central Missouri is a comprehensive, public university dedicated to providing personalized higher education experiences for a diverse body of students. Through its commitment to service and excellence, UCM seeks to meet the educational needs of the region, with extended responsibility to meet state, national, and international needs through selected programs. The University of Central Missouri is located in Warrensburg, a west central Missouri community of 16,350, located 50 miles southeast of Kansas City at the junction of Highways 50 and 13. The campus 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 an airport and other special facilities, the university occupies more than 1,000 acres. The university offers over 150 graduate and undergraduate programs for over 14,000 students. UCM's 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.

The UCM 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 UCM Community Creed outlines the principles which guide the creation and maintenance of the 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 UCM.

Academic Calendar

2019-2020 Academic Calendar

Fall Semester 2019, August - December

Aug. 1 Thursday, MoCents Scholarship Applications accepted through February 1, 2020.

Aug. 15 Thursday, residence halls open for new first year students, 9 a.m.-1 p.m.

Aug. 16 Friday, university apartments open, 10 a.m.

Aug. 16 Friday, faculty planning.

Aug. 18 Sunday, residence halls open, 10 a.m.-2 p.m.

Aug. 19 **Monday, 8 a.m., classes begin.**

Aug. 19-27 Monday-Tuesday, Enrollment Validation Process. See instructions for details.

Aug. 21 Wednesday, last day for enrollment and changing classes for first-half semester classes. Waitlist for first-half semester classes ends.

Aug. 21 Wednesday, last day for a 100% refund for first-half semester classes.

Aug. 21 Wednesday, last day to change a first-half semester class to/from audit grade mode.

Aug. 22 Thursday, last day for enrollment and changing classes for full semester classes. Waitlist for full semester classes ends.

Aug. 22 Thursday, last day for a 100% refund for full semester classes.

Aug. 22 Thursday, last day to change a full semester class to/from audit grade mode.

Aug. 22 Thursday, course drops for classes that started Monday/Tuesday for Enrollment Validation after 10 a.m.

Aug. 26 Monday, last day for a 50% refund for first-half semester classes.

Aug. 27 Tuesday, course drops for classes that started Wednesday-Sunday for Enrollment Validation after 10 a.m.

Aug. 28 Wednesday, last day for a 50% refund for full semester classes.

- Aug. 29 Thursday, last day for a 25% refund for first-half semester classes.
- Aug. 30 Friday, last day to award a summer degree/certificate. (always the last working day of August)
- Sept. 2 **Monday, Labor Day Holiday, CLASSES DISMISSED and UNIVERSITY OFFICES CLOSED.**
- Sept. 4 Wednesday, last day for a 25% refund for full semester classes.
- Sept. 5 Thursday, last day to change a first-half semester class to/from pass/fail grade mode.
- Sept. 16 Monday, Fall Census Date (always the 5th Monday of the fall/spring semesters)
- Sept. 20 Friday, Spring 2020 course schedule available to view in MyCentral.
- Sept. 20 **Friday, last day to drop a first-half semester class.* (always the 5th Friday of the semester)**
- Sept. 20 Friday, last day to change a full semester class to/from pass/fail grade mode. (always the 5th Friday of the semester)
- Sept. 23 Monday, Holds due by offices for spring enrollment. (always the 6th Monday of the fall/spring semesters)
- Sept. 27-29 Friday-Saturday-Sunday, Family Weekend.
- Oct. 1 Tuesday, Student Progress Reports due by noon in MyCentral. (always the 7th Tuesday of the semester)
- Oct. 1 Tuesday, 2020-2021 FAFSA available at fafsa.gov
- Oct. 11 Friday, final examinations for first-half semester classes and end of first-half semester. (always the 8th Friday of the semester)
- Oct. 11 Friday, last day to petition for a grade appeal of a 2019 summer semester course. (always the 8th Friday of the semester)
- Oct. 12 Saturday, Homecoming
- Oct. 14 **Monday, second-half semester classes begin. (always the 9th Monday of the semester)**
- Oct. 14-22 Monday-Tuesday, Enrollment Validation Process. See instructions for details.
- Oct. 15 Tuesday, grades due at noon for first-half semester classes and classes that ended before October 12th.
- Oct. 16 Wednesday, last day to add/change a second-half semester class. Waitlist for second-half semester classes ends.
- Oct. 16 Wednesday, last day for a 100% refund for second-half semester classes.
- Oct. 16 Wednesday, last day to change a second-half semester class to/from audit grade mode.

- Oct. 16 Wednesday, grades available for first-half semester classes and classes that ended before October 12th.
- Oct. 17 Thursday, course drops for classes that started Monday/Tuesday for Enrollment Validation after 10 a.m.
- Oct. 21 Monday, last day for a 50% refund for second-half semester classes.
- Oct. 21 **Monday, enrollment for spring semester begins. Students can find their individual enrollment access date at ucmo.edu/registrar/dates/enroll.cfm.**
- Oct. 21 Monday, cap and gown distribution for Fall graduation begins at the University Store at The Crossing through commencement day.
- Oct. 22 Tuesday, course drops for classes that started Wednesday-Sunday for Enrollment Validation after 10 a.m.
- Oct. 24 Thursday, last day for a 25% refund for second-half semester classes.
- Oct. 25 **Friday, last day to drop a full semester class.* (always the 10th Friday of the fall semester)**
- Oct. 28 Monday, spring enrollment open to all seniors. Students can find their individual enrollment access date at ucmo.edu/registrar/dates/enroll.cfm.
- Oct. 30 Wednesday, spring enrollment open to all juniors and seniors. Students can find their individual enrollment access date at ucmo.edu/registrar/dates/enroll.cfm.
- Oct. 30 Wednesday, last day to change a second-half semester class to/from pass/fail grade mode.
- Nov. 1 Friday, spring enrollment open to all sophomores, juniors, and seniors. Students can find their individual enrollment access date at ucmo.edu/registrar/dates/enroll.cfm.
- Nov. 1 Friday, last day to apply for Fall graduation to have name included in the printed commencement program. (always the 11th Friday of the semester)
- Nov. 1 Friday, Graduation fees posted for fall graduation candidates. (always the first Friday in November)
- Nov. 6 Wednesday, spring enrollment open to all students.
- Nov. 8 Friday, Summer 2020 schedule available for schools to review (available to public on December 20th).
- Nov. 15 **Friday, last day to drop a second-half semester class.* (always the 13th Friday of the fall semester)**
- Nov. 15 Friday, last day to petition for reinstatement for spring semester (for suspended and dismissed students)
- Nov. 22 Friday, residence halls close, 6 p.m.
- Nov. 22 Friday, Fall 2020 schedule available for schools to review (available to public on January 31).
- Nov. 25-27 **Monday through Wednesday, fall break, CLASSES DISMISSED.**

- Nov. 28-29 **Thursday-Friday, Thanksgiving holiday, CLASSES DISMISSED AND UNIVERSITY OFFICES CLOSED.**
- Dec. 1 Sunday, residence halls open, noon.
- Dec. 6 Friday, Summer semester U grades change to F grades if no other grade reported. (always the Friday of the 16th week of classes)
- Dec. 6 Friday, last day of fall semester classes. (always the Friday of the 16th week of classes)
- Dec. 9-13 Monday through Friday, fall semester final examinations (includes second-half semester classes).
- Dec. 9-13 Monday through Thursday 8-5 and Friday 8-3, commencement name cards available in the Registrar's Office (WDE 1000)
- Dec. 13 Friday, 9 a.m. training for commencement stationary and program hooders at the Multipurpose Building
- Dec. 13 Friday, 9:30 a.m. training for commencement faculty marshals at the Multipurpose Building
- Dec. 13 Friday, Registrar's Office closes at 3 p.m. in preparation for Graduate Commencement Ceremony
- Dec. 13 Friday, residence halls close, 6 p.m.
- Dec. 13 Friday, Graduate Commencement Ceremony (all colleges), 6 p.m.
- Dec. 14 Saturday, Undergraduate Commencement Ceremonies, 10 a.m. (CAHSS, HCB&PS, and GS) and 2 p.m. (CHST and COE)
- Dec. 17 Tuesday, grades due at noon for second-half semester and full semester classes.
- Dec. 18 Wednesday, final semester grades available in MyCentral.
- Dec. 20 Friday, Summer 2020 course schedule available to view in MyCentral.
- Dec. 24-31 **Winter holidays, UNIVERSITY OFFICES CLOSED.**

Spring Semester 2020, January - May

- Jan. 1 **Wednesday, New Year's Day observed, UNIVERSITY OFFICES CLOSED.**
- Jan. 2 Thursday, offices open.
- Jan. 10 Friday, University apartments open, 8 a.m.
- Jan. 12 Sunday, residence halls open, noon.
- Jan. 13 **Monday, 8 a.m., classes begin.**

- Jan. 13-21 Monday-Tuesday, Enrollment Validation Process. See instructions for details.
- Jan. 15 Wednesday, last day for enrollment and changing classes for first-half semester classes. Waitlist for first-half semester classes ends.
- Jan. 15 Wednesday, last day for a 100% refund for first-half semester classes.
- Jan. 15 Wednesday, last day to change a first-half semester class to/from audit grade mode.
- Jan. 15 Wednesday, last day to award a fall degree/certificate. (always January 15th or the next earliest weekday if on a weekend)
- Jan. 16 Thursday, last day for enrollment and changing classes for full semester classes. Waitlist for full semester classes ends.
- Jan. 16 Thursday, last day for a 100% refund for full semester classes.
- Jan. 16 Thursday, last day to change a full semester class to/from audit grade mode.
- Jan. 16 Thursday, course drops for classes that started Monday/Tuesday for Enrollment Validation after 10 a.m.
- Jan. 20 **Monday, Martin Luther King Jr. holiday, CLASSES DISMISSED and UNIVERSITY OFFICES CLOSED.**
- Jan. 21 Tuesday, last day for a 50% refund for first-half semester classes.
- Jan. 21 Tuesday, course drops for classes that started Wednesday-Sunday for Enrollment Validation after 10 a.m.
- Jan. 23 Thursday, last day for a 50% refund for full semester classes.
- Jan. 24 Friday, last day for a 25% refund for first-half semester classes.
- Jan. 29 Wednesday, last day for a 25% refund for full semester classes.
- Jan. 30 Thursday, last day to change a first-half semester class to/from pass/fail grade mode.
- Jan. 31 Friday, Fall 2020 course schedule available to view in MyCentral.
- Feb. 1 Saturday, MoCents Scholarship Applications due today.
- Feb. 1 Saturday, priority date for submission of the 2020-2021 Federal Financial Aid Application (FAFSA) to the national FAFSA processing agency for consideration for the Access Missouri Grant.
- Feb. 10 Monday, Spring Census Date (always the 5th Monday of the fall/spring semesters)
- Feb. 14 **Friday, last day to drop a first-half semester class.* (always the 5th Friday of the semester)**
- Feb. 14 Friday, last day to change a full semester class to/from pass/fail grade mode. (always the 5th Friday of the semester)
- Feb. 17 Monday, Holds due by offices for spring enrollment. (always the 6th Monday of the fall/spring semesters)

- Feb. 25 Tuesday, Student Progress Reports available at noon in MyCentral. (always the 7th Tuesday of the semester)
- Feb. 28 Friday, Curriculum Deadline for 2020 Undergraduate and Graduate Catalogs, including Four Year Guides.
- March 6 Friday, final examinations for first-half semester classes and end of first-half semester.
- March 6 Friday, last day to petition for a grade appeal of a fall semester course. (always the 8th Friday of the semester)
- March 9 **Monday, second-half semester classes begin. (always the 9th Monday of the semester)**
- March 9-24 Monday-Tuesday, Enrollment Validation Process. See instructions for details.
- March 9 Monday, cap and gown distribution for spring and summer graduation begins at the University Store at The Crossing through commencement day.
- March 10 Tuesday, grades due at noon for first-half semester classes and classes that ended before March 7th.
- March 11 Wednesday, last day to add/change a second-half semester class. Waitlist for second-half semester classes ends.
- March 11 Wednesday, last day for a 100% refund for second-half semester classes.
- March 11 Wednesday, last day to change a second-half semester class to/from audit grade mode.
- March 11 Wednesday, grades available for first-half semester classes and classes that ended before March 7th.
- March 12 Thursday, course drops for classes that started Monday/Tuesday for Enrollment Validation after 10 a.m.
- March 13 Friday, residence halls close, 6 p.m.
- March 16-20 **Monday through Friday, Spring Break, CLASSES DISMISSED.**
- March 22 Sunday, residence halls open, noon.
- March 23 **Monday, enrollment for summer and fall semesters begins. Students can find their individual enrollment access date at ucmo.edu/registrar/dates/enroll.cfm.**
- March 23 Monday, last day for a 50% refund for second-half semester classes.
- March 24 Tuesday, course drops for classes that started Wednesday-Sunday for Enrollment Validation after 10 a.m.

- March 26 Thursday, last day for a 25% refund for second-half semester classes.
- March 27 **Friday, last day to drop a full semester class.**
- March 27 Friday, last day to apply for Spring and Summer graduation to have name included in the printed commencement program. (always the 11th Friday of the Semester)
- March 30 Monday, summer/fall enrollment open to all seniors. Students can find their individual enrollment access date at ucmo.edu/registrar/dates/enroll.cfm.
- April 1 Wednesday, last day to change a second-half semester class to/from pass/fail grade mode.
- April 1 Wednesday, summer/fall enrollment open to all juniors and seniors. Students can find their individual enrollment access date at ucmo.edu/registrar/dates/enroll.cfm.
- April 1 Wednesday, priority date for submission of the 2020-2021 Federal Financial Aid Application (FAFSA) to the national FAFSA processing agency for SEOG and Federal Work Study.
- April 3 Friday, summer/fall enrollment open to all sophomores, juniors and seniors. Students can find their individual enrollment access date at ucmo.edu/registrar/dates/enroll.cfm.
- April 3 Friday, Spring 2021 schedule available to Schools for edits.
- April 3 Friday, Graduation fees posted for spring graduation candidates. (always the first Friday in April)
- April 8 Wednesday, summer/fall enrollment open to all students.
- April 15 Wednesday, last day to petition for reinstatement for summer semester (for suspended and dismissed students)
- April 17 **Friday, last day to drop a second-half semester class. (always the 14th Friday of the spring semester)**
- May 1 Friday, last day of spring semester classes. (always the Friday of the 16th week of classes)
- May 1 Friday, Fall semester U grades change to F grades if no other grade reported. (always the Friday of the 16th week of classes)
- May 4-7 Monday through Thursday 8-5 commencement name cards available in the Registrar's Office (WDE 1000).
- May 4-8 Monday through Friday, spring semester final examinations (includes second-half semester classes).
- May 8 Friday, 9 a.m. training for commencement stationary and program hooders at the Multipurpose Building
- May 8 Friday, 9:30 a.m. training for commencement faculty marshals at the Multipurpose Building
- May 8 Friday, Registrar's Office closes at 11 a.m. in preparation for Commencement Ceremonies
- May 8 Friday, housing facilities close, 6 p.m.

- May 8 Friday, 2:30 p.m. Graduate Commencement Ceremony, and 6:00 p.m. CHST Undergraduate Commencement Ceremony.
- May 9 Saturday, 10 a.m. CAHSS, GS, COE & Thrive, & 2 p.m. HCB&PS Undergraduate Commencement Ceremonies.
- May 12 Tuesday, grades due at noon for second-half semester and full semester classes.
- May 13 Wednesday, final semester grades available in MyCentral.

Summer Sessions 2020, May - August

- May 17 Sunday, housing facilities open for summer term.
- May 18 **Monday, 1st 6-week (session S6F) and 12-week (session SFM) sessions begin.**
- May 18-26 Monday-Tuesday, Enrollment Validation Process. See instructions for details.
- May 19 Tuesday, last day to add a 1st 6-week class.
- May 20 Wednesday, last day to add a 12-week class.
- May 25 **Monday, Memorial Day holiday, CLASSES DISMISSED and UNIVERSITY OFFICES CLOSED.**
- May 29 Friday, last day to award a spring degree/certificate. (always the last working day of May)
- June 1 **Monday, 2nd 6-week (session S6G) and 8-week (session S9K) sessions begin. (always Monday of week 3 of summer semester)**
- June 1-9 Monday-Tuesday, Enrollment Validation Process. See instructions for details.
- June 2 Tuesday, last day to add a 2nd 6-week class.
- June 3 Wednesday, last day to add an 8-week class.
- June 12 **Friday, last day to drop a 1st 6-week class. (always the 4th Friday of the summer semester)**
- June 25 Thursday, 1st 6-week sessions end and final exams.
- June 26 **Friday, last day to drop a 2nd 6-week class. (always the 6th Friday of the summer semester)**
- June 26 Friday, last day to petition for a grade appeal of a spring semester course. (always the 6th Friday of the summer semester)
- June 29 **Monday, 3rd 6-week (session S6H) session begins. (always Monday of week 7 of summer semester)**

- June 29-
July 7 Monday-Tuesday, Enrollment Validation Process. See instructions for details.
- June 30 Tuesday, last day to add a 3rd 6-week class.
- June 30 Tuesday, grades due at noon for 1st 6-week session classes.
- July 1 Wednesday, grades available for 1st 6-week session in MyCentral.
- July 3 **Friday, Independence Day Holiday, CLASSES DISMISSED and UNIVERSITY OFFICES CLOSED**
- July 6 **Monday, last day to drop an 8-week class. (always the 7th Friday of the summer semester unless campus is closed, then it's the next business day)**
- July 6 Monday, Graduation fees posted for summer graduation candidates. (always the first Friday in July, if a holiday, the next Monday)
- July 9 Thursday, 2nd 6-week session ends and final exams. (always Thursday of week 8 of summer semester)
- July 10 **Friday, last day to drop a 12-week class. (always the 8th Friday of the summer semester)**
- July 14 Tuesday, grades due at noon for 2nd-week session classes.
- July 15 Wednesday, grades available for 2nd 6-week session in MyCentral.
- July 15 Wednesday, last day to petition for reinstatement for fall semester (for suspended and dismissed students)
- July 23 Thursday, 8-week session ends and final exams. (always Thursday of week 10 of summer semester)
- July 24 **Friday, last day to drop a 3rd 6-week class. (always the 10th Friday of the summer semester)**
- July 28 Tuesday, grades due at noon for 8-week session classes.
- July 29 Wednesday, grades available for 8-week session in MyCentral.
- Aug. 6 Thursday, 3rd 6-week and 12-week sessions end and final exams.
- Aug. 6 Thursday, Summer Census Date (always the last Thursday of the summer semester)
- Aug. 7 Friday, Spring semester U grades change to F grades if no other grade reported. (always the Friday of the 12th week of summer semester)
- Aug. 11 Tuesday, grades due at noon for last 6-week session and 12-week session classes.
- Aug. 12 Wednesday, grades available for last 6-week session and 12-week session in MyCentral.
- Aug. 31 Monday, last day to award a summer degree/certificate.

*NOTE: In addition to full semester (16-week) and half-semester (8-week) classes, UCM offers many classes that are on a variable schedule. The start, end, refund (100%, 50%, and 25%), and last day to drop dates may vary for individual classes. The full schedule of UCM course offerings can be found online in the

public Schedule of Courses site. Students can find the refund and last day to drop deadlines for their particular courses online in MyCentral. Go to the "Student Records and Registration tab" tab, under Registration using the "Check Refund and Withdrawal Dates" link. Additional dates and deadlines can be found at ucmo.edu/registrar/dates. More information can be found in the "Standards and Regulations" section of this catalog.

Accreditations

As set forth in Missouri Revised Statutes Chapter 174 at 174.160, the University of Central Missouri has been assigned the authority to confer degrees.

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, ncahigherlearningcommission.org.

In addition, UCM has earned the following specialized accreditations for these undergraduate-level programs:

- Art baccalaureates, National Association of Schools of Art and Design (NASAD)
- Athletic Training baccalaureates, Commission on Accreditation of Athletic Training Education Programs (CAATE)
- Automotive Technology Management, National Automotive Technicians Education Foundation (NATEF)
- Automotive Technology Management, Construction Management, Design and Drafting Technology, Electronics Technology, and Graphic Technologies baccalaureates, Association of Technology, Management, and Applied Engineering (ATMAE)
- Aviation Management and Professional Pilot baccalaureates, Aviation Accreditation Board International (AABI)
- Baccalaureate Social Work program, Council on Social Work Education (CSWE)
- Business baccalaureates, The Association to Advance Collegiate Schools of Business (AACSB) - International
- Career and Technology Teacher Education (Family Consumer Sciences area) baccalaureate, American Association of Family and Consumer Sciences (AAFCS)
- Chemistry, Physics, Biology, and Earth Science education baccalaureates, National Science Teachers Association (NSTA)
- Commission on English Language Program Accreditation (CEA)
- Computer Information Systems baccalaureate, accredited by the Computing Accreditation Commission of ABET, <http://www.abet.org>
- Computer Science (Computer Science option) baccalaureate, accredited by the Computing Accreditation Commission of ABET, <http://www.abet.org>
- Child and Family Development baccalaureate, National Council on Family Relations (NCFR)
- Cybersecurity baccalaureate, accredited by the Computing Accreditation Commission of ABET, <http://www.abet.org>
- Dietetics baccalaureate, Accreditation Council for Education in Nutrition and Dietetics (ACEND) the accrediting agency for the Academy of Nutrition and Dietetics
- Elementary Education baccalaureate, Association for Childhood Education International (ACEI)
- Elementary Education baccalaureate, Early Childhood Education, National Association for the Education of Young Children (NAEYC)
- Engineering Technology baccalaureate, accredited by the Engineering Technology Accreditation Commission of ABET, <http://www.abet.org>

- Fashion: Textiles and Clothing in Business, American Association of Family and Consumer Sciences (AAFCS)
- Interior Design baccalaureate, Council for Interior Design Accreditation (CIDA)
- Mathematics education baccalaureate, National Council of Teachers of Mathematics (NCTM)
- Middle School-Junior High School baccalaureate, National Middle School Association (NMSA)
- Music baccalaureates, National Association of Schools of Music (NASM)
- Nursing baccalaureate programs, Commission on Collegiate Nursing Education (CCNE)
- Occupational Safety baccalaureate, accredited by the Applied and Natural Science Accreditation Commission of ABET, <http://www.abet.org>
- Occupational Safety and Health baccalaureate, accredited by the Applied Science Accreditation Commission of ABET, <http://www.abet.org>
- Public Relations baccalaureate, Certification in Education for Public Relations (CEPR)
- Social Studies baccalaureate in education, National Council for the Social Studies (NCSS)
- Special Education, baccalaureate in education, Council for Exceptional Children (CEC)
- Teacher Education baccalaureate programs, Council for the Accreditation of Educator Preparation (CAEP)
- Theatre baccalaureate programs, National Association of Schools of Theatre (NAST)

UCM has earned the following specialized accreditations for these graduate-level programs:

- Business graduate programs, The Association to Advance Collegiate Schools of Business (AACSB) - International
- Commission on English Language Program Accreditation (CEA)
- Clinical Mental Health / School Counseling Graduate Programs, Council for Accreditation of Counseling and Related Educational Programs (CACREP)
- Educational Leadership; Principal and Superintendent graduate programs, Educational Leadership Constituent Council (ELCC)
- Educational Technology graduate program, International Society For Technology in Education (ISTE)
- Industrial Hygiene graduate program, accredited by the Applied Science Accreditation Commission of ABET, <http://www.abet.org>
- Industrial Management graduate program, Association of Technology, Management, and Applied Engineering (ATMAE)
- Library and Information Services graduate programs, American Association of School Libraries (AASL)
- Literacy graduate program, International Literacy Association (ILA)
- Music graduate programs, National Association of Schools of Music (NASM)
- Nursing graduate programs, Commission on Collegiate Nursing Education (CCNE)
- Occupational Safety Management graduate program, accredited by the Applied Science Accreditation Commission of ABET, <http://www.abet.org>
- Speech-Language Pathology master's program, Council on Academic Accreditation in Audiology and Speech-Language Pathology (CAA)
- Teacher Education graduate programs, Council for the Accreditation of Educator Preparation (CAEP)
- Technology graduate program, Association of Technology, Management, and Applied Engineering (ATMAE)

The university has institutional membership in:

- American Association of State Colleges and Universities
- American Association of University Women
- American College & University President's Climate Commitment

- Association of American Colleges and Universities
- Association for Gerontology in Higher Education
- Association of Governing Boards of Universities and Colleges
- Council for Opportunity in Education
- Council of Graduate Schools
- Council on Public Higher Education for Missouri
- Council on Social Work Education
- Council on Undergraduate Research
- Higher Learning Commission
- Institute of International Education
- International Association for Management Education
- International Relations Council
- International Technology and Engineering Educators Association
- Mid-America Intercollegiate Athletics Association
- Midwestern Association of Graduate Schools
- Missouri Academy of Science
- Missouri Campus Compact
- National Collegiate Athletic Association
- National Collegiate Honors Council
- National Council for Accreditation of Teacher Education
- The Renaissance Group

In addition, UCM has earned the following specialized distinctions:

- Chemistry baccalaureate, American Chemical Society (ACS) approved

Admissions

High School Students. Students admitted to UCM are expected to have completed a 24-unit Missouri core curriculum requirement, have a minimum 2.00 high school grade point average, and either have a 21 or higher on the ACT (or SAT equivalent) or an admissions index score of at least 100. The admissions index score is obtained by combining high school class percentile rank and the national percentile rank of the ACT score. UCM superscores ACT and SAT scores, meaning that that highest subscore from all official ACT or SAT tests will be combined to calculate a new, super composite score. The ACT superscore is the average of the highest math, science, reading, and English subscores. The SAT superscore is calculated using the highest math score and the highest evidence-based reading and writing (EBRW) score from all SAT attempts. Applicants who do not meet regular admissions requirements will be considered on an individual basis. All admitted students will be assessed for the purpose of placement in reading, writing, and math courses which will provide an appropriate challenge for their level of preparedness and enhance their opportunity for success.

Superscore: The University of Central Missouri will Superscore students' ACT scores. This means if a student takes the ACT more than once the highest subscores are pulled from each test to make a new superscore. This method will be used for admission to the university, placement in reading/writing/math courses, and for the merit-based Red & Black Scholarship. High school students have until the June ACT of their senior year to take advantage of this. Students will need to provide all updated ACT scores to the UCM Admissions office before classes begin in order for the calculation to be made on their behalf.

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 24 units of college preparatory work, including these courses:

1. Four units of English with an emphasis on writing skills
2. Three units of mathematics (Algebra I and beyond)
3. Three units of science (one must be a laboratory course in biology, physics, or chemistry)
4. Three units of social science
5. One unit of fine arts
6. Three additional academic units including practical arts (1), physical education (1), health education (1/2) and personal finance (1/2)
7. Seven units of electives (2 units of a single foreign language are strongly recommended)

GED/HiSET Applicants. General Education Development (GED) test scores may be used as a basis for admission to the university. Beginning in 2014, the test to establish high school equivalency is the HiSET. (For more information see *GED Applications and HiSet Applications*, on this page below.)

From Other Colleges and Universities. Students who are in good academic standing (minimum 2.00) at other regionally accredited colleges and universities may apply for admission and transfer appropriate credit. Students are required to provide UCM with official copies of transcripts from all prior colleges and universities attended. Failure to disclose a transcript may result in dismissal from UCM. (See *Transfer Credit* in the *Types of Credits* section.)

International Applicants. All international students interested in applying to UCM must do so directly through the Graduate and International Student Services (GISS) office (660-543-4092, WDE 1800). (See *International Student Admissions*.) Students covered under Deferred Action for Childhood Arrivals (DACA) should apply for admission through the Office of Undergraduate Admissions (660-543-4290, WDE 1400).

How to Apply

The Office of Undergraduate Admissions (660-543-4290, WDE 1400) must receive all admission applications and supporting documents (such as official transcripts) prior to the first day of class. Transcripts are considered official when they are sent directly from the sending school via mail (in a sealed envelope), fax, email, or approved electronic service such as the National Student Clearinghouse, Parchment, or eScript. Official transcripts must be sent from all prior institutions attended. Failure to disclose a transcript may result in dismissal from UCM.

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 admission process may be completed well in advance of enrollment. Each student should submit the following credentials to the Office of Undergraduate Admissions:

1. A completed application for admission
2. An official high school transcript mailed or sent electronically directly from the high school to the university Office of Undergraduate Admissions
3. American College Test (ACT)/SAT scores, including subscores and composite
4. \$30 application fee
5. If applicable, official transcripts from any colleges or universities where dual credit coursework was completed.

Admissions will make a decision based upon the 6th, 7th, or 8th(final) semester high school transcript and will permit enrollment for one semester. However, freshmen must provide a final high school transcript before being permitted to enroll in subsequent semesters.

UCM Advantage Program. The UCM Advantage Program provides a unique opportunity to freshmen students who demonstrate promise but do not meet traditional admission criteria: the experience of

attending a four-year university with the individualized support needed to succeed. Each year, a select group of students will be conditionally admitted to the program. Students admitted to this program are admitted to the university on academic probation. Students must earn a first semester GPA of at least 2.00 to return to UCM the following semester. For more information about the program contact the Office of Undergraduate Admissions (660-543-4290, WDE 1400) or visit ucmo.edu/ae/ucmadvantage.

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. Those applying within two years of high school graduation must also submit ACT or SAT scores.

GED Applications. Applicants should submit a completed application, \$30 application fee, and official GED test results. A score of 2250 is required for admission. A score of 225 is required for students who took the GED prior to 2002. An ACT score of 21 is required for students who would have graduated from high school in the past two academic years. Students not meeting these requirements will have their applications reviewed on an individual basis.

HiSET Applications. Applicants should submit a completed application, \$30 application fee, and official HiSET test results. A minimum score of 75 is required with scores of 15 in each of the five subtests. An ACT score of 21 is required for students who would have graduated from high school in the past two academic years. Students not meeting these requirements will have their applications reviewed on an individual basis.

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 Undergraduate Admissions from each college or university previously attended. Post-baccalaureate students can be admitted after submitting a transcript showing an earned bachelor's degree, although all other transcripts must arrive before classes begin. Students from other college and universities who do not have an earned bachelor's degree must submit all transcripts before application processing will begin. Failure to disclose a transcript may result in dismissal from UCM. Transfer students with less than 24 hours of earned, accepted, post-high school college credit must also submit an official high school transcript. If high school graduation occurred or should have occurred within the past two academic years official ACT scores must also be submitted.

UCM posts and accepts all transfer grades (A-F) from official transcripts received by regionally accredited institutions. All course work will be posted under the UCM academic term that corresponds with the academic term at the transfer institution. These grades are counted in a student's cumulative GPA and are taken into consideration for academic standing calculations. "W" grades (withdrawals) are not posted to the UCM transcript and developmental or remedial work is evaluated on an individual basis. Students who have testing credit (CLEP, AP, IB, etc.) applied to another school's transcript must submit original test scores to UCM's Testing Services Office (660-543-4919, HUM 216) for consideration for credit at UCM. UCM's repeat policy, not the repeat policy of the transfer institution, will be applied to any course repeats. See details of the *Repeat Enrollment in Courses* policy in this catalog.

Admission requires students to be in good standing and to have a minimum grade point average of C (2.00). Any student who does not have a transfer GPA of 2.00 may be granted admission on academic probation. Central Missouri's Office of Undergraduate 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 Undergraduate Admissions (660-543-4290, WDE 1400) with final official transcript(s) from each university attended before being permitted to enroll in subsequent semesters.

An academic renewal program is available for students who wish to exclude prior transfer work from their UCM record. This program is available only to new undergraduate transfer students and applies to domestic undergraduate transfer work. To qualify for this program, a student must not have been enrolled at any college or university for the previous six regular semesters (fall and spring) preceding application for admission. The following requirements apply to this program:

- Students may utilize the benefits of academic renewal once.
- Students who use the academic renewal program for transfer credits may not later/also use the program towards UCM credits. Students who have previously used the academic renewal program for UCM credits may not later/also apply the program to transfer credits.
- Once the academic renewal has been implemented, it cannot be rescinded.
- Coursework will be excluded by academic term, as determined by UCM credit acceptance procedures. All attempted credit from the selected terms will be excluded, including any earned credit.
- Coursework excluded does remain on the academic transcript, but does not count in the grade point average.
- Any prior earned credit that is excluded will need to be repeated to count towards a degree requirement or if needed as a prerequisite course for enrollment in future courses.
- Academic renewal will not change "student type" (how a student is classified at UCM).
- A new transfer student may be required to petition for Transfer Credit Academic Renewal to be admitted due to not meeting admissions requirements. Students who otherwise meet admissions requirements will not be required to nor restricted from petitioning.
- Students must petition and be approved for Transfer Credit Academic Renewal through the Office of Undergraduate Admissions. Students may obtain petition paperwork from the Office of Undergraduate Admissions (660-543-4290, WDE 1400).
- Upon receipt of a completed petition, students will be required to participate in a meeting via phone or video conference with a staff member from the Office of Admissions. A decision regarding the petition will be made after this meeting.
- All appeals of this policy will be reviewed by the Director of Undergraduate Admissions.
- Petitions must be received by:
 - July 15 for fall admission
 - December 15 for spring admission
 - April 15 for summer admission

In addition to the requirements above, students should be aware of related financial aid and scholarship implications. Students should consult with the Student Financial Services Office (660-543-8266, WDE 1100) to understand any federal or state financial aid implications. Students who have ever received GI Bill benefits at any institution should work with Military and Veteran Services (660-543-8776, UN 117). Any scholarship awards following Transfer Credit Academic Renewal will be determined by the awarding bodies.

International Applications. All international students interested in applying to UCM must do so directly through the Graduate and International Student Services office (660-543-4092, WDE 1800). (See *International Student Admissions*.)

Exception to Admissions Policies. All requests for exception to undergraduate admissions policies must be presented to the Director of Undergraduate Admissions (660-543-4290, WDE 1400).

Readmission/Returning Students. Students who have been away from UCM (not suspended or dismissed) for one regular semester (fall or spring) or longer need to submit a readmission application to the Office of Undergraduate Admissions. Students who do not attend during the summer semester do not need to reapply. No additional application fee is required. Students must submit transcripts from all colleges attended that are not yet on file. Failure to disclose a transcript may result in dismissal from UCM. After a review of the academic records students will be notified as to whether they have been readmitted.

Students who have graduated from UCM and wish to return to pursue another undergraduate degree or teacher certification must reapply to UCM as a post-baccalaureate student. Students who have graduated from UCM and wish to return to take undergraduate courses for other reasons should reapply as a special credit student. No additional application fee is required.

Reinstatement. The reinstatement of students who have been suspended or dismissed from UCM is not automatic or guaranteed. Petitions for reinstatement are reviewed by the appropriate college or center based on the degree program a student has selected for reinstatement. Students in the Intensive English Program (IEP) who wish to petition for reinstatement must contact the English Language Center at iep@ucmo.edu.

The reinstatement petition can be accessed in MyCentral in the Student tab, Records and Registration section. For the best selection of courses, students should submit a petition in March for summer or fall semester reinstatement and in October for spring semester reinstatement. Petitions will be considered through the following deadlines:

Fall semester: July 15

Spring semester: November 15

Summer semester: April 15

The petition includes a written portion which should include an explanation of the circumstances that led to poor academic performance and an explanation of activities and plans which may lead to improved academic performance in the future. Other substantiating evidence may also be requested. No additional application fee is required. Students must submit transcripts from all colleges attended that are not already on file with UCM. Failure to disclose a transcript may result in dismissal from UCM. After a review of the petition, academic records, and any other substantive evidence available, students will be notified of the reinstatement decision. Some colleges may require students to meet personally with a reinstatement review board.

Students may petition for reinstatement as follows:

1. Students who have been suspended may petition for reinstatement after sitting out one fall or spring semester (summer session does not count as a semester for suspension purposes). Students who have been dismissed may petition for reinstatement after one calendar year.
2. A student with documented extenuating circumstances who has been suspended or dismissed may petition for immediate (or early) reinstatement. Petitions for early reinstatement may not be submitted via MyCentral. Students seeking this should contact the dean of their college directly for consideration. Early reinstatement is rarely granted and only applies for extenuating circumstances for which supporting evidence can be provided.

Undergraduate Certificate Students

Students who are seeking only an undergraduate certificate (this does not include teacher certification) and not an undergraduate degree must still meet regular admissions requirements (see sections above). Students pursuing only a certificate are not eligible for financial aid.

Visiting 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. The application process is the same as that for a full-time university student (see How to Apply.) Students who wish to take classes prior to the summer before their senior year will be reviewed on an individual basis.

NOTE: A student pursuing a high school diploma is not eligible to receive federal or state financial aid for classes taken at the University of 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. For questions, please contact Extended Studies (HUM 410, 660-543-4984). Unofficial transcripts from the student's primary institution(s) are required.

At the completion of the course or courses at UCM, the visiting student should request that UCM's Registrar's Office (660-543-4900, WDE 1000) send an official transcript to the certifying institution. Courses taken at UCM for the purpose of transfer to another institution will apply toward hours on a degree or certificate at UCM should regular admission status be desired. These hours might not meet specific major, minor or general education requirements. The admission application and supporting documents must be received in the Office of Undergraduate Admissions prior to the first day of class in order to be considered for regular admission for that semester.

Visiting students are not eligible to receive federal or state financial aid from UCM, the "host" school. Financial assistance for which a visiting student may be eligible is processed and disbursed by the student's "home" school, the college or university at which the student has been admitted to pursue a degree program.

Senior Citizens

Missouri residents who are 65 years of age or older 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 Extended Studies class offerings, such as online courses.

Enrollment will be allowed no sooner than five days prior to classes beginning and on a space-available basis only. Contact the Office of Student Financial Services at 660-543-8266 (WDE 1100) for further information.

Non-Degree Students

Students who do not fit into one of the student categories above and are simply interested in taking classes but not interested in pursuing a degree program may be admitted as a "special" student. This group of students would also include those students who already have earned a degree and wish to take additional classes for fun or to meet requirements for graduate/professional programs or to earn alternative student teacher certification. Students who are a "special" student type and non-degree seeking are not eligible for financial aid. In order to apply, students must submit the application for admission. For questions, please contact Extended Studies (HUM 410, 660-543-4984). Unofficial transcripts from the student's prior institution(s) will be required if enrollment in courses with prerequisites is desired.

International Student Admissions

The Application Process. All international students interested in applying to UCM must do so directly through the Graduate and International Student Services (GISS) office. All questions regarding international admissions should be forwarded to International Admissions at 660-543-4092 or GISS@ucmo.edu.

Applicants should apply online at admissions.ucmo.edu/apply. International students are strongly encouraged to submit their online application and required supporting materials as early as possible. Individuals whose applications are complete on or before the deadlines listed below are given priority for processing and scholarship consideration.

Fall application deadlines:

- Students coming from their home county: July 1st
- Transfer students: July 15th

Spring application deadlines:

- Students coming from their home county: October 15th
- Transfer students: December 1st

Summer application deadlines: (for the following programs: Intensive English Program, Computer Science, Computer Information Systems & Information Technology, Technology, and Industrial Management, Cybersecurity)

- Students coming from their home county: April 1st
- Transfer students: May 1st

International undergraduate applicants must submit the following items:

1. Application for admission
2. \$75 (US dollars) non-refundable application fee
3. Demonstration of English proficiency. Proficiency may be demonstrated by one of the following:
 - TOEFL exam score of 500 PBT/61 IBT*
 - IELTS Academic exam score 5.5*
 - PTE academic score of 44*

*score requirements subject to change

TOEFL scores must be submitted by Educational Testing Services (ETS) directly to the University of Central Missouri's Testing Center. The ETS code for the University of Central Missouri is 6090. IELTS scores should also be sent electronically to UCM. The IELTS School Organization code for the University of Central Missouri is 136009. In cases where electronic submissions of test scores are not possible, official scores may be sent directly by mail to:

University of Central Missouri
Testing Center
Humphreys 216
Warrensburg, MO 64093
USA

The Demonstration of English Proficiency requirement is waived in cases where applicants have earned a degree from an appropriately regionally accredited college or university in the US or have earned at least 24 regular semester hours of university credit from a regionally accredited US college or university. Additionally, this requirement is waived for applicants who are citizens of countries where English is the official language.

International applicants who meet minimum UCM entry requirements but do not meet minimum English proficiency requirements for regular UCM admission may be granted conditional admission. Conditionally admitted students must maintain full-time enrollment in UCM's Intensive English Program until the minimum TOEFL/IELTS requirement is met or the highest level of the Intensive English Program is successfully completed. Full-time status for UCM's Intensive English Program is 6 credit hours (20 contact hours) per 8-week session. Institutional TOEFL/IELTS results earned at other institutions are not valid at UCM. International students not meeting minimum UCM English proficiency requirements are not permitted to enroll in regular classes.

4. **Official Transcripts.** All undergraduate students are required to upload unofficial transcripts to their student portal (created upon application submission) and submit official transcripts to our office. These transcripts will be used for advisement purposes. Applications with questions about credential evaluation requirements should contact the Graduate and International Student Services office directly via email: GISS@ucmo.edu
5. **Declaration of Financial Support.** This document is required to demonstrate sufficient financial support.
6. **Official Bank Statement/Certification.** This document is required as verification that adequate funds are currently and subsequently available to students in support of their tuition and living expenses while a student at UCM.

A GPA of at least 2.00 is required to be considered for admissions. UCM does post and accept all transfer grades (A-F). These grades are counted in a student's cumulative GPA and are taken into consideration for academic standing calculations. Students who have testing credit (CLEP, AP, IB, etc.) applied to another school's transcript will have to submit original test scores to UCM's Testing Services Office (660-543-4919, HUM 216) for consideration for credit at UCM. UCM's repeat policy, not the repeat policy of the transfer institution, will be applied to any course repeats. See details of the *Repeat Enrollment in Courses* policy in this catalog.

English Language Center. The English Language Center (ELC), whose Intensive English Program is accredited by the Commission of English Language Program Accreditation (CEA), offers intensive instruction in English and short-term programs for English language studies. For students who do not meet UCM's English proficiency requirements, the Intensive English Program (IEP) provides courses to improve English language skills and become accustomed to a university setting in the United States. The courses are designed to help non-native speakers of English build on their existing language skills. The IEP offers courses at a variety of proficiency levels in reading, writing, listening, speaking, grammar, vocabulary, pronunciation, testing skills, American culture, and academic preparation. These courses are available for credit or may be taken as pass/fail, and do not count toward completion of an academic degree. Full-time status for UCM's Intensive English Program is 6 credit hours (20 contact hours) per 8-week session.

Orientation. All international students admitted to UCM for the first time are required to arrive on campus on a set date (typically 8-10 days prior to the first day of classes) for orientation and evaluation sessions. During the orientation sessions, any international student whose native language is not English may be required to undergo further English evaluation. Depending upon evaluation results, students may be required to enroll in the Intensive English Program or in prerequisites for English Composition (ENGL 1020). The school-initiated oral and written English evaluations are waived if the student presents one of the following:

1. Secured a minimum TOEFL score of 580 (PBT) or 92 (IBT), an IELTS Academic score of 5.5
2. Earned a degree from an appropriately regionally accredited United States college or university
3. Earned at least 24 semester hours of regular university credit from an appropriately regionally accredited United States college or university

Health Insurance. All international students are required to participate in the Student Health Insurance Program.

Immunizations. All students at the University of Central Missouri must have proof of two Measles, Mumps and Rubella (MMR) vaccinations. All students living in University Housing must have proof of Meningitis vaccination after the age of 16. All students must be screened in the United States for tuberculosis infection.

All vaccinations and tuberculosis screening can be obtained during the Health Screening portion of orientation.

Financial Aid. All international applicants are automatically considered for financial aid awards. The value of individual awards varies and is dependent upon academic merit and available funding levels. All awards are made at the time of admission to UCM. Please note that international students do not typically qualify for US-based federal or state financial assistance unless designated as 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 Services (660-543-8266, WDE 1100) to determine the student's eligibility of financial aid. Students admitted to UCM are eligible for scholarship consideration and/or continuation based upon meeting minimum criteria established by UCM's Office of Student Financial Services. More information regarding scholarships is available online at ucmo.edu/scholarships.

Planned Placement

Central Missouri wants to ensure that all students are placed in academic courses for which the student is academically prepared. For this reason Planned Placement criteria have been developed to make placement decisions that facilitate student success. Three core components of the ACT exam (reading, writing, and mathematics) are considered for Planned Placement.

All students must be placed according to university policy. Students admitted without a recent ACT or SAT score (within the last five years) are automatically placed and enrolled into introductory reading, math, and writing courses. Placement testing is available to students wishing to challenge their placement to determine the preparedness of the student for college-level courses in reading, mathematics, and writing.

Students may also opt to begin in lower level coursework. For example, a student with an ACT Math score of 26 does not have to enroll in MATH 1151, but may opt to take any lower-level math course. Students who would like to have their skills assessed before making a course choice are encouraged to do so.

English and math requirements vary by major. Students should follow the curriculum for their major as outlined in this catalog or consult with their success advisor regarding course selection.

For more information about planned placement or skills assessment testing contact:

Testing Services
Humphreys 216
660-543-4919 or testingservices@ucmo.edu
ucmo.edu/testingservices

Planned Placement criteria are as follows:

Students must enroll in and successfully complete:	If they have an:

English	
ENGL 1000 - Introduction to College Writing (3)	ACT English score 15 or below; SAT Writing score New/Old 22/390 or below; Accuplacer Sentence Skills Score 83 or below; Accuplacer Next-Gen Writing Score 236 or below. (A grade of D or better is required in ENGL 1000 to progress into ENGL 1020.)
ENGL 1021 - Writing Workshop (2) Co-requisite course: ENGL 1020 * <i>* Must take courses concurrently.</i>	ACT English score 16-17; SAT Writing New/Old 23-24/400-420; Accuplacer Sentence Skills Score 84-91; Accuplacer Next-Gen Writing Score 237-249.
ENGL 1020 - Composition I (3)	ACT English score 18 or above; SAT Writing score New/Old 25/430 or above; Accuplacer Sentence Skills Score 92 or above; Accuplacer Next-Gen Writing Score 250-269; or ENGL 1000 with a grade of D or better.
ENGL 1080 - Advanced Composition (3)	ACT English score 26 or above; SAT Writing score New/Old 33/590 or above. Accuplacer Sentence Skills Score 114 or above; Accuplacer Next-Gen Writing Score 207 or above. Students in majors that require CTE 3060 as the second writing course should not opt for ENGL 1080.
Reading:	
EDFL 1830 Intro to Academic Literacy	ACT Reading score 18 or below; SAT Critical Reading New/Old 20/360 or above. Accuplacer Reading Score 85 or above; Accuplacer Next-Gen Reading Score 261 or below.
Mathematics - Non-Algebra Track	
MATH 1020 - Fundamentals of Mathematics (3)	ACT Math score 16 or below; SAT Math Section New/Old 430/390 or below; New SAT Math Test 21.5 or below. Accuplacer College Level Math Score 34 or below; Accuplacer Elementary Algebra Score 75 or below; Accuplacer Next-Gen AAF Scores 219 or below; Accuplacer Next-Gen QAS Score 236 or below. (A grade of C or better is required in MATH 1010 to progress into ACST 1100 or MATH 1101.)
ACST 1100 - Essential Skills for ACST 1300 * MATH 1510 - Essential Skills for MATH 1520 * MATH 1610 - Essential Skills for MATH 1620 * MATH 1810 - Essential Skills for MATH 1820 * <i>* Must take the course with its associated pathway concurrently.</i>	ACT Math score 17-21; SAT Math Section New/Old 440-540/400-510; New SAT Math Test 22.5-26.5. Accuplacer College Level Math Score 35-49; Accuplacer Elementary Algebra Score 76-115; Accuplacer Next-Gen QAS Score 237-249; Accuplacer Next-Gen AAF Scores 220-229; or a grade of C or better in MATH 1010 - Fundamentals of Algebra (3). (With a grade of C or better in MATH 1101 a student may progress into general education level ACST or MATH courses.)

<p>MATH 1215 - The Mathematics of Decision Making GE (3) ACST 1300 - Basic Statistics GE (3) MATH 1520 - Mathematical Reasoning and Modeling (3) MATH 1620 - Intro to Geometry & Decision-Making for Educators (3) MATH 1820 - Introduction to Numbers and Operations for Educators GE (3)</p>	<p>ACT Math score 22 or above; SAT Math Section New/Old 550/520 or above; New SAT Math Test 27.5 or above; Accuplacer College Level Math Score 50 or above; Accuplacer Elementary Algebra Score 116 or above; Accuplacer Next-Gen AAF Scores 230 or above; Accuplacer Next-Gen QAS Score 250 or above. MATH 1101 - Intermediate Algebra (3) with a grade of C or better; or co-enrollment in ACST 1100.</p>
<p>Mathematics - Algebra Track</p>	
<p>MATH 1010 - Fundamentals of Algebra (3)</p>	<p>ACT Math score 16 or below; SAT Math Section New/Old 430/390 or below; New SAT Math Test 21.5 or below. Accuplacer College Level Math Score 34 or below; Accuplacer Elementary Algebra Score 75 or below; Accuplacer Next-Gen AAF Score 219 or below; Accuplacer Next-Gen QAS score of 200-249. (A grade of C or better is required in MATH 1010 to progress into ACST 1100 or MATH 1101.)</p>
<p>MATH 1101 - Intermediate Algebra (3)</p>	<p>ACT Math score 17-21; SAT Math Section New/Old 440-540/400-510; New SAT Math Test 22.5-26.5. Accuplacer College Level Math Score 35-49; Accuplacer Elementary Algebra Score 76-115; Accuplacer Next-Gen AAF Score 220-239; Accuplacer Next-Gen QAS score of 250-300; or a grade of C or better in MATH 1010 - Fundamentals of Algebra (3). (With a grade of C or better in MATH 1101 a student may progress into general education level ACST or MATH courses.)</p>
<p>MATH 1110 - Essential Skills for MATH 1111 (2) *</p> <p><i>* Must take the course with MATH 1111 concurrently.</i></p>	<p>ACT Math score 19-21; SAT Math Section New/Old 500-540/460-510; New SAT Math Test 25-26.5; Accuplacer College Level Math Score 42-49; Accuplacer Elementary Algebra Score 97-115; Accuplacer Next-Gen AAF Score 230-239; or a grade of C or better in MATH 1010 - Fundamentals of Algebra (3). This course must be taken concurrently with MATH 1111 - College Algebra (3) .</p>
<p>MATH 1111 - College Algebra GE (3)</p> <p>MATH 1150 - Pre-Calculus Mathematics GE (5)</p> <p>MATH 1112 - Trigonometry *</p> <p><i>* Please note MATH 1112 does not satisfy UCM's general education math requirement.</i></p>	<p>ACT Math score 22 or above; SAT Math Section New/Old 550/520 or above; New SAT Math Test 27.5 or above; Accuplacer College Level Math Score 50 or above; Accuplacer Elementary Algebra Score 116 or above; Accuplacer Next-Gen AAF Score 240-262. MATH 1101 - Intermediate Algebra (3) with a grade of C or better; or co-enrollment in ACST 1100.</p>

MATH 1131 - Applied Calculus GE (3)	ACT Math score 24 or above; SAT Math Section New/Old 580/560 or above; New SAT Math Test 29 or above; Accuplacer College Level Math Score 75 or above; Accuplacer Next-Gen AAF Score 263-275; or MATH 1111 - College Algebra GE (3) with a grade of C or better.
MATH 1151 - Calculus I GE (5)	ACT Math score 26 or above; SAT Math Section New/Old 610/590 or above; New SAT Math Test 31 or above; Accuplacer College Level Math Score 90 or above; Accuplacer Next-Gen AAF Score 276 or above; or MATH 1112 - College Trigonometry (2) or MATH 1150 - Pre-Calculus Mathematics GE (5) with a grade of C or better.
Chemistry	
CHEM 1131 - General Chemistry I (5)	ACT Math Score 24 or above; SAT Math Section New/Old 580/560 or above; New SAT Math Test 29 or above; Accuplacer College Level Math Score 75 or above; Accuplacer Next - Gen AAF Score 263-275.

The specific Accuplacer tests given at UCM are "**Sentence Skills**" for English, "**College Level Math**" for Mathematics and "**Reading**" for Reading course placement.

UCM also accepts the Accuplacer "*Elementary Algebra*" test for course placement as specified above, but UCM does not accept the Accuplacer "*Arithmetic*" test.

Test scores AND pre- or co-requisite courses are required for course placement. Altering course sequence (e.g. receiving placement and grade in MATH 1010, but wanting to skip MATH 1101) requires a qualifying placement score. Check program and degree requirements prior to enrolling.

SAT and ACT-Compass scores may also be used in course placement. Score requirements may change based on state guidelines and/or institutional policy.

Types of Credits

UCM Credit and Transfer Credit

There is no limit to the number of UCM or transfer credit hours applied to an undergraduate degree. Students must meet a minimum number of hours in residence at UCM for degree completion.

UCM Credit

UCM credits are hours earned through on-campus courses and online courses. This also includes courses completed at the UCM Lee's Summit campus and other UCM sites.

Dual Credit

Dual credit is a course which enables a high school student to simultaneously receive both high school and college-level course credit. Dual credit can be earned either at UCM or from a transfer institution. Dual credit

is transcribed both at the high school and at the college from which it is earned. UCM's dual credit courses are taught in high schools throughout Missouri, online, or over interactive television by university faculty or by school approved adjunct faculty. Courses approved for dual credit by the college schools include the use of the syllabus, textbook, teaching methodology, and student assessment strategies. Course content and course requirements are comparable to those utilized in the equivalent on-campus courses with the same titles.

Dual credit students are provided tuition at a reduced rate, access to the James C. Kirkpatrick Library both online and in person, and access to many other campus resources. Information about UCM's dual credit program can be found online at ucmo.edu/dualcredit, by calling the Dual Credit Office at 660-543-4876 or in person (HUM 401). Dual credit grades do factor into UCM academic standing.

Students who complete dual credit at a transfer institution must have an official transcript sent to the UCM Office of Undergraduate Admissions (660-543-4290, WDE 1400) for admission to UCM. UCM posts and accepts all transfer grades (A-F). These grades are counted in a student's cumulative GPA and are taken into consideration for academic standing calculations. UCM's repeat policy, not the repeat policy of the transfer institution, will be applied to any course repeats. See details of the UCM Repeat Policy in this catalog.

Transfer Credit

Students are required to provide UCM with official copies of transcripts from all prior colleges and universities attended. This includes any international transfer institutions (see *International Transfer Credit* section). Failure to disclose a transcript may result in dismissal from UCM. In awarding transfer credit from Missouri institutions, Central Missouri follows the Credit Transfer Guidelines for Student Transfer and Articulation among MO College and Universities (Missouri CBHE, April 2013). Credit will be accepted from an institution which is a candidate for accreditation, through a regional accrediting commission, if credit was awarded during a term of the candidacy. Students who wish to appeal the decision of the University of Central Missouri in the articulation of transfer credit from another domestic, regionally accredited institution of higher education may contact the Office of Undergraduate Admissions (WDE 1400, 660-543-4290). Questions about international transfer credit should contact the Office of Graduate International Student Services (WDE 1800, 660-543-4092) directly via email at GISS@ucmo.edu.

All undergraduate college-level coursework attempted at regionally accredited institutions (and appropriately accredited international institutions) and corresponding grades will be included on the UCM transcript of degree-seeking students. "W" grades (withdrawals) are not posted to the UCM transcript and developmental or remedial work is evaluated on an individual basis.

UCM does post and accept all college-level transfer grades (A-F). These grades are counted in a student's cumulative GPA and are taken into consideration for academic standing calculations. UCM's repeat policy, not the repeat policy of the transfer institution, will be applied to any course repeats. See details of the UCM Repeat Policy in this catalog.

Transfer credit will retain the leveling and credit hours total as designated by the original granting institution regardless of whether a UCM equivalent's leveling or credit hour total is different. All courses taken at a two-year college and any 1000/2000 level courses taken at a four-year institution will not be applicable toward upper-level hour (3000/4000 level) requirements, even if these courses are articulated as UCM upper-level courses or are used as substitutions for upper-level UCM courses. Quarter hour transfer courses will be converted to semester hours at the rate of 1 quarter hour = 2/3 semester hours.

Students who hold an Associate of Arts (A.A.), an Associate of Arts in Teaching (A.A.T.), a bachelor's degree from an appropriately regionally accredited institution **in Missouri** (including post-baccalaureate UCM students), or who have met the Missouri 42-hour General Education Core requirements are considered to have met all 42 hours of Central Missouri's requirements in General Education, including state

law requirements, Section 170.011 RSMO Supp (1988) (the constitutions of Missouri and the United States) and HB 1528/Section 170.013 the Higher Education Civics Achievement Examination.

Students who hold one of the degrees mentioned above from an appropriately regionally accredited institution **outside of Missouri** have met the Missouri 42-hour General Education Core requirements but must pass an exam on the constitutions of Missouri and the United States and the Higher Education Civics Achievement Examination. The constitutions of Missouri and the United States test is offered online, at no cost by the School of Social Sciences and Languages (Wood 203). Testing information can be obtained by calling 660-543-8840. The Higher Education Civics Achievement Examination is offered online through Blackboard, at no cost by the UCM Testing Center (HUM 216). Testing information can be obtained by calling 660-543-4919.

Transfer students who have completed an A.A., A.A.T, a bachelor's degree from an appropriately regionally accredited institution in the United States (including post-baccalaureate UCM students), or the Missouri 42-hour General Education Core must also complete any major- or minor-specific General Education courses and Competency 10 of the UCM General Education which is fulfilled by a course designated in each major. The state of Missouri requires certain General Education courses for teacher certification. These requirements are outlined for each teacher education major in Programs Alphabetically

For students with an associate's degree other than the A.A. or A.A.T. (such as the A.S.), the university reviews transcripts and accepts applicable credit on a course-by-course basis.

International Transfer Credit

International transfer credit of all levels (undergraduate and graduate) and for all students (domestic and international) is handled by the Graduate and International Student Services Office. (GISS). All non-US transcripts should be submitted to GISS for authentication and evaluation. Applicants with questions about transcript evaluations should contact GISS via email at GISS@ucmo.edu or by calling 660-543-4621.

Military Service-Related Transfer Credit

Military service-related credit is posted as transfer credit and does not count towards upper-level hours requirements. This credit is denoted with a grade of CR (credit) on the Central Degree Audit and UCM transcript. Military service-related credits are not limited to a particular number of hours awarded and do not count towards the 30 hours of maximum CR credit explained under *Other Types of Credit*.

Credits from the Community College of the Air Force (CCAF)

Students with CCAF credit should have official transcripts sent to the Office of Undergraduate Admissions (WDE 1400, 660-543-4290).

Credits from the Joint Services Transcript (JST)

Credits earned by service personnel in specialized training programs of the United States Army, Navy, Marines or Coast Guard under certain circumstances may be accepted. The guidebook published by the American Council on Education (ACE) is used to determine the credit value. Official Joint Services Transcripts (JST) should be sent to the Office of Military and Veteran Services (UN 117, 660-543-8776) which will review and determine the appropriate credit, if applicable.

Elective Transfer Credit

Courses already determined to have UCM equivalents will be applied on the UCM transcript upon receipt of an official transcript from the credit granting institution. Accepted transfer courses that have no UCM equivalents will be deemed elective courses and appear with an ELCT course prefix on the Central Degree

Audit and transcript. Any ELCT course accepted for more than 0 credit hours (e.g., not remedial or developmental) does count towards the degree hours, but will require further evaluation to fulfill a particular major, minor, or general education course. To have an elective transfer course considered for articulation to one of UCM's courses, students may contact articulation@ucmo.edu.

For courses unable to be articulated, students may seek a course substitution. For substitutions in the General Education requirements, students should meet with their success advisor (660-543-4621, UN 128). For major or minor requirements and General Education courses required by the major or minor, students should visit with the school chair of the major or minor to discuss possible substitutions.

Graduate-Level Credit

Courses completed at the graduate level cannot be applied to undergraduate degree programs* and may not be repeated for undergraduate credit. *Exceptions apply to some graduate-level courses for students enrolled in accelerated degree programs.

Other Types of Credit

Other types of credit include: credit for prior learning, credit by exam, credit for official certifications, licenses, and diplomas, and validated credit. Students must be currently enrolled as a degree or certificate seeking student at UCM to be awarded these types of credit. Credit will be posted after the enrollment period for the semester had ended (typically during the second week of the semester).

Students may count a combined total of 60 credit hours of SC and CR credits towards their degree. Each type of credit, SC and CR, is limited to 30 credits. Military service-related credits, as noted above, and credits from certain consortium programs (Radiologic Technology/Medical Laboratory Science) do not count towards the 30 hours of maximum CR credit.

These types of credit involve credit only and do not include a letter grade. Therefore, credit only has an impact on hours earned and not on grade point average. With the exception of some of the credits from certain consortium programs (Radiologic Technology/Medical Laboratory Science), credit earned from these types of experiences does not count towards residency hours or upper-level hours at UCM.

Credit for Prior Learning (CPL)

In certain circumstances, UCM will award credit for prior learning (CPL) based on recommendations from the National College Credit Recommendations Services (NCCRS) and the American Council on Education (ACE). This type of credit is denoted with a CR on the Central Degree Audit and transcript. Students must request an assessment to determine if credit is possible and provide written documentation supporting their request for credit. Students interested in obtaining CPL should contact Extended Studies' Director of Academic Outreach (HUM 410, 660-543-8926) for guidance and assistance.

Credit by Exam

Credits by exam are based on nationally normed standardized exams (such as AP, IB, and CLEP). This type of credit is denoted with an SC on the Central Degree Audit and transcript.

Nationally Normed Standardized Exams

The following exams are those accepted for review at UCM for possible course credit. Tests marked by an asterisk (*) are administered by UCM's Testing Services.

- Advanced Placement (AP) (apstudent.collegeboard.org)
- *College Level Examination Program (CLEP) (clep.collegeboard.org)
- DANTES/DSST (getcollegecredit.com)
- International Baccalaureate (IB) (IBO.org)
- *Language Testing International (LTI) (<https://www.languagetesting.com/lti-information/general-test-descriptions>)
 - Oral Proficiency Interview (OPI)
 - Writing Proficiency Test (WPT)
- *Math-for-Credit exams (for MATH 1111 and MATH 1620)

Requirements for Course Credit by Examination

- Only test scores obtained within the past 10 years are accepted.
- Not all exams have a course equivalent at UCM.
- Only official test score reports sent from the test company directly to Testing Services, Humphreys 216 will be reviewed. Please check with the testing company on how to send official scores.
- Exam scores sent prior to the students first semester will not be applied.
- Students are responsible for contacting Testing Services (testingservices@ucmo.edu or 660-543-4919, HUM 216) to ensure credit has been received and applied during their first semester at UCM.
- Students must score at or above the level established by the university to receive course credit by examination.
- Course equivalencies must be available as established by university faculty to receive course credit by examination.
- Course credit by examination cannot be applied to upper-level hour requirements or in-residence hours.
- Course credit by examination that would result in duplicate credit will not be granted.
- Course credit received by examination may or may not apply to a degree program.
- Students seeking course credit by examination when currently enrolled in the course must complete the exam prior to the 100% refund date for the course.

Course Credit by Examination from Other Institutions

Course credit by examination from other institutions is not automatically transferred to UCM. Review course credit by examination equivalencies on ucmo.edu/testing-services or contact Testing Services (testingservices@ucmo.edu or 660-543-4919, HUM 216) to determine if a course equivalent for the exam taken is available at UCM. If a course equivalent is available and the test score is less than 10 years old contact the test company to request an official score report be sent to Testing Services. The score report will be reviewed to determine eligibility for credit.

Credit for Official Certifications, Licenses, and Diplomas

In certain instances, academic schools 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 Vice Provost for Academic Programs and Services toward the fulfillment of degree requirements in a major or minor. Appropriate university schools 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. Paperwork signed by the academic school chair, college dean,

and Vice Provost for Academic Programs and Services will be submitted by the academic school to the Registrar's Office for processing. This type of credit is denoted with a CR on the Central Degree Audit and transcript.

Validated Credit

A student is able to earn college credit by demonstrating specific competencies. These tests or measurements vary by school and are free to the student. Validated credit is an option within three areas of the General Education program: Composition (for ENGL 1020, if ENGL 1080 is passed with a grade of C or higher), Modern Foreign Language, and Mathematical Reasoning. See the appropriate school for more information. Validated credit is denoted with a CR on the Central Degree Audit and transcript.

Housing

The University of Central Missouri requires students to reside in university housing for two years and have a specified meal plan. Residency status is also satisfied by the student being 21 years of age or older, junior or above status (60 or more earned hours), current active duty military service, on-campus residency for two academic years, residing with a parent or grandparent within 50 miles of Warrensburg, or a newly admitted transfer student with 48 or more UCM accepted credit hours.

On-Campus Housing

The University of Central Missouri provides a variety of on-campus housing opportunities. Our accommodations attract a substantial number of junior and senior level students. Early application for housing is recommended.

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 campus. Students may choose from a variety of housing options. Most halls are air-conditioned.

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 30 or more UCM-accepted credit hours or those over 21 years old may live in upper-class 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 limited and available at an additional cost.

In the residence halls, students in each pair (suite) of rooms share a private bath. Each student room has cable television capability and wired and wireless Internet access. All rooms are furnished with desks, beds,

mattresses, chairs, draperies or blinds, a chest of drawers and mirror. However, residents may bring additional items to make their rooms more home-like. Residents have ready access to washers and dryers. Mail is delivered regularly to the main desk at each residence hall. Lounge areas and recreation facilities are open to all residents. Residence hall 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.

Upper-class/Graduate/Family Housing Apartments. Furnished one-bedroom apartments are available for upper-class students. A University apartment application along with a \$100 deposit (\$75 is refundable) is required to be placed on the waiting list. Apartments are assigned off waiting lists. University apartment agreements are for the academic year. To reside in an apartment over the summer, a student must either be enrolled for summer classes or pre-enrolled for the subsequent fall semester. The rental rate for the furnished apartments includes all utilities, Internet (including wireless) and expanded basic cable.

Unfurnished apartments are available for students who are married, a single parent with children living with him/her full time, a graduate student, or an undergraduate student who is 20 years of age or sophomore status or above. A university apartment application along with a \$100 deposit (\$75 is refundable) is required to be placed on the waiting list and all apartments are assigned off of the waiting lists. University apartment agreements are for the academic year. To reside in an apartment over the summer, a student must either be enrolled for summer classes or pre-enrolled for the subsequent fall semester. The rental rate for the unfurnished apartments includes water, sewer, trash, Internet (including wireless), and expanded basic cable. Students are responsible for gas and electric service.

Meals. 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 eight sororities live in Panhellenic Hall. Similarly, the Fraternity Complex accommodates eight fraternities.

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.

Nondiscrimination/Equal Opportunity Statement

The University of Central Missouri actively follows a policy of nondiscrimination in regard to age, race, color, religion, sex, sexual orientation, gender identity or expression, marital status, pregnancy or parental status, national origin, veteran status, genetic information, disability, and all other legally protected classes. This policy applies to educational programs and activities including athletics, instruction, grading, the awarding of student financial aid, recruitment, admission, employment, housing, placement and retention of students, faculty, and staff. The university complies with applicable federal and state laws and regulations related to discrimination.

Persons having inquiries concerning the university's compliance with this policy or any laws and regulations prohibiting discrimination are directed to contact the following: For Title IX related questions contact any of the following:

Associate Vice Provost for Student Experience and Engagement (Acting Title IX Coordinator)
Office of Student Experience and Engagement, 214 Administration Building
University of Central Missouri, Warrensburg, Missouri 64093
660-543-4114

The Director of Human Resources (Deputy Title IX Coordinator)
Office of Human Resources, 101 Administration Building
University of Central Missouri, Warrensburg, Missouri 64093
660-543-4255

The Senior Associate Athletic Director/Internal Operations (Deputy Title IX Coordinator)
203 Multiple Purpose Building
University of Central Missouri, Warrensburg, Missouri 64093
660-543-4310

Office of Civil Rights, Kansas City Office:

Office for Civil Rights U.S. Department of Education
One Petticoat Lane 1010 Walnut Street, 3rd floor, Suite 320
Kansas City, MO 64106
Telephone: 816-268-0550
FAX: 816-268-0599; TDD: 800-877-8339
Email: OCR.KansasCity@ed.gov

For ADA/504 related questions please contact:

The Director of Accessibility Services (ADA/504 Coordinator)
Accessibility Services, Union 222
University of Central Missouri, Warrensburg, Missouri 64093
660-543-4421

Toll free numbers for Relay Missouri are 711 or 800-735-2966 for TTY, and 866-735-2460 for voice callers. For further information on notice of non-discrimination, visit ED.gov at <http://wdcrobcop01.ed.gov/CFAPPS/OCR/contactus.cfm> for the address and phone number of the office that serves your area, or call 1-800-421-3481.

No individual will be subject to any form of retaliation, discipline, or other adverse action for reporting conduct in violation of the university's nondiscrimination policy, assisting/cooperating in making a complaint, or assisting with the investigation of a complaint. Any individual who believes they have experienced or witnessed retaliation should immediately notify the appropriate member(s) of the administration as identified in this statement.

Institutional and Financial Consumer 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 <https://www.ucmo.edu/consumer-information/index.php>.

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 fees and expenses is available from the Office of Student Financial Services (Ward Edwards 1100, 660-543-8266) or by visiting ucmo.edu/sfs.

University Fees

Please refer to the Tuition and Fees section of the Student Financial Services website for the current fees.

Missouri Residency - Questions regarding Missouri residency should be directed to the Office of Undergraduate Admissions, Ward Edwards 1400 (660-543-4290 or admit@ucmo.edu).

Off Campus and Online Classes - Fees vary for courses offered off-site and through the use of distance learning technologies. Refer to the Tuition and Fees section of the Student Financial Services website for the current fees.

Special Fees

The following fees are paid only for special purposes or because of certain conditions.

Graduation Fee (billed to all students during their final semester)	\$50.00
Graduation Walk Early Fee	\$50.00
Graduation Walk Late Fee (per each semester late)	\$50.00
Early or late final examination fee per final (by permission)	\$10.00
Transcript Review Fee for Teacher Certification	\$35.00
Transcript (per official copy)	\$10.00
Dale Carnegie First Transcript (subsequent are \$10 each)	\$50.00
Replacement or Duplicate Diploma	\$25.00
Electronic Diploma (paper diploma included in regular graduation fee)	\$10.00

Supplemental Course and Program Fees

Certain 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. Residency for attendance at a community college, obtaining a driver's license or serving in the Missouri Guard will not necessarily mean a residency determination for fee purposes at UCM.

Applications and additional information are available for undergraduate students in the Office of Undergraduate Admissions (WDE 1400, 660-543-4290) and for graduate students in the Graduate and International Student Services office (WDE1800, 660-543-4621).

Financial Responsibility

Students have the primary responsibility for paying all charges incurred due to class enrollment, room and board choices, and fines. Full payment due dates are published on the Office of Student Financial Services 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 additional fees being charged. Payment plan fees are added to the student account 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 charges, visit ucmo.edu/sfs.

Refund Policy

Reduced Load. Refunds of instructional fees for student-initiated reduction in class load will be processed after the third week of classes. Refund deadlines may vary per class based on the start and end dates of the course. Students should consult the dates available in MyCentral for the specific refund deadlines for each of their courses. These are available in the Student tab, Records and Registration section in the Registration block using the "Check Refund and Withdrawal Dates" link.

No refund of instructional fees will be made for student-initiated reduction in class load after the last day to drop with a 25% refund.

If a fee amount would be reduced due to load changes caused by failure of classes to materialize, class cancellation by the university, or from drops for the Enrollment Validation Policy, 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.

NOTE: Students participating in a Study Abroad program, when permitted to withdraw from a course, will not receive any refund.

The following refund schedule for instructional fees applies:

For fall and spring semester full-semester classes (16 weeks)*:

- Withdrawal during the first four days of classes: full refund
- Withdrawal during day five through day eight of classes: 50 percent refund
- Withdrawal during day nine through day twelve of classes: 25 percent refund

For fall and spring semester half-semester classes (8 weeks); summer 8-week (session S9K) and 12-week (session SFM) classes*:

- Withdrawal during the first three days of classes: full refund
- Withdrawal during day four through day six of classes: 50 percent refund
- Withdrawal during day seven through day nine of classes: 25 percent refund

For classes in any semester that are 7 weeks or less*:

- Withdrawal during the first two days of classes: full refund
- Withdrawal during the third day of classes: 50 percent refund
- Withdrawal during the fourth day of classes: 25 percent refund

For off-schedule classes*:

The refund (100%, 50%, and 25%) schedule for off-schedule classes depends on the course start and end dates. Students can find the deadlines for their particular courses online in MyCentral. These are available in the Student tab, Records and Registration section in the Registration block using the "Check Refund and Withdrawal Dates" link.

*Holidays, student breaks, and weekend days are not included in the refund schedules.

NOTE: In accordance with federal regulations, a financial aid recipient who officially or unofficially withdraws from UCM may 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/participation for the semester.

Refund Appeals. A student who has completely withdrawn from UCM (all classes in a semester) and believes that a refund greater than the established schedule states should be issued may submit a written request to the Office of Student Experience and Engagement (ADM 214, 660-543-4114). Students who have dropped one or more courses for a semester, but not all classes may use the refund petition form in MyCentral. This can be found in the Student tab, in the Student Financial Services section, in the block Financial Services Forms. 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.

Withdrawal. Students who find it necessary to withdraw from UCM (drop all courses in a semester) must complete the withdrawal survey located in MyCentral in the Student tab under Records and Registration to initiate the withdrawal. For additional information please contact the Office of Enrollment Management (WDE 1000, 660-543-4644). International students must notify Graduate and International Student Services (WDE 1800, 660-543-4092) prior to beginning the process of withdrawal from the university.

Financial Assistance

To help an individual reach his or her educational goals, the University of Central Missouri offers a variety of federal, state, and institutional 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 Services annually processes over \$103 million in assistance to 87 percent of the students who attend the university. 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 by February 1st each year to be considered for state aid.
- Apply by April 1st each year to be considered for Supplemental Education Opportunity Grant and Federal Work Study.
- Comply with all financial aid instructions, policies, and requests for follow-up information and documents
- Contact the Office of Student Financial Services with any questions:

In person: Ward Edwards 1100

Telephone: 660-543-8266

Fax: 660-543-8080

Web site: ucmo.edu/sfs

Federal and state financial assistance may be used to help pay direct educational expenses, such as tuition/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 with the student and his or her family. Any other assistance received must be included and could impact a student's eligibility for federal aid. 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, Federal Supplemental Educational Opportunity Grant, and Access Missouri Grant) are types of assistance that normally do not have to be repaid.

Loans The Federal Stafford Loan and Federal PLUS (parent) Loan are types of low-interest loans that must be repaid, but 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 or off-campus. Information about available Federal Work-Study positions, as well as university-funded student employee positions, is available from the UCM Office of Career Services (WDE 1200, 660-543-4985).

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)** each year. A student files the FAFSA online at fafsa.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 Services. 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 the federal processor from the FAFSA data. Once this calculation has been completed, financial aid is awarded to help meet the individual's level of need. The student is then notified by email of his/her award package, which is accessible in the MyCentral portal. The notification process begins in December for UCM's earliest FAFSA applicants and continues throughout the year.

Scholarships

Over \$8.8 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 non-Missouri residents.

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 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 document or engages in serious misconduct which warrants substantial disciplinary penalty.

For information about scholarships associated with specific majors, students should contact the academic school offering the program of study. For general undergraduate merit scholarship information, visit ucmo.edu/scholarships or the UCM Office of Student Financial Services, 1100 Ward Edwards Building, 660-543-8266.

In addition to scholarships from the academic schools, privately funded scholarships are extremely important in helping students to achieve their academic goals and inspiring them to become leaders in their community, state and nation. Generous donors have advanced the university's academic excellence by establishing nearly 600 scholarships to help students at all levels: from high school graduates beginning college to undergraduate students working on bachelor's degrees and graduate students pursuing advanced study.

For information about scholarships available through the UCM Foundation, visit ucmo.edu/foundation/scholarships. The application deadline for most UCM Foundation scholarships is March 1. Students may apply for UCM Foundation scholarships at ucmo.edu/mocents.

15-to-Finish Scholarship

The 15-to-Finish Scholarship is part of UCM's Learning to a Greater Degree Contract. Degree-seeking freshmen and transfer students who began attending UCM in the Fall 2019 or Spring 2020 semesters will be considered for this scholarship during their final semester at UCM. This scholarship is being discontinued after the Spring 2020 semester. The amount of the scholarship is \$1000 for students who began as new freshmen and \$500 for students who began as new transfers. The 15-to-Finish scholarship will be credited to students' university accounts during their graduation semester (summer graduates will receive the scholarship in the spring semester prior to their final semester). Students must maintain full-time enrollment

at UCM each fall and spring semester, graduate in eight or less semesters from the first semester they started attending college (after high school graduation), and submit their UCM graduation application by the appropriate deadline: November 15 for spring and summer graduates or April 15 for fall graduates. Details of the 15-to-Finish Scholarship may be found at ucmo.edu/scholarships.

Other Assistance

Many scholarships from a wide variety of sources are awarded each year to undergraduate students. Information and applications are available at ucmo.edu/scholarships. Financial aid recipients should be aware, however, that receiving non-UCM financial aid or educational benefits can result in an adjustment to the federal aid that may have already been awarded and/or disbursed.

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. The University of Central Missouri is an active participant. MSEP permits legal residents of Indiana, Michigan, Minnesota, North Dakota and Wisconsin to enroll at UCM 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 UCM, ACT/SAT score, etc. Complete information about MSEP eligibility is available from the Office of Student Financial Services, Ward Edwards 1100, 660-543-8266. Or can be found at ucmo.edu/sfs/scholarships under the Transfer students heading.

Non-Resident Fee Credit

If a non-resident 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 made against the non-resident student fees normally charged to the student. For information about this credit contact the UCM Office of Undergraduate Admissions, Ward Edwards 1400, 660-543-4290.

Choose Red Grant

The Choose Red Grant allows admitted students whose permanent residence is one of the eight states bordering Missouri to pay in-state tuition and fees for all classes on the main campus in Warrensburg. Missouri's eight eligible border states are: Arkansas, Illinois, Iowa, Kansas, Kentucky, Nebraska, Oklahoma, and Tennessee.

Satisfactory Academic Progress

Federal regulations require that every student who wishes to continue receiving financial aid must maintain satisfactory academic progress toward the completion of his or her degree or certification program. Satisfactory academic progress for financial aid purposes is defined as successfully completing at least two-thirds of the credit hours attempted during a school year and is checked each May after all spring semester grades have been posted. Undergraduate students must maintain at least a 2.00 cumulative grade point average to remain eligible for federal assistance. Undergraduate and Post-Bac students must complete their degrees within the following parameters: 1. Undergraduate 180 hours 2. Post Bac. Students should be aware that certain state financial assistance programs may require a recipient to maintain more stringent 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 personal money on hand when beginning classes each semester to help pay incidental costs during the first week or two of classes. If an emergency arises, a student can apply for short-term loan funds, against their anticipated refund, at the Office of Student Financial Services, 1100 Ward Edwards Building. This assistance must usually be repaid within 60 days and is only available to students who have excess financial aid above their cost. A service charge of \$10 is levied to borrow from the UCM Short-Term Loan Fund, but no interest is charged.

Veteran Services

The University of Central Missouri office of Military and Veteran Services is a liaison between students requiring veteran services and the Veterans Administration offices in St. Louis and Kansas City.

Support is also provided to students enrolled at UCM 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).

UCM is in compliance with the requirements of PL 113-146 the Veteran Access, Choice and Accountability Act of 2014, Section 702. UCM ensures in-state tuition/in-district rates to uniformed service veterans and their qualified dependents covered under Section 702.

For recipients of Chapter 31 and Chapter 33 of the G.I. Bill™, the University will not impose any penalty, including the assessment of late fees, the denial of access to classes, libraries or other institutional facilities, or the requirement that a Chapter 31 or Chapter 33 recipient borrow additional funds to cover the individual's inability to meet his or her financial obligations to the institution due to the delayed disbursement of tuition or mandatory fees payment by the U.S. Department of Veterans Affairs. See Section 103 of the Veterans Benefits and Transition Act of 2018 for the chapter.

For information or assistance completing the proper documentation to ensure VA educational benefits are received in a timely manner, contact Military and Veteran Services:

Office Location: Union 117
Telephone: 660-543-8990, Fax: 660-543-8044

Student Rights and Responsibilities

Philosophy of Academic Standards

To maintain standards which foster an atmosphere of academic excellence:

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

Central Missouri grants degrees and/or certificates 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 and certificates. These requirements must be completed before a degree or certificate is granted. The staff of the university will assist students in understanding and meeting these requirements, but the individual student is responsible for fulfilling them. Therefore, it is important for each student to be familiar with the requirements pertaining to the degree or certificate being sought and to remain informed throughout the period of enrollment. The success advisors, faculty advisors, and Registrar's Office can be of assistance in this process.

The approved method of communication between the university and students is through the use of the campus email system. Each student is assigned a campus email address (Example: abc12340@ucmo.edu). Students are responsible for checking this email account regularly. Many offices no longer send paper mailings. Information regarding deadlines, grades, holds, graduation status, and academic standing are no longer sent by paper mail.

In addition to email, students are responsible for reading messages posted to their account in MyCentral in the form of both Campus Announcements and Personal Announcements. Campus Announcements are general notices sent to all students on campus and may not apply to each student. Personal Announcements are directed towards a particular student or a small group of students.

Academic Honesty and Plagiarism

Academic honesty is a prerequisite for academic achievement; all members of the academic community are expected to act in accordance with this principle. The university recognizes plagiarism as a serious academic offense. The university's policy on academic honesty may be found in the *UCM Student Handbook*. Students must be aware that the consequences of violating standards of academic honesty are extremely serious and costly and may result in the loss of academic and career opportunities. Students found to have committed violations against academic honesty face removal from university classes and degree/certificate programs, and/or suspension from the university.

Family Educational Rights and Privacy Act

Central Missouri adheres to the federal Family Educational Rights and Privacy Act (FERPA). Information about the act can be found at <https://www2.ed.gov/policy/gen/guid/fpco/ferpa/index.html>. Additional information can be found on the Registrar's Office web page at ucmo.edu/registrar/ferpa.

UCM faculty and staff, under the rules of FERPA, will not release academic information about a student to anyone unless written permission is granted from the student.

This includes but is not limited to:

- Grades (student progress reports or final grades, grades on assignments/tests)
- Grade point averages (cumulative, UCM, major, minor)
- Academic Transcripts
- Central Degree Audit Reports
- Course schedules (including classes enrolled in, number of credit hours enrolled in)

- Course assignments and tests

The above items are never released to agencies or persons outside the university without the written consent of the student. Students who wish to give consent for the release of their academic information may fill out an Authorization to Release Educational Records form with the Office of the Registrar in the Ward Edwards Building, Suite 1000 (660-543-4900, registrar@ucmo.edu).

Directory information is not generally considered harmful or an invasion of privacy if disclosed. The university does not sell student directory information; however, unless a student requests in writing to the contrary, federal law permits the university to release the following directory information to the public without the student's consent:

- Name
- Mailing and permanent address
- Telephone numbers
- Email addresses
- Photo
- Date and place of birth
- County, state, or U.S. territory from which the student originally enrolled
- Major field of study
- College
- Class (junior, senior, etc.) (but not particular number of hours earned)
- Enrollment status (full-time, part-time, etc.) (but not particular number of hours or classes enrolled in)
- Participation in officially recognized activities and sports
- Weight and height of members of athletic teams
- Dates of attendance and anticipated date of graduation
- Degrees/certificates and awards received
- The most recent previous educational agency or institution attended by the student
- Honors information (graduation with honors, not GPA or grades or Honors College membership)

Directory information does not include:

- Social security numbers
- Ethnicity/race/nationality/religion
- Gender
- Parent name and address

Students who wish to suppress public access to their directory information can do so by filling out a *Request to Suppress Directory Information* form and submitting it to the Office of the Registrar in the Ward Edwards Building, Suite 1000. Doing this will remove the student from the online UCM directory which displays only student name and campus e-mail address. Suppressing public access to directory information also means that student names will not be released for Dean's List designations in local newspapers, inclusion in the printed Commencement Program and online graduation lists, or inclusion in lists requested for club participation, employment, or awards.

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 Student Handbook* for information regarding this procedure.

Application for Exception Procedure

All requests for an exception to undergraduate academic university policies and procedures will be processed through the Office of the Registrar. Please refer to the current *Exception Procedure* in the *UCM Student Handbook* for information regarding this procedure.

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. Accessible parking permits are available at the standard student rate when medical verification is presented to Parking Services (306 Broad Street) or Accessibility Services (Elliott Student Union 224).

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 toll free at 800-873-8577.

Tobacco

UCM is a tobacco-free campus to promote the health of the university community, to preserve and protect university property, and to provide a respectful, clean, and safe environment to study, work, and learn. This policy encompasses all tobacco products (traditional cigarettes, e-cigarettes, pipes, cigars, hookah, water pipes, and all other forms of smoke-generating products, chew snus, snuff, etc.) or any nicotine delivery method not approved by the U.S. Food and Drug Administration as nicotine replacement therapy.

Tobacco use is prohibited in all university-owned, leased, or controlled buildings and residences. Tobacco use is also prohibited in all outdoor areas of UCM campus; however, tobacco use is allowed in personal vehicles, at the Keth Memorial Golf Course, and in designated parking lots during designated events such as commencement, sporting or performing arts events. Students, faculty, and employees will be provided, upon request, assistance with identifying tobacco cessation resources, including free information and access to low-cost referral programs, through appropriate campus resources determined by UCM.

University of Central Missouri Drug-Free Schools and Workplace Statement

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 an alcohol and drug testing program 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 govern 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. Information on referral and assistance with alcohol or drug-related problems is available from the Counseling Center (660-543-4060), University Health Center (660-543-4770), or Human Resources (660-543-4255).

Academic Policies

Undergraduate Appeals/Petitions

An undergraduate student may appeal certain decisions related to policy stated in the Undergraduate Catalog. The appeal process will vary depending on the situation. Administrative offices, schools and/or academic units will designate the individual(s) authorized to review the appeal. If the student is not satisfied with the appeal decision, the petition plus any additional information is again reviewed by the appropriate Director and forwarded to the next appropriate body for review.

To ensure compliance with federal and state laws, codes, regulations, and accreditation requirements, the following policies are not subject to appeal by the student:

- The minimum overall grade point averages (UCM, cumulative, major/minor, etc.) required to receive an undergraduate degree or certificate.
- The minimum overall number of semester credit hours required to receive an undergraduate degree or certificate.
- The minimum number of required semester credit hours taken at the 3000/4000 level at the University of Central Missouri to receive an undergraduate degree or certificate.
- The minimum number of semester credit hours completed at UCM required to receive an undergraduate degree or certificate.

Credit Hours

Academic units are measured in credit hours. Most classes are worth three credit hours, but credit hours may vary from 0 to 5 or more depending on the course. A credit hour is an amount of work represented in intended learning outcomes and verified by evidence of student achievement that is not less than: (a) one hour of classroom or direct faculty instruction and a minimum of two hours of out-of-class student work each week for approximately fifteen weeks for one semester hour of credit or the equivalent amount of work over a different amount of time; or (b) at least an equivalent amount of work for other activities as established by the institution, including laboratory work, internships, practica, studio work, and other academic work leading toward the award of credit hours; or (c) institutionally established reasonable equivalencies for the amount of work as described above as represented by verifiable student achievement of intended learning outcomes.

Academic Load

The normal load per semester for an undergraduate student is 15 or 16 semester credit hours. A full-time undergraduate student is one pursuing 12 or more credit hours per semester or nine semester hours in the summer session (12 hours is required in the summer to be considered full-time for financial aid). Most of UCM's undergraduate degrees require 120 credit hours and may be completed in a four year time period if an average of 15 credit hours is earned per semester. Some programs require additional hours, but may still be completed in four years with additional hours per semester or summer classes.

The maximum academic load for fall and spring semesters is 18 semester credit hours for freshmen and sophomores (less than 60 earned hours). Juniors and seniors (60 or more earned hours) in good academic standing may enroll in as many as 19 semester credit hours with the assistance of their success advisor or the Registrar's Office. Freshmen/sophomores desiring to exceed 18 semester hours and juniors/seniors desiring to exceed 19 semesters hours must have the overload approved by their major school chair or the Director of the Success Advising Center (UN 128, 660-543-4721) if no major is declared. Students on academic probation may not enroll in more than 15 semester credit hours during any fall or spring semester or 12 semester credit hours during any summer semester of academic probation.

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

International students must complete a minimum of 12 semester credit hours per semester. Please note that full-time status for UCM's Intensive English Program is 6 credit hours (20 contact hours) per 8-week session. The Graduate and International Student Services Office (GISS) must approve concurrent enrollment for any international student prior to the beginning of each semester. To meet concurrent enrollment requirements, international students must be enrolled in a minimum of six semester hours of work at UCM and at least six semester credit hours of work at another SEVIS-approved higher education institution for a minimum total of 12 semester credit hours of work in a semester.

Summer Course Load Policy

The maximum course load is 12 credit hours for the entire summer semester. Undergraduate students may enroll for more than 12 hours with the approval of their major school chair or if open options, the Director of the Success Advising Center. Twelve hours during the summer semester is considered full-time status for financial aid purposes.

International students are not required to enroll in summer hours unless they are in the first semester of their academic program at UCM. International students beginning their academic program in the summer must complete a minimum of nine credit hours for the entire summer semester. Please note that full-time status for UCM's Intensive English Program is 6 credit hours (20 contact hours) per 8-week session.

Class Attendance

Class participation and attendance are essential for student success. The University has no provisions whereby a student can enroll and receive credit at the University of Central Missouri without having attended and/or participated in class. This principle applies to all courses for which credit is awarded regardless of mode of delivery.

Students are expected to attend all lectures, seminars, laboratories, and fieldwork 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. When absent for three days or more, a

student may ask the Office of Student Experience and Engagement (660-543-4114, ADM 214) to send an informational note to his/her instructors. Neither absence, nor notification of absence, relieves the student of the responsibility for the fulfillment of all course requirements.

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 the student the opportunity to earn full credit for missed work when a student is absent because of participation in approved university activities, university programs (that the student is required to attend), or when absence has been verified by the Office of Student Experience and Engagement. A student must contact his/her instructor on the first day the student returns to class. Instructors may stipulate special attendance requirements in the course syllabus, whenever they do not conflict with the student's right to make up missed work as described above.

When absent due to extenuating circumstances such as documented medical issues, a death in the family, or military order, a student may ask the Office of Student Experience and Engagement to verify the absence. If the absence is verified, the student will be provided a written electronic notice which (s)he may distribute to faculty. It is the responsibility of the student to make the request within a reasonable time frame, distribute the documentation to faculty within two days of receiving it, and to make arrangements with faculty to make up all missed work.

The University Health Center (UHC) does not provide medical excuses and/or Time-In Time-Out slips to students for the purpose of being excused from class. When medically indicated, the health center may recommend a student not attend class. Student Experience and Engagement will be contacted by UHC staff to communicate the recommended absence to the student's instructors.

To be eligible to receive federal and state financial aid, students must have a documented record of attendance in the classes for which they enroll. Registration for classes is, in itself, not sufficient to prove attendance. A student who receives or otherwise benefits from federal or state financial aid, but has no documented record of attendance in the class(es) for which (s)he is enrolled, is not eligible to have received/benefitted from the aid, and will be required to repay all the federal and state assistance credited to his/her UCM account for the semester. For information on return of federal funds, review the Student Financial Services policy.

Students who are not reported as absent during the Enrollment Validation period and never attended a course will receive an "F" grade and are financially responsible for the course. UCM does not have an administrative drop policy to remove students from courses after the Enrollment Validation period.

Classification of Students

Freshmen are defined as those students who have completed zero through 29.9 semester hours of college credit. Sophomores are those who have completed 30 through 59.9 semester hours. Juniors must have completed 60 through 89.9 semester hours. Seniors are defined as all students who have completed a minimum of 90 semester hours.

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 (Elliott Student Union 224, 660-543-4421).

Final Examinations

Final examinations are given at the end of each semester according to a published 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 Provost for Student Experience and Engagement. 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 in MyCentral. A student number and password are required to access MyCentral. Grade reports are not mailed or e-mailed to students from UCM. Official transcripts are processed by the Registrar's Office for a fee. Unofficial transcripts are available for free to students in MyCentral. Unofficial transcripts do not show degrees or certificates earned. Students who have a financial hold on their account may not place orders for official transcripts or view unofficial transcripts in MyCentral. The Central Degree Audit in MyCentral has a Course History feature that is similar to a transcript and is available to students who have financial holds.

Central Degree Audit (DegreeWorks)

The Central Degree Audit (also called DegreeWorks) is the degree audit reporting system used at UCM. The Central Degree produces a report that reflects a student's degree or certificate requirements in a given catalog year and degree or certificate program. It includes both transfer credit and UCM credit and shows a students' progress toward graduation. This report designates the number of credit hours earned, both cumulative and UCM grade point averages, and a listing of courses completed.

Students can access their Central Degree Audit in MyCentral in the Student Records and Registration tab in the Student Profile.

In addition to Central Degree reflecting the student's current academic major(s) and minor(s) (if applicable), students may run a "what-if" degree audit as a way to explore how their current courses completed would apply to different majors, minors, or catalogs. The Central Degree Audit also has a feature called Plans. Students can work with their success advisor to create a plan of study for graduation.

Degree audits will reflect The Honors College requirements for those students accepted into The Honors College. Honors students who take courses outside of the typical honors choices may need substitutions provided from the dean of The Honors College for the audit to reflect them properly.

Degree audits may include double majors and double minors. Students pursuing double degrees can view two different degree audits, one for each degree. Individualized major and minor curriculum is not reflected on degree audits. Students pursuing an individualized major or minor should use the Central Degree Audit for general university requirements and general education requirements and consult their individualized major/minor agreement for major/minor requirements.

Students should run a copy of their Central Degree Audit prior to enrollment in future semesters to see what requirements are remaining. After enrollment, a second degree audit should be run and saved to ensure that the courses scheduled fulfill degree requirements as expected.

Deviations from the major or minor requirements must be approved in writing by the school chair and submitted to the Office of the Registrar to be reflected on the Central Degree Audit.

Degree/Certificate Revocation Policy

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

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

The university president is charged with developing procedures to implement this degree/certificate revocation policy. The president, the provost and the faculty will develop such procedures including the appropriate levels of procedural due process extended to the degree or certificate recipient.

Unauthorized Persons in Classrooms

Persons who are not officially enrolled in a course may not attend any class session without the prior consent of the instructor and the school chair. In unique situations, the instructor and the school chair may, at their discretion, approve a request for a child/guest to attend a class session. In these instances, the student is responsible for supervising the child/guest and for any inappropriate behavior.

Students who have a "U" grade (unfinished work) from a prior semester may finish only the portion of the course remaining. They may not sit through an entire course again in order to complete the unfinished work. Students who need to attend the entire class must re-enroll in the course and pay fees accordingly. An individual who wants to attend a class for no academic credit may do so by following the University's policy on auditing courses.

Academic Standards

Grading System

Only grades A through F impact grade point average. 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 minimal passing quality
- F - Failure to do work of passing quality

CR* - Credit for Official Certifications, Licenses, Diplomas, Military Credit, Validated Credit, Prior Learning, and Work Experience (limited to 30 hours towards a degree, excluding military credit)

LD** - Designates a Late Drop of a course (but not the entire semester schedule), granted for extenuating circumstances after the published last day to withdraw

LW** - Designates a Late Withdrawal of a complete semester's schedule, granted for extenuating circumstances after the published last day to withdraw

NC - No credit granted for course (audit)

NR - No grade reported by instructor

P - Work of passing quality in a-pass/fail course (limited to 9 hours towards a degree)

SC* - Credit by examination (AP/IB/CLEP), etc. (limited to 30 hours towards a degree)

U - Course not completed for justifiable reasons, students may not graduate with a U on their record

W** - Course dropped during withdrawal period

* CR and SC credits do not count towards residency hours or upper-level hours requirements. Up to 30 hours of each type, CR and SC, may be applied to a degree program.

** For more information about withdrawal grades, refer to the section *Changes in Schedules*, and either the Calendar in this catalog or the *UCM Student Handbook*. Course withdrawal and refund dates can also be found in MyCentral in the Student Records and Registration tab, under Registration using the "Check Refund and Withdrawal Dates" link.

Grade Point Averages

In order to receive a degree or certificate, a student must earn a minimum grade point average of 2.00 (C) in each of the following areas:

1. All work attempted (cumulative GPA, includes transfer work)
2. All work attempted at Central Missouri (UCM GPA)
3. All work taken to satisfy major requirements at UCM
4. All work taken to satisfy minor requirements at UCM
5. All work taken to satisfy certificate requirements at UCM

Students must review their degree and major program for all minimum GPA requirements. Several degree programs specify grade standards that may apply to acceptance into a program and/or that must be maintained for graduation from a program. Such special standards are listed under the major programs in the curriculum section of this catalog.

UCM does not freeze grade point average upon graduation. Additional courses taken at the undergraduate level at UCM will continue to impact both the UCM and cumulative GPAs. Additional transfer work will only be applied to the UCM transcript after graduation if a second undergraduate degree program is being pursued at UCM.

Grade Requirements for Program Admission and Graduation

In addition to the general requirements applicable to all areas, several academic programs specify grade standards that may apply to program admission and/or graduation from a program. Such special standards are listed under the major programs in the curriculum section of this catalog.

Computation of Grade Point Average

In order to compute grade point average, total quality 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 quality points.
2. Each semester hour of B is assigned 3 quality points.
3. Each semester hour of C is assigned 2 quality points.
4. Each semester hour of D is assigned 1 quality point.
5. Each semester hour of F is assigned 0 quality points.
6. Each semester hour of CR, LD, LW, P, SC, or W is not considered.
7. Each semester hour of U and NR is not considered until a grade is assigned.

Academic Standing

Student academic standing is determined by both the cumulative GPA and the UCM GPA. Students can find their academic standing in MyCentral and on the Central Degree Audit. Academic standing is calculated at the end of each semester and students who are not in good standing are notified via campus email from the Registrar's Office.

Good Academic Standing

Undergraduate students who have both a 2.00 cumulative and UCM grade point average are in good academic standing and are eligible to enroll for classes.

Academic Probation

A student whose cumulative GPA or total UCM GPA drops below 2.00 will be placed on academic probation. New freshmen admitted to UCM as part of the UCM Advantage Program are admitted 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 success advisor about future enrollments. Students on academic probation may not enroll in more than 15 semester hours during any fall or spring semester of academic probation. Summer enrollment is limited to 12 credit hours.

Removal from Probation

A student placed on academic probation will continue on probation until the UCM GPA and the cumulative GPA are 2.00 or higher. When a student on academic probation raises their UCM GPA and their cumulative GPA to 2.00 or above, the student is removed from probation.

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 (not including summer semester), after which students may petition for reinstatement. Reinstatement is neither automatic nor guaranteed. International students must contact the International Center immediately upon suspension from the university.

Academic Dismissal

A student who has been reinstated from suspension 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 petition for reinstatement. Reinstatement is neither automatic nor guaranteed. International students must contact the International Center immediately upon dismissal from UCM.

Reinstatement. The reinstatement of students who have been suspended or dismissed from UCM is not automatic or guaranteed. Petitions for reinstatement are reviewed by the Success Advising Center (UN 128, 660-543-4721) in conjunction with the program coordinator of the degree program a student has selected for reinstatement. Students in the Intensive English Program (IEP) who wish to petition for reinstatement must contact the English Language Center at iep@ucmo.edu.

The reinstatement petition can be accessed in MyCentral in the Student Records and Registration portal. For the best selection of courses, students should submit a petition in March for summer or fall semester reinstatement and in October for spring semester reinstatement. Petitions will be considered through the following deadlines:

Fall semester: July 15

Spring semester: November 15

Summer semester: April 15

The petition includes a written portion which should include an explanation of the circumstances that led to poor academic performance and an explanation of activities and plans which may lead to improved academic performance in the future. Other substantiating evidence may also be requested. No additional application fee is required. Students must submit transcripts from all colleges attended that are not already on file with UCM, even if classes are in progress. The petition for reinstatement will not be reviewed until all transcripts and updated application are received by the Admissions office. After a review of the petition, academic records, and any other substantive evidence available, students will be notified of the reinstatement decision.

Students may petition for reinstatement as follows:

1. Students who have been suspended may petition for reinstatement after sitting out one fall or spring semester (summer session does not count as a semester for suspension purposes). Students who have been dismissed may petition for reinstatement after one calendar year.
2. A student with documented extenuating circumstances who has been suspended or dismissed may petition for immediate (or early) reinstatement. Petitions for early reinstatement may not be submitted via MyCentral. Students seeking this should contact the Director of the Success Advising Center (UN 128, 660-543-4721) directly for consideration. Early reinstatement is rarely granted and only applies for extenuating circumstances for which supporting evidence can be provided.

Dean's List

To be eligible for the Dean's List, a student must be an undergraduate who earns 12 or more gradable semester hours of residence credit during the fall or spring semesters with a grade point average for the semester of 3.50 or above. During the summer semester a student must be enrolled in nine or more gradable semester hours and achieve a 3.50 or above grade point average. Unfinished (U) grades must be resolved before Dean's List designation can be determined.

Graduation with Honors

Graduation with honors is available for students seeking an undergraduate degree. Undergraduate certificates are not eligible for graduation with honors. To be eligible for graduation with honors, a student must have earned both cumulative and Central Missouri grade point averages of at least 3.50. Those with

cumulative and Central Missouri grade point averages 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. For the purpose of inclusion in the printed commencement program and for recognition at the commencement ceremony, honors will be calculated based on the prior semester's grade point averages because the final semester grades are not turned in by faculty until after the commencement ceremonies. Final determination of graduation with honors will be determined, and reflected on the transcript and diploma, after final grades are calculated.

Grade Appeals

Students who wish to appeal a grade have until the mid-point of the semester following the semester that the grade was issued.

- For grades issued during the fall semester, the appeal must be made before the end of the eighth week of the spring semester.
- For grades issued during the spring semester, the appeal must be made before the end of the sixth week of the summer term.
- For grades issued during any summer session, the appeal must be made before the end of the eighth week of the fall semester.

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 Student Handbook* for information regarding this procedure. This policy is not for reviewing instances where a student has been accused of cheating, plagiarism, or other academic dishonesty. Also not covered by this policy are grievances based on discrimination.

Academic Renewal

Undergraduate students returning to UCM after an absence of three (3) or more calendar years may request academic renewal of prior UCM coursework. The renewal can apply to multiple semesters and will affect only courses taken at UCM prior to the absence. The follow rules apply:

- Does not include transfer work. (There is a separate academic renewal policy for new transfer students at UCM. This policy can be found in the Admissions section of this catalog.)
- Academic renewal does not remove grades from the academic transcript. A notation on the transcript will indicate the academic renewal.
- Any degree requirements met during the designated term(s) will need to be repeated.
- Credit hours forgiven by this policy cannot be used to meet any requirements (prerequisite, graduation, certification, etc).
- Once approved and processed cannot be rescinded.
- Cannot predict how other bodies (graduate school, law school, medical school, etc) will interpret UCM's policy.
- Request must be made no later than one semester prior to degree conferral.
- Final approval is made by the Assistant Vice Provost for Enrollment Management.
- A student cannot request UCM's academic renewal policy if a similar policy from another institution was approved.

Students who receive financial aid must meet with a Financial Aid Counselor in Student Financial Services (WDE 1100, 660-543-8266) to determine how Academic Renewal could impact federal or state financial aid. Awarding of scholarships after Academic Renewal will be determined by the awarding body. Students who have ever received GI Bill benefits at any institution must contact Military and Veteran Services (UN 117, 660-543-8776) regarding the impact of Academic Renewal. Student athletes must contact the

Senior Associate Athletic Director (660-543-4310) to determine how Academic Renewal impacts athletic eligibility and athletic scholarship.

Unfinished Work

Unfinished work is denoted with a U grade on the transcript. The U grade is intended for use either in extenuating circumstances beyond the student's control in the last few days of the semester (illness or death in the family) or if the course is of an individualized nature that requires completion time beyond one semester, e.g., thesis, research report, or similar investigation.

Students with a U grade do not re-enroll in the class during the subsequent or later semester. They simply make up the missing work from the prior semester as arranged with the instructor. Students who need to attend the entire class again will be assigned a letter grade and must re-enroll and pay fees accordingly. Students who have more than one U grade are expected to reduce their 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. Students may not graduate with a U grade on their record.

All U grades will be changed to F grades on the last class day of the subsequent semester if no other grade change has been submitted. Some courses, as designated by the academic schools, may carry the U grade for more than one semester if the course is of an individualized nature, e.g., thesis, research report, or similar investigation.

Extenuating circumstances. An instructor may report a semester grade of U when, for justifiable reasons, the student has not completed the work of the course. For example, if a student has an extenuating circumstance beyond their control during the last week of the course, an extension may be granted at the discretion of the instructor. The grade will remain a U until the instructor has assigned a new grade. If at the end of the next semester (Fall, Spring or Summer) a new grade has not been provided, the U becomes an F. While the grade change does not occur until the end of the semester, instructors may set earlier deadlines for completion of the missing coursework.

Courses of an individualized nature. Some courses, as designated by the academic schools, may carry the U grade for more than one semester if the course is of an individualized nature, e.g., thesis, research report, or similar investigation.

Enrollment Regulations

Changes in Class Schedules

Adding Classes

Students may make changes to class schedules using self-enrollment in MyCentral through the Drop and Add period*. Fall and spring full-semester courses (16-week) may be added through 11:59 p.m. on Thursday of the first week of classes. Fall and spring half-semester courses (8-week) may be added through 11:59 p.m. on Wednesday of the term. Courses may not be added after the Drop and Add period*, unless a late add is approved by the instructor and school chair of the course.

Dropping Classes

Students may make changes to class schedules using self-enrollment in MyCentral through the Drop and Add period* (through the first four days of the semester for full semester fall and spring courses; through the first three days of the semester for half-semester fall and spring courses). Courses dropped during this time will be given a full refund and will not be entered on the permanent record (transcript).

During the Withdrawal period* (fifth day of the semester through the 10th week of fall and spring semesters for full semester courses; fourth day of the semester through the 5th week of the course for half-semester fall and spring courses), a student may drop any class using self-enrollment in MyCentral. Students who have a hold on their account will not be able to process course drops in MyCentral and should see their success advisor, school, or the Registrar's Office for assistance with the drop.

A grade of W will appear on the permanent record (transcript) if the course is dropped during the Withdrawal period* (fifth day of the semester through the 10th week of fall and spring semesters for full semester courses; fourth day of the semester through the 5th week of the course for half-semester fall and spring courses). A grade of W has no impact on grade point average but is reflected on the transcript. In the event that a student has been found guilty of academic dishonesty, a grade of F will be recorded and will impact the grade point average.

Students may wish to consult with a success advisor and/or the course instructor prior to dropping a course. International students must seek approval from Graduate and International Student Services (WDE 1800, 660-543-4092) prior to dropping below a full course load of 12 semester credit hours during any semester. Withdrawal from a course during a Study Abroad program is not permitted during the last one-third of the period.

After the published last day to drop a course, a late withdrawal must be approved by the Registrar's Office. If the student is petitioning to withdraw late from all courses, the petition should be directed to the Office of Student Experience and Engagement. Late withdrawals are by petition only and are only approved for documented, extenuating circumstances (e.g., hospitalization, death in the family) that prevented the student from completing the course(s). If a late withdrawal petition is approved, a grade of LD will be assigned. If a complete withdrawal petition is approved through Student Experience and Engagement (ADM 214, 660-543-4114), a grade of LW will be assigned for every class. The instructors of any courses receiving a grade of LD or LW will be informed of the petition's approval. Grades of LD and LW will not impact the grade point average, but will be reflected on the transcript.

*Some courses are offered on a variable schedule and are not on the half semester or full semester schedule. Course-specific add, refund, and withdrawal dates may be found in MyCentral. These dates can be found in the Student tab in the section Records and Registration, under Registration using the "Check Refund and Withdrawal Dates" link.

Waitlisting a Class

Students who wish to enroll in a course that is full may opt to waitlist the course in MyCentral. Not all courses at UCM offer a waitlist option. For those classes that do not offer a waitlist, see the school chair over the course regarding enrollment. For full semester classes the waitlist ends on the last day to add a class, this is the fourth day of a class. This is also the same day as the last day for a 100% refund for a class. The waitlist for half-semester classes ends on the third day after the start of classes. During the summer semester, the waitlist ends on the last day to add a class for each of the unique summer sessions.

The waitlist is first-come, first served. If a seat becomes available in a waitlisted course, the first person on the waitlist will automatically be enrolled in the course. An email is sent to the student university email account if a course is added from the waitlist. The waitlist will not enroll a student beyond the maximum allowed hours (typically 18 or 19). Nor will the waitlist allow a student to enroll if a time conflict exists between the student's schedule and the waitlisted course.

Students waitlisting a course assume responsibility for taking themselves off the waitlist if they no longer want to enroll in the course. Students are responsible for payment and grades in all classes in which they are enrolled. Find detailed instructions on how to use the waitlist online.

Withdrawal from the University

Students who leave the university must complete the withdrawal survey located in MyCentral in the Student Services tab to officially withdraw from all classes. Additional information can be obtained through the Office of Enrollment Management (WDE 1000, 660-543-4644). International students interested in withdrawing from the University should first speak with an International Student Advisor. To schedule an appointment, please call or visit Graduate and International Student Services (WDE 1800, 660-543-4092). In the event a student fails to initiate this process, his/her withdrawal is not considered complete, grades of F will be recorded for failure to attend classes, and the student is responsible for all charges to their account.

Students seeking a complete withdrawal after the published last day to drop a course must petition Student Experience and Engagement (ADM 214, 660-543-4114). Late withdrawals are done by petition only and are only approved for documented, extenuating circumstances (e.g., hospitalization, death in the family) that prevented the student from completing the courses(s). If a late withdrawal petition is approved, a grade of LW will be assigned and the instructor will be informed of the approval. A grade of LW will not impact the grade point average, but will be reflected on the transcript.

Regulations governing credit for room and board payments are found in the housing agreement. See the Refund Policy for information on the credit of fees. A financial aid recipient who officially or unofficially withdraws from UCM may 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/participation for the semester, as reported by his or her instructors.

Students Called to Military Service

When a military student is called to active service or training, whether voluntarily or involuntarily, prior to the completion of the semester, that student must submit documentation to the Office of Student Experience and Engagement (660-543-4114, ADM 214) and will be eligible for either:

1. The awarding of a "W" in one or more courses and a complete refund of all tuition and incidental fees charged for those courses withdrawn for that semester, or
2. The awarding of a grade, including a "U", in the course or courses by completing assignments away from class that meet course objectives. For a grade, course assignments must be completed by the end of the semester.

If the student has been awarded a scholarship to be used to pursue an academic program and such person is unable to complete the academic term for which the scholarship is granted, that person shall be awarded that scholarship at any subsequent academic term, provided that the person returns to the academic program at UCM at the beginning of the next academic term after the completion of active military service.

If the student chooses the option described in subsection (1), such person may request that the official transcript indicate the courses from which such person has withdrawn and the reason for the withdrawal, or such person may request that all course titles be expunged from such person's record. Choosing the option of a refund shall not affect the person's official academic record or standing at UCM.

If the student chooses the option described in subsection (2), such person shall complete the course work to the satisfaction of the course instructor and UCM. The grade of "U" shall be converted to a failing grade if the person does not apply to complete the course work within six months of discharge or release from active military service. In the event the person cannot comply for medical reasons related to the active military service, such person shall apply to complete the course work within three months of the end of the period of convalescence. Choosing subsection (2) shall not affect the person's official academic record or standing at UCM, unless the person fails to complete the course work.

Holds

Holds may be placed on student records when the university needs a student to meet particular requirements. Holds can prevent registration (course adds and drops) and block the release of transcripts, grades, or diplomas. Common holds include those for academic advising, financial issues, testing, and health center holds.

Students can check for holds on MyCentral in the Student Profile and should contact the office that placed the hold to learn how to resolve the issue. Students should plan to have hold(s) removed prior to their enrollment access date.

Enrollment Validation Policy

Central Missouri enforces an enrollment validation policy. This policy applies to all online, hybrid, and face-to-face classes that begin the first week of classes. The policy also includes any online, hybrid, and face-to-face classes that begin during the first week of second-half semester classes and any of the classes during the five different summer sessions. Dual credit, 0-credit hour classes, internships/practica, thesis/special projects classes, and classes that are off-schedule are not included in this policy. For face-to-face classes, students must attend the first day of each class or have made prior arrangements with their instructors to secure their seat in the course. For online and hybrid classes, students must indicate their intent to attend the course in Blackboard. Students whose instructors report first-day absences will have those classes dropped from their schedule. Students who are not reported absent are responsible for their enrollment in courses including any fees incurred and grades earned. Financial aid recipients who do not attend classes may be required to repay some or all of the assistance credited to their UCM account for the semester.

Enrollment Verifications

Central Missouri has authorized the National Student Clearinghouse to provide enrollment verification certifications for students through MyCentral.

Student Self-Service enables Central Missouri students to print official enrollment verification certifications on demand via a secure student portal, MyCentral, at no charge. These certificates can be sent to health insurers, housing providers, or other organizations requiring proof of enrollment. Students can also check deferment forms and electronic notifications sent to lenders, view their enrollment history, obtain a list of student loan lenders and link to real-time loan information, and view enrollment verifications provided to student service providers at their request.

Repeat Enrollment in Courses

The repeat policy that is applied to repeated courses depends on the date of the final course attempt. Information on prior repeat policies can be found [here](#). For courses repeated during the 2015-2020 school years the following policy applies:

Students may repeat courses regardless of the original grade earned in the course. However, **the most current grade earned will be the only one calculated in the grade point average, even if it is not the highest grade**. For the repeat policy to be implemented, the UCM course must have the same prefix/number and course content. Courses which are repeatable for additional credit (as noted in the course description) such as Special Projects/Topics and Internships/Practica are not eligible for the repeat policy because the course content varies each semester. For courses repeated at transfer institutions, the course must articulate to the original UCM course that was completed.

All previous attempts will not factor into either the grade point average or earned hours (only the most current grade and hours, if applicable, will count), although **all prior grades will remain on the transcript as a matter of record**. *Students should check with school policies regarding course repeats which may be more stringent than the university policy.*

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

1. The UCM GPA includes only courses taken at UCM, however it can be impacted by courses originally taken at UCM and then repeated at another institution. **For courses taken at Central Missouri and then repeated at another institution** the UCM GPA is not impacted by the new grade earned but will be affected by the discounting of the original UCM grade earned. Transfer course work does impact the cumulative GPA. In order for transfer coursework to be considered as a repeat for a UCM course, the transfer course must be articulated to the UCM course.
2. For the UCM repeat policy to be applied to transfer courses taken at two or more transfer institutions, each course from each institution must articulate to the equivalent UCM course.
3. **Credit hours for repeated courses will be counted only once in the number of course hours earned toward a degree or certificate.**

In accordance with federal financial aid regulations, a student may receive federal assistance to repeat a class once for which a passing grade (defined as a "D" or better) has been previously earned. However, there is no limit on the number of times a student may receive federal assistance to repeat a class (if otherwise eligible to do so) for which a grade of "F" has previously been received.

The Pass/Fail Program

Pass/fail is a grading option that may be available to students instead of a traditional letter grade (A-F) under certain circumstances. One objective of pass/fail is to encourage students to experience courses they usually might avoid because of lack of confidence or initial competence. **Students may not opt to take courses in general education, major, or minor as pass/fail.** The following rules apply to courses taken for pass/fail:

1. Students may choose to take up to nine hours of **free electives** for pass/fail credit towards the hours required for graduation. 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. Study abroad credit and classes which are taught only as pass/fail are an exception to this and may count towards the major and minor credit if approved by the major/minor school.
2. Courses which are only offered as pass/fail and study abroad credits taken as pass/fail do not count toward the maximum of nine credit hours.
3. Upon enrollment students may designate the course or courses to be taken as pass/fail using self-enrollment. If pass/fail is not selected during the initial enrollment, students must designate pass/fail by the end of the fifth week of classes or within the first 13 class days for half semester classes. A course designated as pass/fail may not be changed to a graded course after that date.
4. Students who take a class as pass/fail and earn an A, B, C or D will have a P (Pass) recorded on the transcript and the grade will not be calculated in the grade point average, but the credit hours will count towards earned hours. A student who fails will have an F (Fail) recorded on the transcript and the F will be calculated in the grade point average. In cases of academic dishonesty, an F will be recorded at the discretion of the instructor.
5. A school may elect to offer a course for pass/fail credit only. Courses which are only offered as pass/fail do not count towards the maximum of nine credit hours. Courses that are offered only for pass/fail credit are designated in this catalog.
6. Students who plan to study at an institution outside the U.S. (UCM-sponsored Study Abroad) may elect to take all or none of the courses completed abroad as pass/fail credit or letter grade credit. Pass/fail credit must be approved before the study abroad experience. Students need permission to do study abroad coursework as pass/fail from their success advisor for general education requirements or from their school chair for major/minor requirements. Courses taken for

free choice electives do not require approval for pass/fail credit. If the student elects to take any courses (general education, major/minor, free choice elective) for pass/fail credit, he/she must provide written notification to the Study Abroad staff in the International Center before beginning the Study Abroad program. For enrollment changes while abroad, students have until the beginning of the fifth week abroad to notify the International Center of their intent to complete a course as pass/fail.

7. Study tours through Extended Studies are not exempt from the nine-hour maximum.

Auditing 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. Courses taken as an audit will not fulfill degree or certificate requirements and are noted on the transcript with a grade of NC (no credit). Students may audit a course for which they have already earned credit. Students may also audit a course and later take the course for credit.

Course Numbers

Courses offered at the undergraduate level are divided into five categories. In general, the following may be considered guidelines:

level courses are primarily used for skills development and do not count as hours earned toward graduation. These hours also do not count for consideration of full-time status or factor into the **0000-** calculation for Satisfactory Academic Progress (SAP) for financial aid purposes. Grades earned in these courses taken at UCM do factor into the GPA. Grades and hours from zero-level courses from transfer institutions are not posted to UCM transcripts and do not factor into the GPA.

1000- level courses are primarily for freshmen students.

2000- level courses are primarily for sophomore students and those students with required prerequisites or backgrounds.

3000- level courses are primarily for junior students and those students with required prerequisites or backgrounds.

4000- level courses are primarily for senior students and those students with required prerequisites or backgrounds. Courses numbered at the 4000 level are offered only undergraduate credit. A 4000-level course taken as undergraduate credit may not be applied or repeated as a 5000-level graduate credit.

5000- level courses are offered only for graduate credit.

6000- level courses are offered only for graduate credit and require 10 or more semester hours of graduate credit for enrollment.

Graduate-level courses cannot be applied to an undergraduate degree or certificate programs.

Dual Listed Courses

Dual listed courses are linked 4000- and 5000-level courses with different course numbers, but same course name, for either undergraduate credit or graduate credit and offered by the same instructor at the same time, place, and format. While students in both courses have distinct course objectives, assessments, and grading expectations, much of the course content is similar and both classes are functionally combined.

Dual listed courses taken for undergraduate credit may not be used to fulfill graduate degree requirements. Dual listed courses taken for graduate credit may not be used to fulfill undergraduate degree requirements unless the course is part of an accelerated degree program and is identified as such in the undergraduate curriculum. Graduate students should not enroll in a graduate dual listed course if they have previously completed the undergraduate course unless advised to do so by their graduate program coordinator.

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 if they do enroll.

Course prerequisites may be found within the course descriptions here and also in MyCentral when searching for courses. In MyCentral, click on the five-digit course reference number (CRN) of the course and then the course title. Any prerequisites will show at the bottom of the page.

Students who wish to seek enrollment in a course without the prerequisites should contact the School Chairperson over the course for permission and/or enrollment assistance. Only the academic area offering the course may waive prerequisites.

Undergraduate Enrollment in Graduate Courses

NOTE: This policy does not apply to those students accepted into an accelerated undergraduate/graduate degree program.

Undergraduate students may take courses for graduate credit with the following stipulations:

- Must be within two semesters of degree completion
- Must have a minimum of 90 undergraduate credit hours earned
- Must have a minimum undergraduate cumulative grade point average of 3.00
- Limited to two semesters of enrollment in graduate courses before completing an undergraduate degree
- Maximum of 12 hours of graduate credit may be completed before admission to graduate program not to exceed 9 hours of graduate credit in one semester
- May enroll in a maximum of 16 credit hours per fall or spring semester and a maximum of 12 credit hours during the entire summer semester, including both undergraduate- and graduate-level courses
- Must submit an undergraduate application for graduation in MyCentral
- Must submit a non-degree seeking graduate application for admission to the Graduate and International Student Services (GISS) office

- Must complete a Petition for Dual Enrollment each semester

If approval is granted from the program and GISS office (WDE 1800, 660-543-4621), the student will be enrolled in the requested graduate courses. If a student enrolls in graduate credit courses during the last year of the baccalaureate degree, the student should be planning to complete the baccalaureate degree that year. A third semester of graduate enrollment while an undergraduate student will not be allowed.

Graduate-level courses cannot be applied to an undergraduate degree or certificate programs (different rules apply for students in accelerated degree programs). Students will not be fully admitted into a graduate program until their undergraduate degree is completed and graduate program admission requirements are met.

NOTE: For the purpose of qualifying for federal financial aid the student will be classified as undergraduate at the senior level. Students receiving financial aid should be aware that only those classes taken for undergraduate credit can be included when determining the student's 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 until they earn a Bachelor's Degree. Tuition for graduate courses will be at the graduate fee rate. Contact Student Financial Services (WDE 1100, 660-543-8266) for further information.

Degree/Certificate Requirements

Date of Catalog for Checking Degree or Certificate Requirements

Students are subject to current administrative, academic and general policies and regulations. The *2019 Undergraduate Catalog* becomes effective fall semester 2019.

Students may use the *Undergraduate Catalog* as a basis for degree/certificate requirements issued for any semester including or 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 or certificate is conferred. A student must attempt academic credit at UCM during the semester of the catalog chosen or have attended consecutive semesters at another regionally accredited institution of higher education in Missouri. Dual credit enrollment can count to establish catalog year, but students are encouraged to follow the most current catalog available when they begin regular enrollment at UCM. Students may change catalog term at any time during their enrollment, moving to an earlier or later catalog term, as long as they attempted hours during that term. Students considering changing catalog term should consult with their success advisor. 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/certificate candidacy and/or conferral.

General Education Requirements

See The General Education Program section of this catalog for a detailed description and course listing for the UCM General Education Program. The minimum number of required General Education semester credit hours for all students, regardless of their program of study, is 42. Some degree programs may require up to six additional hours of General Education depending on the math, science, and technology courses required.

In addition, some majors and minors have specific required General Education courses. If a major or minor requires specific General Education courses, they are listed in this catalog for each program and are marked with a "GE" symbol.

Should a student change majors or minors from a program that does not require specific General Education courses to a program that does, a student may have to take additional credit hours in one or more of the defined areas of the General Education program if she/he has not taken the specific General Education course listed as a major or minor requirement. Transfer students must also meet all major and minor required general education courses, even if a prior degree or the Missouri 42-hour core (MOTR Core 42) has been completed.

Upper-Level Credit

Upper-level credit is coursework completed at the 3000 and 4000 level. Hours earned as SC or CR credit (AP/CLEP/IB/military credits/work experience/prior learning) do not count towards upper-level credit. Transfer credit will retain the leveling as designated by the original granting institution regardless of whether a UCM equivalent's leveling is different. All courses taken at a two-year college and any 1000/2000 level courses taken at a four-year institution will not be applicable toward upper-level hour (3000/4000 level) requirements, even if these courses are articulated to upper-level UCM courses or used as substitutions for upper-level UCM courses.

Candidates for a bachelor's degree must complete a minimum of:

- 30 total semester hours of upper-level credit
- 20 semester hours of upper-level credit must be earned at UCM
- 12 upper-level hours must be in the major subject, nine of these must be earned at UCM
- One upper-level hour must be in the minor subject earned at UCM

Hours in Residence

Residence requirements establish a minimum number of credit hours which must be earned from UCM. Online courses and courses which are offered off campus but through UCM do count towards residence hours. Hours earned as SC or CR credit (AP/CLEP/IB/military credits/work experience) do not count towards residence hours.

A candidate for any bachelor's degree must have earned the following minimum hours in residence at UCM:

- 30 hours overall
- 20 upper-level hours (3000/4000 level courses)
- 15 hours in the major
- 9 upper-level hours in the major
- 9 hours in the minor (if applicable)
- 1 upper-level hour in the minor (if applicable)
- the last 12 semester hours or any hours during the final semester required for the degree*

A candidate for any undergraduate certificate must have earned at least fifty percent of the certificate hours in residence at UCM.

*Students who have an extenuating circumstance during their final semester may petition to take some of their final hours off campus. The petition is available at ucmo.edu/registrar/standards/hours.cfm. The petition must include the institution where the course(s) will be completed, the course prefix/number at both UCM and the transfer institution, and the reason the student is unable to complete the course through UCM. If the course is part of a major or minor program, the appropriate UCM school will also have to approve the petition. Official transcripts from the transfer institution must be received prior to the deadline for UCM degree conferral. **The deadline to submit the petition is one month prior to start of semester during which coursework is to be taken.**

United States and Missouri Constitutions Requirement (State Law Requirement, Section 170.011)

Missouri state law requirement, Section 170.011 RSMO Supp (1988) requires that all students at public Missouri institutions have a course that teaches the constitutions of Missouri and the United States. Find more information about this requirement at moga.mo.gov/statutes/c100-199/170000011.htm. The following courses in the UCM General Education program fulfill this requirement: HIST 1350, HIST 1351, HIST 1402 and POLS 1510 or POLS 2511 and are denoted with a "#" in the General Education course listing. These courses must be taken from institutions in the state of Missouri. Courses from out-of-state institutions which are articulated or substituted for these courses will not fulfill state law requirement Section 170.011 RSMO Supp (1988). Students who have one of these courses from out of state or who have already fulfilled all nine hours of Knowledge Area III in the general education program may fulfill this requirement by passing an exam on the constitutions of the United States and of Missouri. This test is offered online, at no cost by the School of Social Sciences and Languages (Wood 203). Testing information can be obtained by calling 660-543-8840.

Missouri Higher Education Civics Achievement Examination Requirement (State Law Requirement, Section 170.013)

Missouri state law requirement, Section 170.013 goes into effect Fall 2019 for students pursuing a degree at any public Missouri institution and requires that all students shall successfully pass an examination on the provisions and principles of American civics with a score of seventy percent or greater as a condition of graduation. The subject matter of the 50 question, multiple-choice test includes the US Constitution, the Bill of Rights, and other areas of government and American history. Students may fulfill this requirement by passing an exam offered in Blackboard or by providing proof on an official transcript of having passed the exam at another Missouri higher education institution. This test is offered online, at no cost. Students are encourage to take and pass the test during their first semester at UCM. The test may be taken any number of times until a passing score of at least 70 percent is earned. When the test is passed the requirement will show as fulfilled on the Central Degree Audit and a notation will be added to the student's transcript. Students who have not passed the exam by the time they have reached 60 credit hours will have a hold on their account and be prevented from enrolling in future coursework until the exam is successfully passed. Questions about the content of the test may be referred to the School of Social Sciences and Languages (Wood 203, 660-543-8840). Testing information can be obtained by calling the Testing Center at 660-543-4919.

Application for Graduation

An application for an undergraduate degree or certificate to be awarded must be submitted to the Registrar's Office using the form in MyCentral (available in the Student tab, Records and Registration Section, below the Student Profile). Students should apply for graduation one semester prior to their intended graduation after enrollment has been completed for their last semester (October/November for spring/summer semester graduation and March/April for fall semester graduation). The student's Central Degree Audit should reflect that all remaining requirements are in progress. All curriculum substitutions (if applicable) should be received by the Registrar's Office prior to filing the application for graduation. Applying at this time ensures that students are made aware of any graduation deficiencies prior to the start of their graduation semester.

Graduation applications must be received by the Registrar's Office no fewer than six weeks before the date the degree is to be conferred in order for the student's name to be included in the printed commencement program. Only degree candidate names are included in the program. Certificate candidates are not included.

Degrees and certificates are conferred three times per year: May, August, and December at the end of each semester. Students who complete degree requirements prior to the end of a semester will not have their degrees awarded until the end of the semester. The Registrar's Office may confer degrees and certificates through the following deadlines (or the earliest preceding business day): January 15 (fall semester), May 31 (spring semester), and August 31 (summer semester). Students who fail to apply for graduation or complete all degree/certificate requirements by these dates will have their degree or certificate awarded at the end of the following semester if requirements are completed and an active graduation application is on file with the Registrar's Office.

All students are billed a one-time, non-refundable graduation fee per graduation semester of \$50. Students who earn multiple degrees or certificates in different semesters will be billed each semester. Graduation charges will be placed on student accounts about six weeks before the conclusion of the student's final semester. This fee applies to all graduates and is not dependent upon ceremony participation.

UCM offer's commencement ceremonies two times a year for degree candidates: May and December. Commencement ceremonies are for degree candidates only; students earning only an undergraduate certificate do not participate in the ceremony. All summer degree candidates are invited to participate in the May ceremony if they are enrolled in all remaining requirements. Students who are unable to participate in the ceremony that corresponds with the semester of their graduation due to extenuating circumstances may petition to "walk late" in a later ceremony up to a calendar year after their graduate date. An additional fee of \$50 will be applied to the student's account for each semester after their original ceremony (summer graduates who wish to walk in the December ceremony are not charged this fee). This fee will be applied during the term that they participate in a ceremony.

Questions about applying for graduation or commencement should be directed to the Registrar's Office in WDE 1000, 660-543-4914, or graduation@ucmo.edu.

Participating in a Later Graduate Commencement Ceremony

Students with unusual, extenuating circumstances who are unable to attend the ceremony which corresponds with the semester that their degree is awarded, may submit an Application to Participate in a Later Commencement Ceremony to the Registrar's Office. Ceremony participation may not occur more than one calendar year after a student's actual degree conferral and once approved for a "late walk" students may not change the semester requested. In order to be considered to "walk late" students must already be approved for graduation during the term that they will be completing degree requirements. Students whose requests are approved will be charged a non-refundable \$50 "walk late" fee per semester after the term of degree conferral. This fee is in addition to the regular \$50 graduation fee that is applied to all students' accounts.

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.

Student Activities

From participating in Student Activities events to membership in a fraternity or sorority, UCM has it all! There are many things for students to do on campus including dances, plays, films, concerts, 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

More than 200 registered student organizations exist at Central Missouri. Students are able to affiliate with academic honoraries, school 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, visit the Office of Student Activities, Elliott Student Union 217. To see a list of organizations and descriptions go to the Office of Student Activities Web page ucmo.edu/osa.

Fraternity and Sorority Life

Fraternities and sororities are a special type of student organization that many students choose to join while at Central Missouri. Greek Life offers students the opportunity to develop academic, leadership, and organizational skills, participate in community service, and make lifelong friends. Students join fraternities and sororities through a process called recruitment which typically occurs at the beginning of each semester. Friendship, fun, scholarship, community service, and school spirit - Greek Life has it all! For more information, visit the Office of Greek Life located in Panhellenic Hall, call 660-543-8121 or visit them online at ucmo.edu/GreekLife.

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 14-member Mid-America Intercollegiate Athletics Association (MIAA) and the National Collegiate Athletic Association (NCAA), Division II.

Varsity sports for women are basketball, bowling, cross-country, golf, indoor track, outdoor track, softball, soccer, and volleyball. For men, they are baseball, basketball, cross-country, football, golf, indoor track, outdoor track, and wrestling. (Visit the Office of Intercollegiate Athletics, Multipurpose Building, Room 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. (Visit the Office of Student Activities, Student Recreation and Wellness Center or call 660-543-8595 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 Student Activities, Student Recreation and Wellness Center in Garrison or call 660-543-8595 for information.)

Volunteer Services

Volunteer Services is available for students to match their skills and interests with the community. It is a way for students to utilize their skills and talents to help others give back to the community. There are many reasons and benefits to becoming involved in volunteer services. Students will utilize the volunteer services office to explore ways to continue their service work from past experiences. They will participate in service areas that are related to academic topics. Students will enhance their leadership skills by doing service and it offers them a sense of accomplishment. Some students will become involved in volunteer services when they are searching for service projects to involve their student organization in the community. Volunteer Services also promotes a responsibility to give back to society and helps them achieve a lifetime commitment to service and helping others. For more information about Volunteer Services visit Elliott Union 217 or ucmo.edu/volunteer.

Recreation Facilities

Multipurpose Building

The "Multi," located just west of Audrey J. Walton Stadium, seats up to 10,000 in its arena and provides recreational facilities for students, faculty, and the community. Its basketball area accommodates four courts, five volleyball courts, and a six-lane, 220-yard indoor track. It also has three indoor handball/racquetball courts, a weight room, a six-lane, 25-meter pool with a one-meter diving board, conference rooms, and an activity area.

Pertle Springs

Historic Pertle Springs Park is located one mile south of the main UCM campus on South Holden Street. Pertle Springs is a 300-acre recreational, instructional, and biological research area for UCM students and the community to enjoy. Keth Memorial Golf Course and the Audrey J. Walton Clubhouse are both located in the park. Housed within the Walton Clubhouse is a full-service golf shop and Traditions Restaurant, UCM's newest banquet and dining facility. The golf course is open daily to the general public and features 18 holes of golf, multiple practice greens and a driving range with indoor hitting facilities. Student rates make Keth Memorial Golf Course a great place to relax and enjoy a round of golf with friends! Other popular activities on the wooded grounds include biking, fishing, hiking, and picnicking as well as use of the UCM Observatory. Pertle Springs is open year round.

The Union Bowling Center

Located in the Elliott Student Union, the Union Bowling Center (UBC) is a recently updated 10-lane facility. The UBC hosts many campus and off-campus groups and is home to the Jennies Bowling Team and the Men's Bowling Club. The center is open daily, approximately 360 days of the year. Special event reservations are welcome and more information is available by calling 660-543-4375. The UBC also rents inflatable games and casino equipment to interested student organizations. Steak and Shake® is located here and is open from breakfast through late night snack time.

Recreational Programs

At UCM, we work hard and play hard. Our recreational programs have something to meet everyone's needs. Intramural sports offer a wide range of individual and team activities including flag football, softball, volleyball, basketball, and soccer. Contact the Intramural Office at 660-543-8643 or visit the Student Recreation and Wellness Center.

Shooting Range

The UCM Shooting Range is located east of Warrensburg at the Agriculture and Conservation Education Center at the Prussing Farm. The facility includes a 3,000-square-foot learning center for educational activities and social functions and three trap shooting ranges and one skeet range. The UCM Shooting Range is open to students, faculty, and staff as well as the general public. Contact the Student Recreation and Wellness Center (660-543-8643) for information about the shooting range.

Student Recreation and Wellness Center

The Student Recreation and Wellness Center has many opportunities for students, alumni, faculty, staff, and retirees to recreate. The 69,000-square-foot facility houses an indoor track, six basketball courts, three weight equipment areas, three dance/fitness rooms, and a climbing tower. Beverage and food items are available at Einstein Bros Bagels®.

Other Facilities

Other campus facilities include eight acres of recreational and practice fields west of the Audrey J. Walton Stadium, a 400-meter track in the football 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 UCM, offers group and family picnic and camping grounds, hiking trails, and fishing opportunities.

Services and Facilities

Academic Success Advisement

ucmo.edu/success

Academic success advisors passionately support students as they seek the best possible education at UCM. As an ongoing interactive process, advisors will empower students to establish realistic goals, achieve academic success, and encourage lifelong learning. The Center's goal is to serve students equitably and holistically, building strong relationships to achieve academic success!

Academic success advising is integral part of the 15-to-Finish program. Degree seeking students are assigned an academic success advisor based on their major. As part of the Learning to a Greater Degree contract, new students are required to meet their assigned advisor several times during their first year.

Students will also be assigned an academic success coach as part of their success team. Success coaches are peer mentors currently enrolled at the University, and pairs with the advisor to ensure all students are supported as they progress in their goals.

Students can find the name and email address of their assigned academic success advisor (and other advisors) in MyCentral (Student tab, Records and Registration, in the Student Profile block). International students are also assigned an international advisor from the Graduate and International Student Services office. As students successfully transition into their senior year, they will be assigned a faculty mentor in their major.

Success Advising Center

Elliott Student Union 128

660-543-4721

Accessibility Services (ADA/504)

Elliott Student Union 224; 660-543-4421; fax 660-543-4724
access@ucmo.edu; ucmo.edu/access

The Office of Accessibility Services (OAS) provides students and visitors with disabilities with the services necessary to achieve equal opportunities while at UCM. At the student's request, OAS will work with faculty, Housing, Facilities and other campus programs to provide opportunities for persons with disabilities. Examples of the disabilities 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 OAS with recent professional documentation of the disability. The documentation will need to be on a professional letterhead and should provide the diagnosis, the nature of the impairment, if it is permanent or long term, and how it affects the student. Accommodations depend upon the disability and the documentation and might include testing services, text in alternative format, sign language interpreters, or other services. Each semester students must contact OAS if the student wants to utilize accommodations and have instructors notified of accommodations for the new semester. For more information see the OAS Web site or contact OAS.

Airport

Max B. Swisher Skyhaven Airport; 660-543-4921
ucmo.edu/skyhaven

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.

Assessment

Dockery 110; 660-543-8855
ucmo.edu/assessment

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. A description of the major goals and components of Central Missouri's Quality Improvement Program (CQIP) can be found at ucmo.edu/testing-services.

General Education Assessment

Information regarding the university's General Education Assessment Policy may be found in the General Education portion of 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.

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.

Career Services Center

Ward Edwards 1200; 660-543-4985
careers@ucmo.edu; ucmo.edu/career

The Career Services Center provides assistance to students in developing a highly personalized career development plan. Each academic program has a designated Career Development Coordinator who is an expert on the job market and career options for that particular field of study. They are also highly skilled in coaching students to prepare them for the pursuit of their chosen profession.

Services in the Career Services Center include:

- Individualized Career Development Coaching
- Resume & Cover Letter Assistance
- Practice Interviewing
- Job Postings & Resume Referrals
- Student Employment Assistance
- Internship & Job Search Strategy Development
- Career Workshops, Events, Expos, & other on-campus Recruiting Opportunities
- Career Readiness Certificate Program
- Career Quick Tips Peer Mentoring

Career Services Center services are optional, but students are encouraged to use them for exploring and selecting major and career options, and for developing their personal career development plan. *Please note that no course, program, certificate, and/or degree available at the UCM carries with it a promise, real or implied, of immediate or eventual employment within the specific areas covered, or in any other area. Although a comprehensive set of services is offered through Career Center, taking advantage of these opportunities and gaining employment remain the student's responsibility.*

Center for Teaching and Learning

James C. Kirkpatrick Library 1340; 660-543-8528
<http://library.ucmo.edu/ctl> Email: mccormick@ucmo.edu
Facebook: UCMCTL; Twitter: @UCM_CTL

The Center for Teaching and Learning (CTL) advances the University's mission by encouraging and supporting the advancement of instruction and the scholarship of teaching and learning. Professional development for faculty is provided in many ways - both online and in-person. CTL seeks to integrate sound teaching practices with current instructional technology to foster faculty growth and excellence.

Central Regional Professional Development Center

232 Foster-Knox; 800-762-4146
centralrpd@ucmo.edu; ucmo.edu/rpdc

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, reading, and writing.

Chapel

The Alumni Memorial Chapel, funded by donations from individuals and organizations, was built in 1956 in memory of Central Missouri students who served in World War II and the Korean War. The chapel seats 200 in the sanctuary, has a meeting room for 20 people, and contains a complete kitchen and dining area in the undercroft. Private gifts recently funded the chapel's refurbishment and establishment of the Earl A. Webb Sr. Study. Another gift 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 the country in armed services, was placed near the entrance of the Danforth Chapel. The chapel is used by UCM 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.

Child Care Centers

The university supports one child care center on campus. The center is located in the back of the Foster-Knox Apartment Building and is licensed with the Missouri Department of Health and Senior Services.

The Child Care Center has adopted Creative Curriculum when planning activities and experiences for the children. Daily care routines are planned according to the age and development of the children within the classrooms.

The child care center provide care for children six weeks to 10 years old. Enrollment is determined from a waiting list. To place a child on a waiting list, schedule a tour, or to learn more about the Campus Child Care Center call 660-543-4605 for Foster-Knox.

The Counseling Center

Humphreys 131; 660-543-4060
ucmo.edu/cc

The Counseling Center is committed to supporting UCM's mission by helping students reach their full potential. Students who are having distress or other difficulties that are interfering with functioning may make an appointment to speak with one of the clinicians.

We provide an initial consultation where we hear about your concerns and offer recommendations. These may include brief individual, couple, or group counseling; Mental Fitness workshops; or online resources. If our services are not appropriate to your needs, we will direct you to services that are.

See the Counseling Center website for more information and resources, including ULifeline (self-screening instruments and information), Body U (interactive self-help), and Ask-Listen-Refer (suicide prevention training).

The Counseling Center is dedicated to providing a safe atmosphere for all students regardless of age, sex, gender identity, gender expression, sexual orientation, race, color, national origin, religion, marital status, socioeconomic background, veteran status, or disability.

What to do if you believe another student is in danger of attempting suicide:

If you think someone is in immediate danger of attempting suicide, call Public Safety (911 or 660-543-4123).

Or if you believe someone you know may possibly be suicidal, talk to one of the following:

- Dr. Corey Bowman, Associate Vice Provost for Student Services, at 660-543-4114 or Administration Building, Suite 214.
- Counseling Center at 660-543-4060 or Humphreys Building, Suite 131.
- Public Safety at 660-543-4123 or 306 Broad Street (available 24 hours a day).
- A readily available university employee, such as Housing staff, a faculty member, student organization advisor, or any other University employee with whom you are familiar.

The national suicide prevention lifeline, 1-800-273-TALK, is available 24 hours daily to anyone in suicidal crisis or emotional distress. The crisis text line is 741741.

Criminal Justice Institute

Humphreys 300; 660-543-4950; fax 660-543-8306
cjinst@ucmo.edu; School of Public Services

The Criminal Justice Institute, housed within the School of Public Services, strives to bridge the gap between policy makers, academia, and the field of criminal justice on issues and concerns to the criminal justice profession and to influence criminal justice policy and practice by providing research, information, and assistance. The Institute accomplishes this through delivering information to the criminal justice community in the form of accurate, affordable, and pertinent training. Students benefit from the Institute's work through unique educational opportunities that improve the quality of their degree. By interacting with experts students become effective, professional members of the criminal justice career field. Events sponsored by the Criminal Justice Institute include an on-campus symposium with varying topics from police worn body cameras to raising awareness about sexual assault to issues in juvenile justice as well as tailored training opportunities such as Warden Peer Training or Police Liability as requested by local agencies.

Dining Services

660-543-4012
ucmo.sodexomyway.com
Facebook: UCM Dining by Sodexo
Twitter and Instagram: @DiningUCM

UCM Dining by Sodexo is committed to providing enjoyable, service-focused, nutritious, and innovative dining experiences that meet the ever-changing needs of the UCM campus community. UCM Dining strives to provide customers with great menus, quality and the service they deserve. UCM Dining offers both resident and retail dining.

Keep up to date with all UCM Dining by Sodexo - menus, nutrition information, special events and notices by following us on social media or our mobile friendly website (see above).

Resident Dining. Resident Dining Centers accept meal plans, Dining Dollars, On Campus Dining Dollars, Central Cash, credit and debit cards, and cash. Three centers feature dining facilities with an all-you-can-eat format: Fitzgerald Dining Center, Westside Market in Todd Hall, and the Ellis Dining Center. Fitzgerald features Simple Servings, a concept that provides safe and appetizing food choices for those with food allergies, gluten intolerance, or those who prefer "simple" foods. Simple Servings eliminates the eight ingredients that account for 90% of all food allergy reactions.

Retail Dining. We offer a variety of retail locations across campus. These establishments accept Dining Dollars, On Campus Dining Dollars, Central Cash, credit cards, debit cards, and cash. Options include:

The Crossing - Starbucks® and Spin Pizza®

The Elliott Student Union - Chick-fil-A®, Jazzman's, Southern Tsunami, Steak and Shake®, Sub Connection, and Taco Bell®

Einstein Bros Bagels® located in the James C. Kirkpatrick Library and the Student Recreation and Wellness Center

Traditions at Pertle Springs - Full service restaurant overlooking the final hole of Mules National Golf Club

Distance Learning

Humphreys 410; 660-543-4984
<http://ucmo.edu/ucmonline>

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

Elliott Student Union

660-543-4052
ucmo.edu/union
Facebook: Elliott Student Union; Twitter: @UCMElliottUnion

The Elliott Student Union is centrally located on the main campus and serves as the "living room" for the campus community. The Union includes dining facilities, Jazzman's® coffee shop inside Cafe Rouge, meeting space, a computer lab, a DVD rental kiosk, a U.S. Bank branch, ATMs, student organization offices, study lounges and quiet areas. It is often used for social functions, student activities and other programs. The union also houses student services offices that include: the OneCard office, Dining Services/Catering, International Center, Student Government Association, Meeting and Conference Services, and the Office of Accessibility Services. The Elliott Student Union features an Information Desk that provides campus-wide information to students, staff, faculty and guests.

English Language Center

Wood 008; 660-543-8796; fax 660-543-4990
iep@ucmo.edu

The English Language Center (ELC) runs a variety of different programs: including the Intensive English Program (IEP), the Language and Culture Immersion Camp (LCIC), and Individualized Special Programs (ISPs).

The IEP is accredited by the Commission on Language Program Accreditation. The IEP offers 8-week courses with nine levels of instruction. Levels 6-9 are academic preparation courses. Levels 4 and 5 are the transition courses for academic preparation. Levels 1-3 are pre-academic preparation courses. Full-time students in the IEP take 20-22 contact hours per week of courses in reading, writing, grammar, listening/speaking, and testing skills. The IEP also offers elective courses in vocabulary, American culture, and accent reduction. IEP courses typically have a 1:16 teacher to student ratio or less. All IEP courses are available for credit and may be taken either for a standard letter grade or as pass/fail, and do not count toward completion of an academic degree or certificate. Please note that full-time status for UCM's Intensive English Program is 6 credit hours (20 contact hours) per 8-week session.

The mission of the Intensive English Program is to provide an intensive program which teaches a broad range of English language and study skills to non-native speakers of English so they can successfully pursue an academic degree program at the undergraduate or graduate level at a U.S. institution of higher education by demonstrating proficiency in reading, writing, grammar, and listening/speaking through a dynamic curriculum and cultural programming which responds to the needs of students in the program.

Extended Studies

Humphreys 401 & 410; 660-543-4984; fax 660-543-8333
extcampus@ucmo.edu; ucmo.edu/es

With the cooperation of Central Missouri's academic schools, Extended Studies administers courses and degree programs off campus and online. Extended Studies also coordinates summer sessions, workforce development programs, workshops, non-credit courses, contract training, high school dual credit courses, continuing education units (CEUs), and entrepreneurial courses.

Graduate and International Student Services

Ward Edwards 1800; 660-543-4621; fax 660-543-4778
GISS@ucmo.edu; ucmo.edu/graduate

The Graduate and International Student Services (GISS) office offers master's programs, education specialist programs, cooperative doctorate programs and various graduate certificates. A separate catalog is available for the graduate-level programs.

Health and Wellness Promotion

660-543-8947

ucmo.edu/hwp

Health and Wellness Promotion at UCM is part of the broader Campus Community Health (CCH) office, which incorporates the University Health Center and the Counseling Center. Find information about CCH at ucmo.edu/cch.

Through a wide variety of support programs and services, Health and Wellness Promotion at UCM can help you stay safe and healthy, and help you get connected to local community resources. We believe education,

prevention, and engagement are powerful tools, and we're here to help you use them. Some of our programs include:

Green Dot: A bystander intervention initiative that works to reduce power-based personal violence on campus and in our community, through trainings and other education, and a commitment to creating a culture that doesn't tolerate power-based personal violence.

AlcoholEdu: An online program that helps you learn to make healthy choices regarding alcohol and drugs and how to respond to the choices of those around you. To support student success and promote a safe and healthy environment at UCM, every freshman under the age of 24 must complete AlcoholEdu at the beginning of their college career.

Online Sexual Assault Prevention: We believe you should have the opportunity to learn in a safe and civil environment, free from sexual and interpersonal violence. This engaging online program that provides you with important prevention skills and strategies to help promote respectful relationships. All newly-admitted students are required to take this course.

Friendship Families: This program connects international students with local families and individuals to help build cultural awareness and appreciation, while providing students with a sense of connection to the Warrensburg community.

Off Campus Living: We coordinate workshops to help you know your rights and responsibilities as a renter before you move off campus, as well as a listing of some of the area's landlord and property managers.

Institute for Public Safety

200 Ming Street; 660-543-4090
mosafetycenter.com

Facebook: Central Missouri Police Academy; Twitter: @ucmpa

The Institute for Public Safety (IPS), a division of the Missouri Safety Center, develops and sponsors select in-service training courses for public safety professionals including law enforcement, firefighters, safety and emergency medical service providers.

IPS is also home to the Central Missouri Police Academy (CMPA). The CMPA is licensed by the Missouri Department of Public Safety's Peace Officer Standards and Training (POST) program as a Licensed Basic Training Center that exceeds POST's basic training requirements for a Class A Peace Officer License. Upon graduation from the academy, and passing the POST test, students are eligible to be licensed Peace Officers and may receive 15 hours of elective credit toward a bachelor's degree.

Institute for Rural Emergency Management

Humphreys 200; 660-543-4971; fax 660-543-4482
ucmo.edu/irem

The Institute for Rural Emergency Management (IREM), a division of the Missouri Safety Center (MSC), at the University of Central Missouri was established in June 2005. IREM meets a demonstrated need for technical assistance in rural communities, to include mitigating, preparing for, responding to and recovering from emergencies and disasters. UCM is the only university in the U.S. to create a community outreach center focused on the emergency management needs of rural America, which are distinct from the needs of urban and suburban communities.

IREM gathers best practices from successful rural projects and develops guidelines and targeted information

to distribute to elected officials and community leaders. In rural areas human resources are often limited, so IREM provides supervised student interns and researchers to complete vital projects, implement new programs, and deliver training workshops and exercises.

International Center

Elliott Student Union 302; 660-543-4195; fax 660-543-4201
ucmo.edu/international

The International Center consists of three areas including International Student and Scholar Services, the English Language Center and Education Abroad. The Elliott Student Union is the home of the International Center which serves more than 2900 international students attending UCM and more than 1100 who are engaged in Optional Practical Training. International students at UCM represent more than 50 different countries from around the world, bringing diversity to the campus community and to Warrensburg.

The International Center helps new international students settle into academic life in Warrensburg, provides intensive English instruction, advises students on non-immigrant student and scholar status, and assists UCM students who wish to study abroad. Students interested in attending school in another country while earning credit at UCM are encouraged to visit the International Center and inquire about UCM Study Abroad programs. Placement opportunities exist in approximately 300 institutions in more than 65 countries.

International Student and Scholar Services

Elliott Student Union 302; 660-543-4195

International Student and Scholar Services assists all international students and visiting international faculty with orientation, advocacy and programming activities. Other areas of service include immigration and student status certification activities, work authorization, sponsorship of the International Student Organization and the International Student Ambassador Program, and promoting the role of international education and alumni development.

KMOS-TV

University of Central Missouri's Broadcasting Services, KMOSTV, serves close to one million residents in west and central Missouri.

The station is a working laboratory for scores of UCM students - providing employment opportunities and on-the-job experiences that augment a student's academic achievements.

KMOS-TV is a member of the Public Broadcasting Service, presenting PBS national programming as well as producing a variety of local productions relevant to the needs and interests of central Missourians. The television station broadcasts four separate digital channels: 6.1 is a full schedule of nationally acclaimed PBS prime-time and children's programming and award-winning local productions in High Definition; Channel 6.2 (Create) is lifestyle and how-to programs; 6.3 (MHz Worldview) features international news and drama; and channel 6.4 presents family-friendly PBS Kids programming around the clock.

Learning Commons

JCK Library 3160, 660-543-8972
learningcommons@ucmo.edu; ucmo.edu/learningcommons

The Learning Commons, located on the third floor of the JCK Library, houses Tutoring Services, the Writing Center, Supplemental Instruction sessions, and the Test Prep Center. This collaborative learning environment offers students a comfortable place to work, study, and receive individualized assistance. Computer access is also available.

Tutoring Services

JCK Library 3160, 660-543-8972
learningcommons@ucmo.edu; ucmo.edu/learningcommons

Tutoring Services, located in the Learning Commons, is the central location for free academic assistance and tutoring. The center offers individualized help for many courses including all levels of mathematics. The tutoring schedule is available online or by contacting the Learning Commons.

Writing Center

JCK Library 3160, 660-543-8972 or 660-543-4367
writingcenter@ucmo.edu; ucmo.edu/ae/writing
OWL (Online Writing Lab): ucmo.edu/ae/writing/owl.cfm

The Writing Center, located in the Learning Commons, offers free one-on-one writing instruction and assistance with any paper or writing assignment from first-year courses through graduate theses. The Writing Center has walk-in hours and the availability of appointments. Students may also submit papers through OWL (Online Writing Lab), our online writing service and receive feedback through email.

Supplemental Instruction

JCK Library 3160, 660-543-8972
ucmo.edu/ae/courses/si.cfm

The Supplemental Instruction (SI) program, located in the Learning Commons, offers weekly structured group study sessions for challenging courses. SI sessions are facilitated by trained peer leaders who excelled in the course, and are open to all students enrolled in the supported course. Check with the course instructor to find out if SI is available for a specific course and section.

Test Preparation Center

JCK Library 3160, 660-543-8972
learningcommons@ucmo.edu; ucmo.edu/learningcommons

The Test Prep Center provides electronic and print resources to help students prepare for most exams. Whether you need general suggestions about preparing for your next course exam or plan to take a standardized exam, the Test Prep Center can provide that support. Students can learn what to expect, how to prepare, and be able to practice sample questions for their upcoming exam.

Library Services

James C. Kirkpatrick Library; 660-543-4154
<http://library.ucmo.edu>
Facebook: JCKLibrary; Twitter: @JCKLibrary

Library Services supports the University's instructional, research, and public service programs.

Library faculty and staff provide services to meet the needs of students, faculty, staff, and the local community. Assistance and instruction in library research skills and searching techniques are available both individually and via group sessions. Users may borrow most items from the library's collections. Remote access to most of the library's subscription databases is available to current members of the university community.

UCM's distance learners are encouraged to communicate with the library regarding services that meet their special needs. Telephone, email, and chat services are all available options for communication if an individual cannot be in the Kirkpatrick Library. Librarian liaisons will arrange individual research appointments with any student or faculty member.

More than 200 computers are located throughout the library, along with a variety of study spaces appropriate for individual and group use. Harmon Computer Commons is an open computer lab with over 90 computers for student use. Wireless connectivity is available throughout the building. Einstein Bros. Bagels Express®, housed on the first floor of the building, offers beverages and snacks.

Meeting and Conference Services

Elliott Student Union 301; 660-543-4342; fax 660-543-8469
ucmo.edu/meetings

Students may reserve university space for student organization and personal use. Depending on the use of the space charges may or may not apply. All space rental requests must be submitted to Meeting and Conference Services. To reserve space, students should submit event requests 10 business days prior to the event at ucmo.edu/scheduleevent. A confirmation will be sent by email which will include room assignment, event times, set-up requests, audio-visual equipment needs and any charges that apply.

Military and Veteran Services

Elliott Student Union 117; 660-543-8776; fax 660-543-8044
ucmo.edu/vets

The Office of Military and Veteran Services is a part of the university's presidential military and veterans' service initiative to better serve our active duty service members, reservists, guardsmen, veterans and their dependents as students at UCM. UCM offers a Military Tuition Package to eligible students who utilize military tuition assistance and/or the GI Bill for their tuition and are enrolled as degree-seeking-students. The Military and Veterans Success Center (MVSC) provides a one-stop, full-service resource center to assist military and veteran students and those utilizing the Military Tuition Package. The MVSC has computers with CAC readers for student use, individual and group study areas, as well as soft seating and dedicated staff to assist students with their educational pursuit. The Student Veterans Organization (SVO) provides an opportunity for active duty service members, reservists, guardsmen, veterans and their dependents to become involved with their student peers and participate in social and campus activities as one voice. The SVO assists its members with becoming acclimated to campus, providing guidance on campus resources as well as an interactive support system.

Missouri Safety Center

Humphreys 200; 660-543-4830; fax 660-543-4482
mosafetycenter.com; Facebook: MissouriSafetyCenter

Established July 1, 1967, the Missouri Safety Center (MSC) proves the benefits of combining an academic school with a training center, creating a hybrid unit dedicated to the safety and welfare of all citizens. As noted in its mission statement, "To promote safety in Missouri and the nation," the MSC strives to prevent injury and death through education, training, research, public service, and publications. The MSC's three distinct divisions are: The Division of Transportation Safety (DTS), The Institute for Public Safety (IPS) and the Institute for Rural Emergency Management (IREM).

Located just south of the main campus, the MSC's Division of Transportation Safety is housed in the Highway Safety Instructional Park at 1200 South Holden Street. This unique 14-acre highway safety training facility hosts many of the center's programs and features an advanced driving track, skid pad and off-road track for dirt bike and ATV training, as well as the Missouri breath alcohol training laboratory.

The MSC's Institute for Public Safety is located at 200 Ming Street near the main campus. The IPS develops and sponsors select basic and in-service training courses for professionals in public safety. The IPS's goal is to provide innovative, experiential learning opportunities tailored to the needs of regional public safety organizations. The IPS also manages the Central Missouri Police Academy (CMPA). The CMPA is licensed by the Missouri Department of Public Safety's Peace Officer Standards and Training (POST) program as a Licensed Basic Training Center that exceeds POST's basic training requirements for a Class A Peace Officer License.

The MSC's Institute for Rural and Emergency Management, located in Humphrey's Building, Suite 200, was established in 2005 to assist rural communities with mitigating, preparing for, responding to and recovering from emergencies and disasters. The MSC also prepares graduates for the growing emergency management field through a Bachelor of Science degree in Crisis and Disaster Management or a specialized certificate available entirely online or on campus. Students who participate in this program may concentrate in the areas of emergency management, emergency services management, hazardous materials, or business continuity. This degree program addresses the need within the state of Missouri for technically educated emergency management professionals.

Non-Traditional Student Services

Elliott Student Union 217; 660-543-4007

<https://www.ucmo.edu/current-students/student-experience/office-of-student-activities/#>

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 about non-traditional scholarships, housing, child care, and tutoring or other skill enhancers.

Office of Sponsored Programs & Research Integrity

Administration 315; 660-543-4264

Sponsored Programs: ucmo.edu/osp

IRB and IACUC: researchreview@ucmo.edu

The Office of Sponsored Programs & Research Integrity oversees programs that guide UCM in its research, scholarly activity, and creative endeavors. The office disseminates information about funding opportunities, assists in proposal development/submission; and oversees award management, budgeting, reporting, and compliance.

Research Involving Human Subjects

To protect the health and safety of human subjects involved in research, all research projects involving the use of human subjects must be in compliance with federal regulations. All projects involving human subjects in research must be approved in advance by the UCM Human Subjects Review Committee which serves as the Institutional Review Board (IRB).

Research Involving Animals

Federal law requires that all research projects involving the use of selected mammals and birds be

conducted in a manner that ensures humane treatment of animals. All such projects must be approved in advance by the UCM Institutional Animal Care and Use Committee.

Office of Technology

Ward Edwards 0101; 660-543-4357 (HELP)
tsc@ucmo.edu; ucmo.edu/ot

The Office of Technology is comprised of five teams and an administrative staff that work together to support the technology needs and requirements of UCM's students, faculty, and staff.

Application Systems

The Application Systems (AS) team has core responsibilities for the Ellucian enterprise system and add-on modules that support the academic and business functions of UCM that include students, finance, human resources, payroll, financial aid, alumni, development, MyCentral portal, Blackboard, AdobeConnect, etc. The AS team works closely with functional offices and individuals to plan, coordinate, execute, support, and maintain the various applications core to the Ellucian environment in addition to those systems and applications that have a direct or indirect interface to the Ellucian database. The AS team services and supports the Oracle database engine, which is both the most important and largest database supported by this team and serves as the foundation of all official UCM data. The AS team also has a wide scope of responsibilities for the implementation and technical support of "non-Ellucian" enterprise and departmental systems and applications, also serving in an advisory capacity to those offices that want to maintain responsibility for their system or application.

Network Services

The primary duty of the Network Services (NS) team is oversight of UCM's infrastructure (voice and data), which includes all the hardware, software, cabling, and services that makes up the voice and data network infrastructure. NS has specific responsibilities for network connections at the core, building and workstation levels, Internet connectivity, switches, routers, telephones (land lines, VOIP, and cellular), Wi-Fi, access points, and the software utilized by each component.

Technical Services

Technical Services (TS) team is responsible for the server farm, storage environment, network operations center, and core applications associated with network connectivity and authentication. In addition, the TS team has responsibilities for data backups, active monitoring of systems, security, access, and the general well-being of servers. TS has oversight of enterprise servers as well as specifically identified departmental servers to include operating systems, hardware, patches, upgrades, permissions, access, and system defined availability.

Technology Support Services

The Technology Support Services (TSS) team is responsible for providing general and specific computer hardware and software support for end-user computing devices that includes workstations, laptops, handheld devices, tablets, etc. TSS builds and deploys base images, conducts operating system updates and patches, provides acquisition assistance, and performs appropriate hardware repairs and replacement.

Technology Support Center

The Technology Support Center (TSC) team provides first-line support to the UCM user community. The TSC conducts basic trouble-shooting, processes user requests for services, and answers general questions about campus technology. The TSC is the first step in requesting assistance, reporting a problem, or requesting new services from the Office of Technology. Students can reach the Technology Support Center by calling 660-543-4357, visiting Ward Edwards 0800, or by email. Walk-in support is generally available in WDE 0800 Monday through Friday from 7 a.m. until 8 p.m. Appointments may be made for weekend support as needed. TSC phones are answered 24/7. When TSC staff members are not on site, an answering service

representative may take a message for call back the next day. If immediate service is required, TSC personnel will be paged for immediate response.

Public Safety

660-543-4123 (or 911 for emergencies); fax 660-543-4163
ucmo.edu/ps

The Department of Public Safety includes University Police, Access Control, Environmental Health and Safety, and Parking Services. It is located at 306 Broad St. and is open 24 hours daily, 365 days per year. For emergencies on campus, dialing 911 from the university phone system will reach the Department of Public Safety. Dialing 911 from a cell phone will connect the caller to Johnson County Central Dispatch.

Publications

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

- *UCM Today*, a quarterly magazine for alumni and friends of the university published by University Relations and the Office of Alumni Relations and Development
- *The Muleskinner*, a weekly campus newspaper published by the School of Communication, History, and Interdisciplinary Studies student staff.

Registrar and Student Records

Ward Edwards 1000; 660-543-4900; fax 660-543-8400
registrar@ucmo.edu; ucmo.edu/registrar
Facebook: UCM MoInfo; Twitter: @UCMRegistrar

The Office of the Registrar and Student Records maintains the official student records of UCM. The Registrar's Office is responsible for maintaining accurate records of student enrollments and grades. The Registrar's Office provides official transcripts, maintains degree audit reports, and evaluates students for graduation requirements. Enrollment and degree verification certificates are available in MyCentral through the National Student Clearinghouse.

Transcripts

There are two types of academic transcripts - unofficial and official. Holds on student accounts will prevent access to both types of transcripts. Students have access to unofficial transcripts in MyCentral. Official transcripts are provided for a fee and can be ordered in MyCentral (Student tab, Records and Registration section, in the Student Profile).

An academic transcript shows a history of all courses taken, grades received, and hours earned. If a UCM degree or certificate is earned the degree or certificate, date conferred, and majors and minors will be listed on the transcript. The UCM official transcript includes student legal name, UCM student number, and birth month and date. Social security number is not included on the transcript for security reasons.

Diplomas and Certificates

Upon graduation all students receive a diploma or certificate. Diplomas and certificates will not be released until all financial obligations to the university are paid. The cost of the diploma and/or certificate is included in the graduation fee billed to students during their last semester. Diplomas include the degree earned, major(s), and academic honors (if applicable). Minors are not listed on diplomas. Certificates include the name of the certificate earned. If the student earned a double degree (not double major) or more than one

certificate, a diploma/certificate will be provided for each degree/ certificate. Students earning a double major will receive one diploma which lists both majors.

Student Experience and Engagement

Administration 214; 660-543-4114; fax 660-543-8114
ucmo.edu/student

The Office of Student Experience and Engagement coordinates a wide variety of student services and programs. These services and programs are designed to help students have a safe and supportive collegiate experience, develop a sense of personal responsibility and experience personal growth, acquire essential skills to thrive as emerging citizens and leaders, understand their role and responsibility within a larger community, identify personal values, appreciate differences, and adapt to a diverse society. The office assists students, their families and visitors to better understand and access these services as they apply to their needs and situation.

Student Financial Services

Ward Edwards 1100; 660-543-8266; fax 660-543-8080
ucmo.edu/contactsfms (for email inquiries)
ucmo.edu/sfs

The Office of Student Financial Services 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.

Testing Services

Humphreys 216; 660-543-4919; fax 660-543-8757
testingservices@ucmo.edu; ucmo.edu/testingservices

Testing Services serves as the repository of official score reports, provides information and administers national, state, and locally developed tests, as well as supports and coordinates Central Missouri's Quality Improvement Program (CQIP). Testing Services is a member of the National College Testing Association (NCTA) and the Consortium of College Testing Centers. Testing Services adheres to NCTA Professional Standards and Guidelines.

Official Score Report Policy

- Official score reports are required to be on file for a student to meet admission and/or other program requirements.
- Only score reports that are sent from the test company directly to Testing Services are considered official.
- The University of Central Missouri retains and uses scores obtained within the past 10 years. ACT scores accepted at the time of admission may be no older than five years.
- To protect confidentiality and privacy, score reports are not available by telephone, fax, email, Internet, or proxy.
- An official ID containing the candidate's photo and signature is required for most services.

Test Registration

There are several ways to register for various tests:

- Registration for some tests, including the general education assessment (GEA) and ACT-Compass Placement test, is available via MyCentral; click on the "Student Records and Registration" tab, then "Register for a Test". Select the test day and time, and complete the online registration process as directed.
- Registration for some tests must be completed in person at Testing Services, Humphreys 216
- Registration for some tests, including CLEP, MEGA, MoGEA (teacher education), and FAA exams, must be completed directly through the testing company.
- Test fees and administration fees are automatically billed to the UCM student's financial account unless paid directly to the testing company.
- For candidates not enrolled at UCM, only cash or money orders payable to UCM Testing Services can be accepted, except for test fees paid directly to the testing company.
- Test candidates are not fully registered until Testing Services confirms receipt of fees and seat availability.

Test Cancellation

Candidates are obligated to test on their scheduled date and time. To maintain reasonable test administration fees, a no-show fee of \$10 may be applied to the UCM student's financial account, unless Testing Services is notified of a change at least 24 hours in advance or proof of a university-approved absence is provided.

Test Accommodations

Testing Services is pleased to accommodate students who have documented disabilities, in compliance with the Americans with Disabilities Act. Candidates with disabilities are responsible for requesting test accommodations prior to or during registration and following the procedures outlined by the test company. Candidates are responsible for confirming with Testing Services their test date, time, location, and approved test accommodations.

UCM students who wish to use their accommodations for the GEA must request the Office of Accessibility Services (Elliott Student Union 224, 660-543-4421) provide Testing Services with approved test accommodations at least two weeks prior to testing.

TRIO Ronald E. McNair Postbaccalaureate Achievement Program (McNair Scholars Program)

HUM 127, 660-543-8830; fax 660-543-4829
mcnairscholars@ucmo.edu; <https://www.ucmo.edu/offices/mcnair-scholars-program/>

The McNair Scholars Program, a federally funded TRIO program, serves undergraduates in their junior and senior years to prepare for doctoral study. Students who meet government eligibility requirements and are selected for the program participate in activities including seminars, faculty mentoring, and the opportunity for a paid summer research internship.

TRIO Student Support Services (TRIO-SSS)

HUM 119, 660-543-4394; fax 660-543-4829
trio@ucmo.edu; ucmo.edu/trio

SSS, a federally funded TRIO program, helps U.S. citizens and permanent residents who are first-generation, low-income, and/or disability-challenged persist through graduation. The program provides comprehensive advising, tutoring in high-risk courses, and tuition-free developmental courses. Additional benefits include a laptop loan program and private computer lab for program students.

UCM Alumni Foundation

Elliott Student Union, Smiser Alumni Center, 660-543-8000
alumni@ucmo.edu, giving@ucmo.edu; ucmo.edu/foundation

The UCM Alumni Association and UCM Foundation joined together in 2015, combining their volunteer boards and developing new committees and strategies to reach more aggressive goals in terms of alumni engagement and financial support of the university's mission. The UCM Alumni Foundation now operates under the central mission "to cultivate, manage and distribute resources in support of the University of Central Missouri." As the university's official nonprofit organization, the UCM Alumni Foundation solicits and manages donors' gifts to benefit both specific areas as well as the university's greatest needs. Scholarships are one of the largest areas where gifts make an impact benefiting learning to a greater degree. Other areas where the organization makes an impact include reunions, Homecoming, Mule Nation alumni events, the UCM Magazine and Distinguished Alumni Awards.

UCM Lee's Summit

660-543-8228; 816-347-1612; fax 816-347-9574
summit@ucmo.edu; ucmo.edu/summit

The UCM Lee's Summit location is an off-campus site whose mission is to serve adult learners in the Greater Kansas City metropolitan area. UCM Lee's Summit is located within the Summit Technology Campus near 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 rooms, computer labs, and conference rooms. Offerings included undergraduate certificate programs, completion degrees, graduate certificate and degree programs. UCM Lee's Summit also serves as a resource to the community for professional and workforce development.

University of Central Missouri Prussing Farm

The 260-acre University of Central Missouri Prussing Farm, a teaching unit of the Agriculture program that utilizes 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 on campus and at the 100-acre Agricultural Research Farm on Mitchell Street. Agriculture research, funded by the university, private industry, and the Natural Resources Conservation Service is carried on by faculty and students at these facilities.

University Health Center

660-543-4770; fax 660-543-8222
uhc@ucmo.edu; ucmo.edu/uhc

Clinical Services

The University Health Center (UHC), located at 600 S. College St., just south of the Elliott Student Union, is the place to go when you're sick or injured, or need medication, physicals, or prevention services.

The UHC offers care for acute care and services to students and their spouses, with immunizations and laboratory services to faculty and staff. The Health Center is staffed by physicians, nurse practitioners,

nurses, and other qualified professional and support staff. The Health Center operates primarily on an appointment system, although urgent illnesses and injuries are given priority. Fall and spring semester hours are Monday - Friday, 8 a.m. to 12 p.m. and 1 p.m. to 5 p.m. Summer hours are Monday - Thursday, 7:30 a.m. to 12 p.m. and 1 p.m. to 4:30 p.m. The Health Center only sees patients while classes are in session.

Health Insurance

All students attending UCM should have adequate health insurance coverage. University policy requires that all international students have health insurance coverage.

All international students will be enrolled in UCM's student health plan; exceptions apply to H1B visa type and sponsored students. Students are automatically enrolled and billed for the cost of health insurance each semester. Students who hold H4 and F2 visas may apply for a waiver during the prescribed time frame each semester but are not guaranteed waiver approval.

Domestic students may enroll in the student health insurance plan for themselves and their dependents.

The student insurance plan provides benefits to the insured students and their insured dependents on or away from campus, 24 hours a day. The insurance runs from August 1 to July 31, and may be paid for the entire year, or on a per semester basis. For more information about the student insurance plan, visit ucmo.edu/uhc or call 660-543-4770.

Mandatory Immunization Requirements

Students must provide evidence of two (2) vaccinations for immunity against measles, mumps, and rubella (MMR), and completion of the Mandatory Immunization Form. As of July 1, 2015 the State of Missouri requires all students living in university housing to have received the meningococcal vaccine. For more information about immunization requirements as well as a copy of the Mandatory Immunization Form, please visit ucmo.edu/uhc or call 660-543-4770.

University Store - The Crossing

114 W. South Street; 660-543-4227

<https://www.ucmo.edu/offices/bookstore-university-store/>

University Store -The Crossing is located just north of Vernon Kennedy Field/Walton Stadium at 114 W. South Street. University Store-The Crossing sells an assortment of officially licensed UCM clothing and souvenirs. Convenience store items are available in our adjoining store, Mule Stop. Online orders for emblematic merchandise are accepted at our Web site, <https://www.ucmo.edu/offices/bookstore-university-store/>. University Store-The Crossing is open fall and spring semesters Monday through Thursday, 9:00 am to 7:00 pm; Friday 9:00 am to 6:00 pm; Saturday, 9:00 am to 3:00 pm and Sunday, 12 noon to 5:00 pm. Summer hours are Monday through Friday, 9:00 am to 5 pm; Saturday 9:00 am to 3:00 pm.

Welch-Schmidt Center for Communication Disorders

Martin 34; 660-543-4993; fax 660-543-8234

ucmo.edu/comdisorders/about/center.cfm

UCM has a comprehensive speech-language and hearing clinic in the Welch-Schmidt Center for Communication Disorders. Undergraduate and graduate student clinicians, supervised by Missouri-licensed and American Speech-Language-Hearing Association (ASHA)-certified faculty of the School of Human Services, provide prevention, assessment, and treatment services to students, faculty, and members of the community who may exhibit difficulties in articulation, voice, swallowing, stuttering, language, literacy, hearing disorders, and foreign accent.

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 two and one half and five years; a speech acoustics and physiology lab that provides instrumentation for rigid and flexible endoscopy vocal fold visualization, air-flow/pressure and acoustic measurement of the voice; four audiologic suites where hearing evaluations, impedance audiometry, otoacoustic emissions, and video otoscopy are performed; an Augmentative and Alternative Communication (AAC) lab; Scottish-Rite Early Language and Literacy Lab; and a Functional Communication Clinic (FCC). 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 workstations. The center collaborates with the university English Language Center for a unique service-learning opportunity for student clinicians by providing accent reduction therapy for those international students enrolled in the Intensive English Program (IEP). With the support of the Scottish-Rite, the Center is also able to provide literacy evaluations and treatment to children and adults.

Students, faculty, staff and their immediate families with speech sound errors, autism, aphasia, or other communication deficits may use the center's services at reduced fees. The Center welcomes self-referrals and referrals from university faculty and staff, the University Health Center, and community health and educational agencies.

Academic Program Requirements

Degrees

A degree is a formal title conferred upon an individual for the completion of a program of study. Undergraduate degrees are called baccalaureate or bachelor's degrees. These terms can be used interchangeably. Central Missouri offers the following baccalaureate degrees:

- Bachelor of Arts (B.A.)
- Bachelor of Fine Arts (B.F.A.)
- Bachelor of Music (B.M.)
- Bachelor of Music Education (B.M.Ed.)
- Bachelor of Science (B.S.)
- Bachelor of Science in Business Administration (B.S.B.A.)
- Bachelor of Science in Education (B.S.Ed.)
- Bachelor of Social Work (B.S.W.)

General Requirements for All Baccalaureate Degrees

1. A baccalaureate degree must total a minimum of 120 semester hours. Some degree programs require more than 120 semester hours.
2. Students must earn a minimum of 30 semester hours from UCM.
3. The last 12 hours of the degree must be earned from UCM.
4. A baccalaureate must include a minimum of 30 semester hours of upper-level credit from an accredited four-year institution and a minimum of 20 of those hours must be completed at UCM.
5. A baccalaureate must include completion of the General Education Program as prescribed by the university. See *The General Education Program* in this section.
6. Students must achieve a grade point average of at least 2.00 in the cumulative GPA, UCM GPA, major, and minor (if applicable) GPA. Some degree programs require higher GPAs for graduation.

Specific Requirements for the Various Baccalaureates

Bachelor of Arts

1. A major for this degree normally shall be 30-43 semester hours.
2. Candidates for this degree who are seeking teacher certification must satisfy teacher education certification standards. See B.S.Ed. degree requirements on this page and *Teacher Education Policies and Procedures* in this catalog.
3. A modern language requirement shall be nine semester hours and may be met as follows:

The modern language requirement is fulfilled by successfully completing nine semester hours of one modern language, or completing six hours of one modern language and three hours of modern literature in translation (ENGL 2220 or ML 2000), or completing three hours of an upper-level (or level three) modern language course.

Students with previous study of a modern language in high school may be eligible to enroll in the second or third level of language courses at UCM. Students who earn a grade of C or higher will earn validated credit for the lower level classe(s). For further information contact the School of Social Sciences and Languages at 660-543-4780.

Students may alternately satisfy the B.A. language requirement and/or gain General Education Humanities credits by attaining a proficiency rating of Intermediate Mid on an ACTFL Oral Proficiency Interview (OPI). Non-native speakers of English are understood to fulfill the spirit of the requirement through their English coursework, provided that they can show proof of native proficiency in another language (Advanced proficiency rating on an OPI). Students wishing to fulfill the requirements in this way must pay for their own examinations. Contact Testing Services at 660-543-4919, for more information.

Bachelor of Fine Arts

This is a professional performance degree available through the School of Visual and Performing Arts.

1. A major for this degree normally shall be 61-88 semester hours.

Bachelor of Music

This is a professional performance degree available through the School of Visual and Performing Arts.

1. A major for this degree normally shall be 77-88.5 semester hours.

Bachelor of Music Education

This is a professional education degree available through the School of Visual and Performing Arts. Students planning to obtain teacher certification should see *Teacher Education Policies and Procedures*.

1. A major for this degree normally shall be 63.5-68.5 semester hours.
2. Professional education courses for this degree shall be 25-35 semester hours.
3. A candidate for this degree must have a minimum cumulative grade point average of 2.75 based upon total hours attempted, as well as a grade point average of 3.00 in specified content courses, and a grade point average of 3.00 and no grade below a C in designated professional education courses.

4. All students receiving this degree must obtain minimum scores on the area specialty test to be eligible for teacher certification (HB463). Not obtaining the prescribed minimum score does not preclude receiving the degree. *Teacher Education Policies and Procedures* in this catalog.

Bachelor of Science

1. A major for this degree normally shall be 30-80 or more semester hours.
2. Candidates for this degree who are seeking teacher certification must satisfy teacher education certification standards. See B.S.Ed. degree requirements on this page and *Teacher Education Policies and Procedures* in this catalog.

Bachelor of Science in Business Administration

1. A major for this degree normally shall be 60-77 semester hours.
2. A minimum of 50 percent of the major hours must be earned at UCM.
3. Candidates for this degree must achieve a minimum cumulative grade point average of 2.25 for graduation (2.65 for accountancy majors and 2.40 for finance majors).

Bachelor of Science in Education

Students planning to obtain teacher certification should see *Teacher Education Policies and Procedures* in this catalog.

1. A major for this degree shall be in a certifiable area and normally shall be 36-64 semester hours except in those instances where certification requirements exceed this amount.
2. A minor for this degree normally shall be 18-24 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 2.75 based upon total hours attempted, as well as a grade point average of 3.00 in specified content courses, and a grade point average of 3.00 and no grade below a C in designated professional education courses.
5. All students receiving this degree must obtain a minimum score on the appropriate exit test 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 and student teach in both areas. Students should check with Clinical Services and Certification (LOV 2170) to clarify student teaching expectations for double majors.

Bachelor of Social Work

This is a professional degree available through the School of Human Services.

1. The major for this degree normally shall be 51 semester hours.
2. A cumulative grade point average of 2.00 is required for admission to the program. Students in this major must earn a grade of C or better in all required major courses.
3. Candidates for this degree must successfully complete a 40-hour volunteer observation experience in a social service agency during the first semester as a major and a 480-hour field practicum experience in the final semester.

Accelerated Bachelor's/Master's Degrees

Accelerated Bachelor's/Master's degree programs at the University of Central Missouri provide well-prepared advanced students the opportunity to substitute graduate courses for required or elective courses in an undergraduate degree program and then subsequently count those same courses as fulfilling graduate requirements in a related graduate program.

The program will begin after a student is admitted. Students can enroll in graduate courses only after the junior year (90 earned hours).

A minimum of 30 graduate credit hours must be earned to complete the master's degree while the undergraduate program will require a minimum of 120 credit hours of both undergraduate and graduate courses.

Depending on the program, up to 12 hours of graduate coursework may be taken during the senior year and counted to meet both the Bachelor's and Master's degree requirements. Students complete the remaining graduate coursework in the fifth year. Students may not enroll in additional graduate courses until the undergraduate degree is completed.

Students will take a maximum of 6 hours of graduate credit per semester during the senior year, and 3 hours over the summer if available, with no more than 16 total credit hours total of both undergraduate and graduate coursework in a single semester.

Upon completion of the undergraduate portion, the student will then be classified as a graduate student. Students are awarded a Bachelor's degree as soon as those degree requirements are completed and are then admitted as candidates for the Master's degree. Students are awarded the master's degree when all graduate requirements are completed. If a student withdraws from the university and stops enrolling in coursework following completion of the Bachelor's degree and later wants to return, they will have to apply to the regular graduate program and no prior coursework may be applied.

Please note: enrollment may affect eligibility for financial aid and scholarships, please contact the Student Financial Services office at 660-543-8266 if you have any questions. For the purposes of financial aid and scholarships, students are considered to be at the undergraduate level until the Bachelor's degree is awarded. Students will be considered graduate level after the Bachelor's degree is awarded and the student is only taking graduate level courses. Students are eligible for graduate assistantships after receiving a Bachelor's degree.

Double Degrees

Students may earn more than one degree, if desired. This is often referred to as a double degree or dual degree program. The degrees can either be the same type (e.g., two B.S. degrees) or of different types (e.g., a B.F.A. and a B.S.E.). Students must meet the unique requirements of each degree (including required minors, specified General Education courses, etc.). There are no additional requirements for the double degree option. Each degree may be from a different catalog year, if needed. Students who earn both degrees in the same semester will pay one graduation fee. Students who earn the degrees in different semesters will pay the graduate fee each semester.

Students may not earn a double degree with the same major name (e.g., students cannot earn both a B.A. and a B.S. degree with a history major). Students may pursue more than one option/area under a major, but they must be earned concurrently and only one degree will be awarded. The exception to earning more than one degree with the same name is when one of the degrees is a B.S.E. (e.g., students may earn both a B.S. in Mathematics and a B.S.E. degree in Mathematics). A minor used to satisfy a degree requirement for one degree may not be in the same subject as a major used in a different degree program if the two degrees are earned concurrently. The same minor may not count on more than one degree.

Majors

A major is a primary field of specialized study. UCM majors range from 30-88 credit hours. Majors are tied to specific degrees. Some majors may be offered with multiple degree programs. For example, the history major is available as both a B.A. degree or a B.S. degree. Find a listing of the majors offered by UCM in the Programs Alphabetically link in the navigation bar on the left side of this online page or [click here](#). Students may declare, change or delete a major by meeting with their success advisor.

General Requirements for a Major

1. A major must require a minimum of 30 semester hours.
2. A minimum of 15 semester hours of a major's program requirements must be completed through Central Missouri. Some majors require additional major hours at UCM for graduation.
3. A minimum of 12 upper-level hours must be included in a major program. At least nine of these 12 upper-level hours must be completed through Central Missouri.
4. Courses taken to fulfill major requirements must be taken for a standard letter grade and may only be taken as pass/fail if that is the only way that the course is offered.
5. Students must achieve a grade point average of at least 2.00 in the major. Some majors require higher major grade point averages for graduation.

Double Majors

Students may earn more than one major if desired. The two majors must be tied to the same degree type and the student must follow the curriculum from the same catalog year for each major. For example, a student can pursue a double major in management and marketing, as they are both B.S.B.A. degrees. Upon completion, the student earns two majors with one degree. Students must meet the unique requirements of each major. If one or both of the majors requires a minor, the minor requirement will be waived because of the double major (minors are only waived in the case of double majors, not for double degrees). There are no additional requirements for the double major option.

Students pursuing a double major also have the option of completing a double degree. Each degree may be from a different catalog year, if needed. Students who wish to opt for the double degree will apply for graduation separately for each degree. Students must meet the unique requirements of each major. There are no additional requirements for the double degree option.

Major Options and Areas

Some majors offer Options or Areas that provide additional specialization or focus within a major. Options are those content areas that have gained approval from the Missouri Department of Higher Education (MDHE) and are listed on their official program inventory. Options will appear on official transcripts and diplomas. Areas (sometimes also noted as specializations, concentrations, etc.) are those content areas that are internal UCM designations and have not gained approval from the Missouri Department of Higher Education (MDHE). Areas will not appear on official transcripts or diplomas. Students may pursue more than one option/area under a major, but they must be earned concurrently and only one degree will be awarded.

Minors

A minor is a secondary field of specialized study. UCM minors range from 15-34 credit hours. Some programs require minors as part of the degree program. See specific program requirements in this catalog. A minor may not be earned independently from a degree or added onto a transcript after graduation.

Students may follow minor curriculum from a different catalog term than their major curriculum, as long as the student is eligible for that catalog term. Students may pursue more than one minor if desired. Students may not concurrently major and minor in the same subject area. Students may return to UCM and earn a major in a subject area in which a minor was previously earned. Students may not return to UCM and earn a minor in a subject area in which a major was previously earned. Find a listing of the minors offered by UCM by scrolling down here. Students may declare, change or delete a minor by meeting with their success advisor (UN 128, 660-543-4721).

General Requirements for a Minor

1. A minor must require a minimum of 15 semester hours.
2. Although the university does not require the completion of a minor for a degree, some programs do require a minor. Carefully read the program requirements for specific majors.
3. A minimum of nine hours of a minor program must be completed through Central Missouri.
4. At least one upper-level hour must be included in the minor program and completed at Central Missouri.
5. Courses taken to fulfill minor requirements must be taken for a standard letter grade and may only be taken as pass/fail if that is the only way that the course is offered.
6. Students must achieve a grade point average of at least 2.00 in the minor.

Undergraduate Certificates

An undergraduate certificate is a course of study in a specialized subject area. Certificate programs range from 12 to 21 credit hours. Some certificate programs may be completed in one semester. These programs range from 12-15 credit hours. Other certificate programs are one-year programs and contain between 16 and 21 credit hours. Fifty percent of the coursework for a certificate must be earned at UCM to fulfill residence hours. Courses taken to fulfill certificate requirements must be taken for a standard letter grade and may only be taken as pass/fail if that is the only way that the course is offered. Find a listing of the undergraduate certificates offered by UCM at the bottom of the list of Programs Alphabetically link in the navigation bar on the left side of this online page or click [here](#) and scroll to the bottom of the list.

An undergraduate certificate may be earned independently or along with a degree program. A student pursuing an undergraduate certificate may seek admission to a degree program simultaneously or at a later date. Students may pursue certificates and majors in the same academic area. Coursework used on a certificate may also be used towards an undergraduate degree. Students must earn a 2.00 or higher grade point average in the coursework required of the undergraduate certificate, in the UCM GPA, and the cumulative GPA. Latin honors are not awarded for certificate programs. Students who earn only a certificate or earn a certificate after/before earning a degree are not recognized in the commencement ceremony. Only degree recipients participate in the commencement ceremony.

Course Overlap

In the instance of a double degree or double major program, courses required in both degrees or majors may count in both programs. In the instance of a major and minor or double minor, courses required in both may count in both programs. Limitations to this policy may be enforced by the schools/programs. Refer to school/program information in this catalog for restrictions.

Students pursuing a double degree program where a minor(s) is required may not receive a major and minor in the same subject area. In addition, if both majors in a double degree program require minors, each must have a unique minor. Students completing a double major (one degree) do not need to complete a minor.

Teacher Certification

UCM, accredited by (CAEP) the Council for the Accreditation of Education Preparation, offers both courses and programs at the graduate-level that meet the requirements for certain teaching certificates issued by the Missouri Department of Elementary and Secondary Education. All students seeking teacher certification should check specific program requirements listed in this catalog and with the graduate program advisor.

Authority has been granted to the university by the State Board of Education in Missouri to recommend for students for certification who are qualified to teach or serve as administrators in the public schools of Missouri as well as in other states. Any student seeking initial certification or additional certification as a result of completing graduate courses or a graduate degree should contact the Director of Clinical Services and Certification, University of Central Missouri in Lovinger 2170, Warrensburg, MO 64093 or at 660-543-8441 or clinicalsvs@ucmo.edu.

The General Education Program

The General Education Program Requirements

The General Education Program at UCM is an essential component of all undergraduate degree programs. It allows students to cultivate fundamental intellectual and practical skills. The requirements are designed to improve students' ability to communicate, think critically, solve real-world problems, and adapt to a changing world by learning to think in different contexts. General education cultivates social and civic responsibility to help students become lifelong learners and contributing members of society.

The philosophy of general education is not unique to UCM. UCM's General Education Program is based on a model developed by the Association of American Colleges and Universities (AAC&U) called *Liberal Education and America's Promise* (LEAP). LEAP is organized around essential learning outcomes for all students regardless of their chosen field of study. For more information on LEAP, see aacu.org/leap.

This philosophy is the foundation for UCM's General Education mission statement:

The General Education program at the University of Central Missouri serves student need and the public interest by ensuring students have strong foundational skills by providing a broad, enriched academic experience that both complements and supports their study within specialized disciplines.

UCM's General Education Outcomes and Competencies

Four outcomes and ten competencies establish the knowledge base and skills for all UCM graduates. The UCM General Education Program Outcomes and Competencies include:

Outcome 1: UCM graduates will demonstrate a mastery of intellectual and practical skills by

Competency 1: Writing with clarity and purpose using appropriate conventions of format, structure, and documentation.

Competency 2: Presenting and interacting effectively in public, group, and interpersonal settings.

Competency 3: Using mathematical and formal reasoning to perform analysis, determine reasonableness, and draw inferences.

Competency 4: Thinking creatively and critically.

Competency 5: Acquiring and managing information effectively through research and the uses of current and emerging technologies.

Outcome 2: UCM graduates will demonstrate knowledge of the world in which we live by acquiring

Competency 6: Knowledge and appreciation of literature, languages, and the arts using the standards of evidence and reasoning appropriate to the humanities and the arts.

Competency 7: Knowledge of the physical and natural world using the standards of evidence and reasoning appropriate to the sciences, mathematics, and technology.

Competency 8: Knowledge of the human experience using the standards of evidence and reasoning appropriate to history and the social/behavioral sciences.

Outcome 3: UCM graduates will demonstrate an understanding of individual and social responsibility by

Competency 9: Evaluating individual and social choices within multiple cultural frameworks using ethical reasoning and civic principles.

Outcome 4: UCM graduates will demonstrate the ability to integrate and apply skills, knowledge, and responsibility by

Competency 10: Creating a cumulative work that demonstrates the integration and application of knowledge in new settings. Competency 10 is fulfilled by the major curriculum. It is not included in the 42-hour core of general education.

The 42-credit hours required in General Education will ensure students learn and practice the skills and knowledge of the ten competencies prior to degree conferral. Students will demonstrate their competency by successfully completing assignments and required courses, passing the General Education Assessment examination (see information below), and through completion of a capstone experience in the major.

Policies Concerning the UCM General Education Program

The Faculty Senate General Education Committee is charged with the development and interpretation of policies concerning the General Education Program.

General Policies Governing UCM General Education

The minimum number of required General Education semester credit hours for all students, regardless of their program of study, is 42. Some degree programs may require up to six additional hours of General Education depending on the math, science, and technology courses required.

Courses taken to fulfill General Education requirements may not be taken on the pass/fail basis. Students who have fulfilled all General Education requirements in a specific area may elect to take additional General Education courses as free elective hours in the same area on the pass/fail basis.

Placement and Prerequisites for General Education Classes

Placement into Writing I, Mathematics, and some Science courses is based on planned placement. Click the Planned Placement link in the navigation bar on the left side of this online page or click here for detailed information. Students who do not meet ACT/SAT score requirements for enrollment in such courses will be required to complete prerequisite coursework. Courses which require planned placement are marked with a "+" in the general education course listing. Some Fine Arts courses may require an audition or placement assessment for enrollment. These courses are marked with an "^".

United States and Missouri Constitutions Requirement (State Law Requirement, Section 170.011)

Missouri state law requirement, Section 170.011 RSMO Supp (1988) requires that all students at public Missouri institutions have a course that teaches the constitutions of Missouri and the United States. Find more information about this requirement at moga.mo.gov/statutes/c100-199/1700000011.htm. The following courses in the UCM General Education program fulfill this requirement: HIST 1350, HIST 1351, HIST 1402, and POLS 1510 or POLS 2511 and are denoted with a "#" in the General Education course listing. These courses must be taken from institutions in the state of Missouri. Courses from out-of-state institutions which are articulated or substituted for these courses will not fulfill state law requirement Section 170.011 RSMO Supp (1988). Students who have one of these courses from out of state or who have already fulfilled all nine hours of Knowledge Area III in the general education program may fulfill this requirement by passing an exam on the constitutions of the United States and of Missouri. This test is offered online, at no cost by the School of Social Sciences and Languages (660-543-8840, Wood 203). Testing information can be obtained by calling 660-543-8840.

Missouri Higher Education Civics Achievement Examination Requirement (State Law Requirement, Section 170.013)

Missouri state law requirement, Section 170.013 goes into effect Fall 2019 for students pursuing a degree at any public Missouri institution and requires that all students shall successfully pass an examination on the provisions and principles of American civics with a score of seventy percent or greater as a condition of graduation. The subject matter of the 50 question, multiple-choice test includes the US Constitution, the Bill of Rights, and other areas of government and American history. Students may fulfill this requirement by passing an exam offered in Blackboard or by providing proof on an official transcript of having passed the exam at another Missouri higher education institution. This test is offered online, at no cost. Students are encourage to take and pass the test during their first semester at UCM. The test may be taken any number of times until a passing score of at least 70 percent is earned. When the test is passed the requirement will show as fulfilled on the Central Degree Audit and a notation will be added to the student's transcript. Students who have not passed the exam by the time they have reached 60 credit hours will have a hold on their account and be prevented from enrolling in future coursework until the exam is successfully passed. Questions about the content of the test may be referred to the School of Social Sciences and Languages (Wood 203, 660-543-8840). Testing information can be obtained by calling the Testing Center at 660-543-4919.

Transfer Students and General Education

Transfer Students with a degree or the 42-hour core (MOTR CORE 42) from Missouri institutions.

Students who transfer to UCM with an Associate of Arts (A.A.) degree, an Associate of Arts in Teaching (A.A.T.) degree, or a bachelor's degree from an appropriately regionally accredited institution in Missouri, or have met the Missouri 42-hour General Education Core (MOTR CORE 42) requirements are considered to have met UCM's 42-hour general education program, state law requirement Section 170.011 RSMO Supp (1988), and the nine general education competencies with the exception of any specific general education courses required by the student's major/minor.

Transfer Students with a degree from out-of-state institutions. Students who transfer to UCM with an Associate of Arts (A.A.) degree, an Associate of Arts in Teaching (A.A.T.) degree, or a bachelor's degree from an appropriately regionally accredited institution outside of the state of Missouri are considered to have met UCM's 42-hour general education program and the nine general education competencies with the exception of any specific general education courses required by the major/minor and state law requirement Section 170.011 RSMO Supp (1988). These students must fulfill state law requirement Section 170.011 RSMO Supp (1988) by either successfully completing a course at UCM in General Education denoted with a "#" or by passing an exam on the constitutions of the United States and Missouri offered by School of Social Sciences and Languages (Wood 203, 660-543-8840).

Transfer students without a degree or the Missouri 42-hour core. Students who transfer from an out-of-state institution without a degree will have their courses evaluated on a course-by-course basis for UCM's general education program. Courses from out-of-state institutions which are articulated or substituted for history or social/behavioral science courses that fulfill state law requirement Section 170.011 RSMO Supp (1988) will not fulfill this requirement. Students in this situation may fulfill this requirement by either successfully completing a course at UCM in the General Education denoted with a "#" or by passing an exam on the constitution of the United States and of Missouri offered by School of Social Sciences and Languages (Wood 203, 660-543-8840).. Students who transfer from an in-state institution without a degree or the Missouri 42-hour General Education Core (MOTR CORE 42) requirements will have their courses evaluated on a course-by-course basis for both the UCM general education program and the Missouri Higher Education Core Transfer Curriculum (CORE 42). These students will work with their Success Advisor to determine the best general education path (UCM's curriculum or the CORE 42 curriculum).

Major Required General Education Classes

Some majors require specific General Education courses. Such courses are listed in this catalog for each program. Some major programs list required general education courses in the major hours, some list them in the general education hours, and some programs list required general education classes in both major and general education hours.

Should a student change majors or minors from a program that does not require specific General Education courses to a program that does, a student may have to take additional credit hours in one or more of the defined areas of the General Education program if she/he has not taken the specific General Education course listed as a major or minor requirement. This applies to transfer students as well, even if a prior degree or the Missouri 42 hour core has been completed.

Honors Students and General Education

Students who participate in The Honors College Program and then choose to leave that program will be allowed to use courses taken to complete Honors General Education requirements in the non-honors general education. For example, students who completed six hours of modern foreign language as part of the Honors Program will be allowed to continue to use the extra three hours of language in place of the Fine Arts requirement. If a major or minor requires a particular general education course in a category, the honors substitution will not be honored.

General Education Assessment Policy

Assessment is a key process that is used in the academic, administrative, and student support services areas. Because the core purpose of higher education institutions is student learning, assessment at UCM serves three primary purposes: A) improvement of student learning and instruction, B) accomplishment of institutional mission, and C) accountability for achievement of educational goals.

Our university has established a minimum score for the General Education Assessment to ensure critical thinking, reading and writing skills are prevalent as a preparedness check for enrollment in upper-division courses as well as a condition for graduation. Central Missouri wants to ensure that every student who graduates from our institution has a basic set of intellectual and reading skills in those areas defined by employers and educators as deemed necessary for success.

All undergraduate students seeking a degree at Central Missouri; except teacher education majors, RN-BS Nursing majors, and post-baccalaureate students (from UCM and transfer institutions); must, as a condition for graduation:

- Take the General Education Assessment (GEA), UCM currently utilizes The ETS Proficiency Profile, in the semester after which a total of 60 credit hours have been earned.
 - Pass the GEA by obtaining a minimum score of 425 (based on a scaled score of 400 - 500).
- Additional information on the ETS Proficiency Profile may be viewed at ets.org/proficiencyprofile/about.

An enrollment hold (TC Hold) will be placed on a student's account for failing to take the GEA the semester after which a total of 60 credit hours have been earned or for not fulfilling the General Education Assessment Policy.

Students unsuccessful in obtaining the minimum total score of 425 (based on a scaled score of 400 - 500) are required to contact Testing Services staff to discuss remediation prior to retaking the GEA. After two or more unsuccessful attempts, students are required to submit documentation to the Faculty Senate University Assessment Council subcommittee to discuss possible solutions/actions.

Transfer Students and General Education Assessment

Transfer students, with at least 60 credit hours, must test during their first semester at UCM.

Transfer students who have taken the Collegiate Assessment of Academic Proficiency (CAAP), the College-BASE for General Education, ETS Proficiency Profile, or former teacher education majors who have passed the MoGEA, may request Testing Services to review scoring on alternative exams as a substitution for the General Education Assessment Policy.

- A score report must be sent directly from the testing company or previous institution to the Office of Testing Services. Most institutions require written consent to release a score report.
- The test must have been taken within the past 10 years.
- Testing Services staff will review the score reports to determine if they meet UCM's minimum score requirement on these exams.

General Education Assessment Test Registration

Registration for the GEA is available through www.registerblast.com/ucmo. Registration is also available through MyCentral. Click on the "student" tab, then the "Records and Registration" tab, then the "Register for a Test" link at the bottom right hand corner. Complete the registration process as directed. See <https://www.ucmo.edu/offices/testing-services/> for complete information on the General Education Assessment Policy and requirements.

Teacher Education Majors and General Education Assessment

Teacher Education Majors are required by the Missouri Department of Elementary and Secondary Education (DESE) to take and pass all sections of the Missouri General Education Assessment (MoGEA). This test is used for admission into undergraduate professional education programs at all Missouri colleges and universities, and includes sections on English language arts, writing, mathematics, science, and social studies. For more information about test dates, fees, and to register, please go to mo.nesinc.com. For information about required passing scores, students should consult with their success advisor or program coordinator.

Admission to Degree Programs and General Education Assessment

Nursing Majors. Students seeking admission to the nursing program are required to fulfill the General Education Assessment Policy and take the nursing entrance exam as a condition for admittance. The General Education Assessment Policy does not apply to Registered Nurses seeking a B.S. in Nursing.

The General Education Program Requirements

The minimum number of required General Education semester credit hours for all students, regardless of their program of study, is 42. Some degree programs may require up to six additional hours of General Education depending on the math, science, and technology courses required.

Courses taken to fulfill General Education requirements may not be taken on the pass/fail basis. Students who have fulfilled all General Education requirements in a specific area may elect to take additional General Education courses as free elective hours in the same area on the pass/fail basis.

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.

A Guide to Symbols Used in General Education

- + Planned placement required for enrollment
- ^ Audition or placement assessment required for enrollment
- # Course fulfills state law requirement Section 170.011 RSMO Supp (1988) (US/Missouri Constitutions)
- ◆ Course has environmental, economic, and/or social sustainability as a major objective.

GE Denotes a general education course when listed in other parts of this catalog.

Foundational Skills Areas 11-12 Hours

Four courses must be taken to fulfill this area: one Writing I, one Writing II, one Managing Information, and one Communication course (see listing below). Some students may exceed the 11 credit hour minimum depending on course selection and major-required Managing Information courses.

UCM graduates will demonstrate mastery of intellectual and practical skills by

- writing with clarity and purpose using appropriate conventions of format, structure, and documentation;
- acquiring and managing information effectively through research and the uses of current and emerging technologies; and
- presenting and interacting effectively in professional, group, and interpersonal settings.

Writing I - 3 Credit Hours

These courses fulfill General Education Competency 1.

Choose One Course From the Following:

- ENGL 1020 - Composition I GE (3) +
- ENGL 1080 - Advanced Composition GE (3) + *

Note:

+Eligibility for enrollment in this course is based on university planned placement guidelines. [Click here for more information about Planned Placement.](#)

*Students who earn a grade of C or higher in ENGL 1080 will be awarded an additional 3 hours of special credit (CR) for ENGL 1020 and will have fulfilled the six hours of writing requirement in general education. Students who earn a grade of D in ENGL 1080 may either opt to repeat the course or enroll in CTE 3060/ENGL 1030 to fulfill the six hours of writing requirement in general education.

Writing II - 3 Credit Hours

These courses fulfill General Education Competency 1.

Choose One Course From the Following*:

- CTE 3060 - Technical Writing GE (3)
- ENGL 1030 - Composition II GE (3)

Note:

*Students who earn a grade of C or higher in ENGL 1080 will be awarded an additional 3 hours of special credit (CR) for ENGL 1020 and will have fulfilled the six hours of writing requirement in the general education. These students will not have to enroll in CTE 3060 or ENGL 1030.

Managing Information - 2-3 Credit Hours

These courses fulfill General Education Competency 5.

Choose One Course From the Following:

- ART 1610 - Web Languages GE (3)
- CIS 1600 - Business Information Management GE (3)
- CS 1020 - Introduction to Biomedical Informatics GE (3)
- CTE 1210 - Managing Information Using Computer Applications GE (2)
- CTE 2000 - Technology and Society GE (3)
- GEOS 2300 - Acquiring and Managing Spatial Information GE (2)
- LIS 1010 - Truth, Lies and Information Management GE (2)
- LIS 1600 - University Library and Research Skills GE (2)

Communication - 3 Credit Hours

These courses fulfill General Education Competency 2.

Choose One Course From the Following:

- COMM 1000 - Public Speaking GE (3)
- COMM 1050 - Fundamentals of Oral Communication Competency GE (3)
- MKT 1401 - Professional Speaking and Presentation GE (3)
- THEA 1100 - Oral Interpretation GE (3)

Knowledge Areas 28 Hours

Knowledge Area I 9 Hours

Three courses must be taken to fulfill this area: one Literature, one Fine Arts, and one additional course (see listing below). UCM graduates will demonstrate knowledge of the world in which we live by acquiring knowledge and appreciation of and/or participation in the creation or performance of literature, languages, and the arts using the standards of evidence and reasoning appropriate to the humanities and the arts.

Literature - 3 Credit Hours

These courses fulfill General Education Competencies 1 and 6.

Choose One Course From the Following:

- ENGL 2010 - Introduction to Reading Poetry and Drama GE (3)
- ENGL 2020 - Introduction to Reading Fiction GE (3)
- ENGL 2200 - American Literature to 1865 GE (3)
- ENGL 2205 - American Literature 1865 to Present GE (3)
- ENGL 2210 - British Literature to 1798 GE (3)
- ENGL 2215 - British Literature 1798 to Present GE (3)
- ENGL 2220 - World Masterpieces GE (3)
- ML 2000 - World Literatures in Translation GE (3)

Fine Arts - 3 Credit Hours

These courses fulfill General Education Competency 6.

Take any combination of courses from the list below for a total of three credit hours. If the same one-hour course is taken more than once, all grades will count for each time attempted.

Choose Three Hours From the Following:

- ART 1800 - Ideas and the Visual Arts GE (3)
- ART 1815 - Art History Survey I GE (3)
- ART 1825 - Art History Survey II GE (3)
- ART 1835 - Global Arts and Culture GE (3)
- COMM 3000 - Film Appreciation GE (3)
- DANC 2100 - Dance Appreciation GE (3)
- MUS 1210 - Experiencing Music GE (3)
- MUS 1220 - The Evolution of a Popular Art: An Introduction to Rock Music GE (3)
- MUS 1281 - History and Development of Jazz GE (3)
- MUS 3212 - Music of the Common Practice Era GE (3) ^

- THEA 2400 - Discovering Theatre GE (3)

Note:

^Audition or placement assessment required for enrollment. Contact Music (UTT 111, 660-543-4530).

Additional Courses for Knowledge Area I - 3 hours

These courses fulfill General Education Competency 6.

Choose one additional course from the Literature or Fine Arts categories above or one course below from Languages or Humanities. If an additional Fine Arts course is chosen, it must be a three-credit hour course from the Fine Arts list above. The one-hour courses may not be used to fulfill this category if Fine Arts is selected for the "Additional Courses for Knowledge Area I".

Languages:

High school coursework completed or placement examination determines the level of a student's initial enrollment in elementary and intermediate foreign language courses. For more information contact School of Social Sciences and Languages (Wood 203, 660-543-8840).

- CD 1401 - American Sign Language 1 GE (3)
- CD 1402 - American Sign Language 2 GE (3)
- CHIN 1701 - Elementary Chinese I GE (3)
- CHIN 1702 - Elementary Chinese II GE (3)
- FREN 1201 - Elementary French I GE (3)
- FREN 1202 - Elementary French II GE (3)
- FREN 2201 - Intermediate French I GE (3)
- FREN 2202 - Intermediate French II GE (3)
- GER 1301 - Elementary German I GE (3)
- GER 1302 - Elementary German II GE (3)
- GER 2301 - Intermediate German GE (3)
- GER 2302 - Intermediate German II GE (3)
- ML 1040 - Special Projects in Modern Languages GE (1-3) (3) (Elementary Japanese I)
- ML 1040 - Special Projects in Modern Languages GE (1-3) (3) (Elementary Japanese II)
- SPAN 1601 - Elementary Spanish I GE (3)
- SPAN 1602 - Elementary Spanish II GE (3)
- SPAN 1611 - Elementary Spanish I for Healthcare Professionals GE (3)
- SPAN 1612 - Elementary Spanish II for Healthcare Professionals GE (3)
- SPAN 2601 - Intermediate Spanish I GE (3)
- SPAN 2602 - Intermediate Spanish II GE (3)
- SPAN 2611 - Intermediate Spanish I for Healthcare Professionals GE (3)
- SPAN 2612 - Intermediate Spanish II for Healthcare Professionals GE (3)

Humanities:

- ART 1620 - Web Graphics GE (3)
- COMM 1200 - Introduction to Mass Communication GE (3)
- PHIL 1000 - Introduction to Philosophy GE (3)

- PHIL 1410 - Critical Thinking GE (3)
- WGS 1050 - Women's Voices GE (3)

Knowledge Area II 10 hours

Three courses must be taken to fulfill this area: one Science with a Laboratory, one Mathematics, and one additional course (see listing below). Some students may exceed the 10 credit hour minimum depending on course selection and major-required science and mathematics courses.

UCM graduates will demonstrate knowledge of the world in which we live by acquiring knowledge of the physical and natural world using the standards of evidence and reasoning appropriate to the sciences, mathematics, and technology.

Science with a Laboratory - 4 Credit Hours

These courses fulfill General Education Competency 7.

Choose One Course From the Following:

- AGRI 1600 - Introduction to Horticulture Science GE (4: 3 lecture, 1 lab)
- BIOL 1003 - Introduction to the Sciences: Ecology GE (3) * AND
- BIOL 1006 - Environmental Science/Ecology Lab GE (1:1 lab) *
- BIOL 1004 - Introduction to the Sciences: Ecology GE (4: 3 lecture, 1 lab) **
- BIOL 1005 - Introduction to Environmental Science GE (3) * AND
- BIOL 1006 - Environmental Science/Ecology Lab GE (1:1 lab) *
- BIOL 1007 - Plants and Society GE (4: 3 lecture, 1 lab)
- CHEM 1104 - Introduction to the Sciences: Chemistry GE (4: 4 lecture, 0 lab) **
- CHEM 1131 - General Chemistry I GE (5: 5 lecture, 0 lab)
- GEOS 1004 - Introduction to Geology GE (4: 3 lecture, 1 lab)
- GEOS 1114 - Weather and Climate GE (4: 3 lecture, 1 lab)
- PHYS 1101 - College Physics I GE (4: 4 lecture, 0 lab)
- PHYS 1104 - Introduction to the Sciences: Physics GE (4: 4 lecture, 0 lab)
- PHYS 2121 - University Physics I GE (5: 5 lecture, 0 lab)
- STCH 1003 - Great Concepts in Science GE (4: 3 lecture, 1 lab)

Note:

*Courses must be taken together in the same semester.

**Students who have earned credit in BIOL 1004 in the Science with a Laboratory category are not eligible for credit in BIOL 1003 in the Science without a Lab category. Students who have earned credit in CHEM 1104 in the Science with a Laboratory category are not eligible for credit in CHEM 1103 in the Science without a Lab category. Students who have earned credit in PHYS 1104 in the Science with a Laboratory category are not eligible for credit in PHYS 1103 in the Science without a Lab category.

Mathematics - 3 Credit Hours

These courses fulfill General Education Competencies 3 and 7.

Choose One Course From the Following:

- ACST 1300 - Basic Statistics GE (3) +
- MATH 1111 - College Algebra GE (3) +
- MATH 1131 - Applied Calculus GE (3) +
- MATH 1150 - Pre-Calculus Mathematics GE (5) +
- MATH 1151 - Calculus I GE (5) +
- MATH 1215 - The Mathematics of Decision Making GE (3) +
- MATH 1520 - Mathematical Reasoning & Modeling GE (3) +
- MATH 1620 - Introduction to Geometry and Decision Making for Educators GE (3) +
- MATH 1820 - Introduction to Numbers and Operations for Educators GE (3) +

Note:

+Eligibility for enrollment in this course is based on university planned placement guidelines. [Click here for more information about Planned Placement.](#)

Additional Courses for Knowledge Area II - 3 Credit Hours

These courses fulfill General Education Competency 7.

Choose One Additional Course From

The Science with a Laboratory or Mathematics categories above or one course from the following:

- ANTH 1810 - Human Prehistory GE (3)
- BIOL 1003 - Introduction to the Sciences: Ecology GE (3) *
- BIOL 1005 - Introduction to Environmental Science GE (3)
- BIOL 2010 - Human Biology GE (3)
- BIOL 2510 - Basic Genetics GE (3)
- CHEM 1103 - Introduction to the Sciences: Chemistry GE (3) *
- CMGT 3010 - Applied Construction Practices GE (3: 2 lecture; 1 lab)
- CS 1010 - Introduction to Computer Science GE (3)
- CS 1030 - Introduction to Computer Programming GE (3)
- GEOS 1100 - Physical Geography GE (3)
- MUS 1450 - Audio and Acoustics GE (3)
- PHYS 1103 - Introduction to the Sciences: Physics GE (3) *
- STCH 3020 - Science and Engineering Practices GE (3)

Note:

*Students who have earned credit in BIOL 1004 in the Science with a Laboratory category are not eligible for credit in BIOL 1003 in the Science without a Lab category. Students who have earned credit in CHEM 1104 in the Science with a Laboratory category are not eligible for credit in CHEM 1103 in the Science without a Lab category. Students who have earned credit in PHYS 1104 in the Science with a Laboratory category are not eligible for credit in PHYS 1103 in the Science without a Lab category.

Knowledge Area III 9 hours

Three courses must be taken to fulfill this area: one History, one Social/Behavioral Science, and one additional course (see listing below). Within the nine hours required in Knowledge Area III, all students must select a course which fulfills state law requirement Section 170.011 RSMO Supp (1988). These courses are marked with a "#".

UCM graduates will demonstrate an ability to comprehend, evaluate, and analyze aspects of the human experience through an understanding of history and the social and behavioral sciences and the standards of evidence that create knowledge within those frameworks. Students will learn substantive content as well as the relevant evaluative process of reasoning, evidence, and argument.

United States and Missouri Constitutions Requirement (State Law Requirement, Section 170.011)

Within the nine hours required in Knowledge Area III, all students must select a course which fulfills state law requirement Section 170.011 RSMO Supp (1988). These courses are marked with a "#". These courses must be taken from institutions in the state of Missouri. Courses from out of state institutions which are articulated or substituted for these courses will not fulfill state law requirement Section 170.011 RSMO Supp (1988). Students who have one of these courses from out of state or who have already fulfilled all nine hours of Knowledge Area III may fulfill this requirement by passing an exam on the constitutions of the United States and of Missouri offered by School of Social Sciences and Languages (Wood 203, 660-543-8840).

History - 3 Credit Hours

These courses fulfill General Education Competency 8.

Choose One Course From the Following:

- HIST 1350 - History of the United States to 1877 GE (3) #
- HIST 1351 - History of the United States from 1877 GE (3) #
- HIST 1400 - History of the Early World GE (3)
- HIST 1401 - History of the Early Modern World GE (3)
- HIST 1402 - History of the Modern World GE (3) #

Social/Behavioral Sciences - 3 Credit Hours

These courses fulfill General Education Competency 8.

Choose One Course From the Following:

- ANTH 2820 - Anthropology of Food GE (3)
- CFD 1010 - Individual and Family Relationships GE (3)
- CJ 1000 - Introduction to Criminal Justice GE (3)
- ECON 1010 - Principles of Macroeconomics GE (3)
- ECON 1011 - Principles of Microeconomics GE (3)
- EDFL 2240 - Educational Psychology GE (3)
- FAME 3434 - Fashion History of Costume GE (3)
- GEOG 2101 - Introduction to Sustainability GE (3)
- GEOG 2212 - World Geography GE (3) ♦
- IS 1000 - Introduction to International Studies GE (3)
- POLS 1500 - Introduction to Politics GE (3)
- POLS 1510 - American Government GE (3) #

- POLS 2511 - State Government GE (3) #
- POLS 2530 - World Politics GE (3)
- POLS 3522 - Modern Asia GE (3)
- PSY 1100 - General Psychology GE (3)
- PSY 1320 - Psychology of Personal Adjustment GE (3)
- PSY 4230 - Psychology of Adolescence GE (3)
- REL 1510 - Introduction to World Religions GE (3)
- SOC 1800 - General Sociology GE (3)
- SOC 1830 - Social Problems GE (3)
- SOWK 2600 - Introduction to Social Welfare and Social Work GE (3)
- WGS 2000 - Intersections: Gender, Race, Class GE (3)

Additional Courses for Knowledge Area III - 3 Credit Hours

Choose one additional course from either the History or Social/Behavioral Sciences areas above.

Engagement 3 hours

One course from the listing below must be taken to fulfill this area.

UCM graduates will demonstrate an understanding of individual and social responsibility by evaluating individual actions, intercultural relationships, and social choices within local/global frameworks using ethical reasoning, civic principles, and cultural values.

Engagement (Individual and Social Responsibility) - 3 Credit Hours

These courses fulfill General Education Competencies 4 and 9.

Choose One Course From the Following:

- AGRI 2130 - Global Agriculture GE (3)
- ANTH 1820 - Cultural Anthropology GE (3) ♦
- CIS 1612 - Ethics in Information Technology GE (3)
- COMM 2000 - Media Literacy GE (3)
- COMM 3340 - Intercultural Communication GE (3)
- CS 1000 - Computers and Modern Society GE (3)
- CYBR 1800 - Introduction to Cybersecurity GE (3)
- CTE 3116 - Creative Thinking for a Better World GE (3)
- ECEL 2110 - Diversity and Social Justice GE (3)
- ESE 1200 - Foundations of Leadership Skills GE (3)
- FAME 3442 - Sustainability for Consumer Products GE (3) ♦
- FIN 1820 - Personal Finance GE (3)
- GEOG 3101 - Practicing Sustainability GE (3) ♦
- GEOG 3201 - The Cultural Landscape GE (3) ♦
- HIST 2410 - Introduction to Africana Studies GE (3)
- HLTH 1100 - Personal Health GE (3) ♦
- HLTH 1200 - Applied Nutrition for Healthy Living GE (3)
- MUS 1225 - Music of the World's Cultures GE (3)

- NUR 2200 - Culture and Sustainability in Health GE (3) ♦
- KIN 1206 - Fitness for a Global Community GE (3)
- PHIL 2300 - Ethics GE (3) ♦
- POLS 3535 - Model United Nations GE (3)
- POLS 3581 - Trial Advocacy GE (3)
- REL 2310 - Religious Issues Today GE (3)
- SAFE 2010 - Practical Safety and Security GE (3)
- WGS 2050 - Sexuality, Identity & Social Action GE (3)

Integration 1-8 Hours in the Major

Students will integrate the knowledge and skills from the general education program with major-specific content through a cumulative work or experience that demonstrates the ability to gather information, perform synthesis and analysis, and communicate in a technical and proficient manner.

Students will complete one of the courses listed below as prescribed by their major curriculum*. See the major section of this catalog for more information. These courses fulfill General Education Competency 10:

- ACST 4645 - Senior Projects in Actuarial Science and Statistics (3)
- AGRI 4101 - Agricultural Capstone Experience (3)
- ANTH 4890 - Anthropology Senior Seminar (3)
- ART 4020 - Studio Seminar (3)
- ART 4360 - Interior Design Thesis II (3)
- ART 4511 - Painting III (3)
- ART 4513 - Painting III: Plein Air (3)
- ART 4515 - Painting III: Figure (3)
- ART 4630 - Graphic Design 3B (3)
- ART 4920 - Methods of Teaching Art III: Student Teaching Seminar (3)
- ATM 4112 - ATM Capstone Experience (3)
- AVIA 4101 - Airport Leadership B (2)
- AVIA 4370 - Advanced Flight Crew Management (3)
- AVIA 4430 - Corporate Aviation Management (3)
- BIOL 4002 - Life Science Senior Seminar (1)
- BIOL 4003 - Radiologic Technology Senior Seminar (1)
- BIOL 4222 - The Biological Perspective (3)
- CADD 4180 - Industrial Design (3: 3 lecture, 0 lab)
- CD 4803 - Undergraduate Clinical Practicum II (1)
- CDM 4800 - Integrated Emergency Management (3)
- CFD 4745 - Senior Seminar (3)
- CHEM 3920 - Communication Skills in Chemistry (2)
- CJ 4020 - Crime, Justice and Social Diversity (3)
- CMGT 4400 - Construction Operations (3)
- COMM 4490 - Senior Capstone Seminar (1)
- COMM 4790 - Senior Capstone (1)
- CYBR 4820 - Introduction to Information Assurance (3)
- CS 4920 - Senior Project (3)
- CTE 4022 - Teaching/Administration Intern (1-3) (3)
- D&N 4345 - Senior Dietetics Seminar* (3)

- ENGL 4054 - Practicum in Editing and Publishing (3)
- ENGL 4240 - Senior Capstone in Literature (3)
- ENGT 4110 - Engineering Technology Problem Solving (3)
- FAME 4445 - Senior Seminar in Fashion and Apparel Merchandising (3)
- FLDX 4395 - Student Teaching in Special Education I (1-12) (5-8)
- FLDX 4468 - Student Teaching Secondary II (1-12) (4-6)
- FLDX 4495 - Student Teaching Elementary I (1-12) (5)
- FLDX 4496 - Student Teaching Elementary II (1-12) (4)
- FLDX 4497 - Student Teaching Middle School I (1-12) (6)
- GISL 4244 - Cross-Cultural Cinema (3)
- HIST 4500 - Senior Capstone in History (3)
- HLTH 4765 - Internship (6)
- IS 4950 - Senior Seminar (3)
- KIN 4765 - Internship (6)
- MATH 4233 - The Scientific, Historical, and Sociological Impact of Mathematics (3)
- MGT 4357 - Organizational Policy and Strategy (3)
- MUS 4000 - Special Projects in Music (0-3) (1-3)
- MUS 4060 - Senior Recital (1-2) (2)
- MUS 4310 - Methods of Teaching Music (2)
- MUS 4430 - Seminar in Music Technology (2)
- MUS 4514 - Piano Pedagogy IV - Seminar (3)
- NET 4063 - Network Support (3)
- NUR 4111 - Socio-Economic Factors Impacting Health (3)
- PE 4551 - Fundamental Techniques in Coaching (3)
- PE 4975 - Practicum in PreK-12 Physical Education (1)
- POLS 4601 - Senior Seminar in Political Science (3)
- PR 4690 - Public Relations Campaigns (3)
- PSY 4110 - History of Psychology (3)
- SAFE 4055 - Safety Capstone Experience (3)
- SE 4920 - Senior Project (3)
- SM 4980 - Internship (6)
- SOC 4895 - Senior Seminar in Public Sociology (3)
- SOWK 4661 - Field Practicum Seminar (3)
- TECH 4950 - Seminar in Technology Management (3)
- THEA 4400 - Literature and History of the Theatre I (3)
- THEA 4430 - American Musical Theatre History (3)

Note:

*Students pursuing a named individualized major program will have a course identified in their program of study to fulfill Competency 10 as determined by the faculty advisor who signs off on the program. Students pursuing the General Studies individualized major may complete any course with the IGEN prefix to fulfill Competency 10.

The Honors College Program

The Honors College offers an academic program specifically designed to enrich the knowledge base, skills, and educational experience of high achieving and exceptionally motivated undergraduate students. Students

in The Honors College declare a major from among those offered by UCM's academic colleges and complete requirements specific to The Honors College.

Among many other benefits, students in The Honors College have unique access to Honors-designated course sections and interdisciplinary colloquia, and are provided with the support and resources needed to pursue advanced-level research and creative projects in their areas of academic interest.

Admission Criteria

The Honors College considers applications for admission from qualified high school graduates (minimum ACT score of 25 and a minimum cumulative high school GPA of 3.50), transfer students and current UCM students (minimum cumulative college GPA of 3.50). Students interested in learning more about The Honors College are encouraged to visit The Honors College Website. Alternatively, prospective students may contact the The Honors College by phone, 660-543-4633 or email.

Students interested in applying to The Honors College may do so online.

Features of The Honors College

Among other benefits, students in The Honors College enjoy:

- Early enrollment privileges
- Honors-designated course sections
- Honors-only colloquia
- Research resources and support
- Vibrant living and learning community (Honors SHIP)
- Study abroad travel grant
- Transcript recognition

Typically, Honors-designated course sections include:

- ECON 1010 - Principles of Macroeconomics GE (3)
- ENGL 1030 - Composition II GE (3)
- ENGL 1080 - Advanced Composition GE (3)
- LIS 1600 - University Library and Research Skills GE (2)
- MATH 1111 - College Algebra GE (3)
- PSY 1100 - General Psychology GE (3)
- SOC 1800 - General Sociology GE (3)

Required Honors Courses

HONR 3000 - Honors Colloquium (2)

HONR 4000 - Honors Project (4)

All Honors College students are required to complete HONR 3000 and HONR 4000. These courses are reserved solely for Honors College students and may count as free choice electives towards the minimum hours for a degree. Not all majors require free choice electives, see major program for more details. For such majors, these hours will be in addition to minimum degree requirements.

HONR 3000 is an interdisciplinary course taught by selected faculty. Content varies from semester to semester. This course may be repeated for a maximum of six credit hours. Enrollment in HONR 3000 requires sophomore standing (30 or more earned hours) or approval from The Honors College.

HONR 4000 is a capstone research or creative project pursued under the supervision of a UCM faculty advisor selected by the student. Students are welcome to discuss their Honors Project ideas with the Coordinator of Undergraduate Research, but it is no longer a requirement to do so prior to submitting a proposal.

The Honors Project Proposal must be approved and on file in the The Honors College office prior to enrolling in HONR 4000. Enrollment in HONR 4000 requires senior standing (90 or more earned hours) or approval from The Honors College.

General Education Program Requirements

Students in The Honors College must fulfill the minimum 42 hours (some majors require more) of general education as outlined in the undergraduate catalog.

Honors College students should consult with their UCM Academic Success Advisor prior to selecting courses.

There are a few differences in the general education program for students in The Honors College Program.

Writing I and II. Honors College students with an ACT English score of 26 or above are strongly encouraged to enroll in ENGL 1080. Students who earn a grade of C or higher in ENGL 1080 will be awarded an additional 3 hours of special credit (CR) for ENGL 1020 and will have fulfilled the six hours of writing requirement in the general education unless additional coursework is required by the major. Students who earn a grade of D in ENGL 1080 may either opt to repeat the course or enroll in CTE 3060/ENGL 1030 to fulfill the six hours of writing requirement in the general education. Students whose major requires CTE 3060 to fulfill the second writing course should not opt to take ENGL 1080.

Knowledge Area I. In the regular general education (for non-Honors College students), this area is comprised of nine credit hours: literature, fine arts, and a third choice. Within these nine hours, Honors College students are required to take a literature class and two semesters (6 hours) of a single modern foreign language (placement policy applies). The three extra hours of modern foreign language take the place of the Fine Arts requirement.

Honors Course Substitutions

Each participant in The Honors College will be required to conform to the policy guidelines of The Honors College and the General Education Program. Please be aware that Honors College choices consist of those courses permitted on the major/minor programs or in the General Education Program requirements. In areas where majors require specific general education courses, alternative options may not be selected. See individual major requirements in the undergraduate catalog. Should a student leave The Honors College Program any prior approved changes in general education will be honored.

The Honors College Retention Policy

To remain in good standing in The Honors College, all Honors College students are required to meet the following requirements:

- Successfully complete The Honors College Program requirements in accordance with the appropriate Undergraduate Catalog.
- Maintain an undergraduate overall cumulative GPA of 3.25 or higher.
 - Incoming freshmen entering The Honors College who do not maintain a 3.25 or higher undergraduate overall cumulative GPA after two semesters will be dropped from The Honors College.
 - Transfer and current students entering The Honors College after a minimum of one semester as full-time college students who do not maintain a 3.25 or higher undergraduate overall cumulative GPA will be dropped from The Honors College.
 - Students dropped from The Honors College for not maintaining a 3.25 or higher undergraduate overall cumulative GPA may request reinstatement in The Honors College.
- Honors College students not currently enrolled at UCM will be dropped from The Honors College. Students studying abroad or otherwise temporarily not enrolled at UCM must notify the office of their plans.
 - Upon returning to UCM, students in good standing may request reinstatement in The Honors College.

For more information contact:

The Honors College
 Ward Edwards, Suite 1900
 University of Central Missouri
 Warrensburg, MO 64093
 Phone: 660-543-4633
 Fax: 660-543-8874
 Email: thehonorscollege@ucmo.edu
 Website: ucmo.edu/thehonorscollege

Additional Academic Opportunities

Open Option Program

UCM openly welcomes students who are undecided and want to keep their options open. Students who are unsure about what academic program best fits them may choose to be an Open Option student. This program is intended to ensure students are progressing toward the completion of a degree while they are actively exploring their academic options. Some of the services available to assist Open Option students are:

- Specialized assistance in academic success advising. Success advisors will aid students in selecting courses to keep them progressing toward graduation, even though they are unclear about their academic direction.
- Individualized Career Counseling. Success advisors credentialed in career counseling help students explore their options, narrow their focus, and methodically make a major decision. The success advisors utilize today's most valid and reliable resources available to assist students with their decision-making process.
- Exploring Majors and Careers (UNIV 1410). This is a one-credit-hour career development course designed to introduce students to a wide range of academic programs and career options. Special emphasis is given to an exploration of self through the use of career assessments and individual career counseling sessions, as well as individual and group activities, discussions, and interviews specifically designed to facilitate a methodical approach to assist students with identifying "right fit" career options and the academic paths that lead to those options.
- Informational Interviewing and Job Shadowing. Career Development Coordinators in the Career Services Center have access to over 8,000 individual employer and alumni contacts that can be

utilized by students to learn more about specific career paths and the desired academic programs that lead to those options.

The Open Option program is not designed to be a long-term academic status or program. It is designed to be a bridge between being unsure and confidently deciding on an academic program. At UCM, we are committed to helping every student make continuous and steady progress toward graduation, and to successfully graduate in a program best suited to him/her as an individual. To that end, the following rules apply to individuals who choose to be Open Option students:

- First-Time, Full-Time Students (FTFT). FTFT students will be enrolled in UNIV 1410, Exploring Majors and Careers, and will need to reach a decision/declare their major by the time they have earned 30 credit hours, or before enrolling in their third semester (whichever comes first).
- Continuing Students. Continuing students, who are in an academic program and have determined that program to no longer be a fit, may change their status to Open Option. Students in this category with 30 or more credit hours will need to decide on an academic program prior to their enrollment in the semester following their decision to change their status to Open Option. Students with less than 30 credit hours earned should refer to the FTFT rules above.
- New Transfer Students and Readmitted Students. New students transferring in to UCM, as well as UCM students who are coming back after a break in their college career, may choose to enter UCM as Open Option students. These students will be enrolled in UNIV 1410, Exploring Majors and Careers. Students in this category with 30 or more credit hours earned will need to decide on an academic program during their first semester, prior to their enrollment for the subsequent semester. By taking active steps to explore and decide on a major before accumulating 30 or more hours of credit, students greatly improve their chances of making timely progress toward graduation.

For more information about the Open Option Program at UCM, or to make an appointment with a success advisor that specializes in career counseling, students should contact the Success Advising Center (Elliott Student Union 128, 660-543-4721).

Pre-Professional Education

UCM programs take an active role in preparing students for admission to professional schools in the following areas:

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

Students wishing to pursue pre-professional programs are assigned to an appropriate faculty advisor whose job it is to mentor the advisees:

- by helping them plan and prepare a program of study.
- by assisting them to prepare for appropriate post-baccalaureate admissions tests, e.g., MCAT, DAT, GRE, administered by national agencies. The faculty advisor shares pertinent information and resources of such tests, i.e., topics covered in the tests with the advisee. Many professional schools use the results of such tests as important criteria for admission.

- by emphasizing the importance of General Education in analytical and critical thinking, which is also evaluated in the written portions of some post-baccalaureate admission tests.
- by communicating the competitive nature of admission to the professional schools and the necessity of an "achiever's attitude" in the classroom.
- by providing student handbooks which summarize the admissions process to a professional school, e.g., *The Pre-Med Handbook*.
- 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.
- by encouraging hands-on student participation in profession-related work outside the classroom (e.g., volunteering or working in a health care facility).
- by polishing the communication skills of student applicants for professional school interviews.

In addition, programs 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 advisor from the following list:

- Dr. Benecia Carmack, School of Public Services
- Dr. Steven Popejoy, School of Business Administration: Division of Business Strategy
- Dr. Jim Staab, School of Social Sciences and Languages

These advisors 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 Majors and Minors

Individualized majors and minors allow students to create an academic program that is personalized to meet their educational and career goals. Students may request an individualized undergraduate major or minor not listed in the *Undergraduate Catalog*, but consisting of courses offered herein. An individualized program requires thoughtful planning and collaboration with the school chair of the individualized major or minor. School chairs have the right to deny an individualized major or minor not based on these principles. An individualized major or minor may include coursework across various disciplines, but must satisfy all of the following:

- All General Education Program requirements must be met.
- All university minimum requirements for a baccalaureate degree must be met.

The students' program includes a signed statement indicating they accept full responsibility for the proposal and understands that the individualized program may not be accepted or recognized by institutions other than UCM. Upon final approval of the individualized major or minor program, the student is notified by the Vice Provost's Office and a copy of the approved program is filed with the Registrar's Office.

UCM offers two types of individualized major and minor programs: Named programs and a General Studies program. The two programs have some curricular differences explained below.

Types of Individualized Majors and Minors

1. **Named Individualized Major or Minor.** Some examples of named programs are: "Art History"; "Criminal Psychology". The diploma and transcript will read, for example: Art History: Individualized Major. The following criteria must be met for a named individualized major or minor:
 - Must include a minimum of 40 credit hours and Named individualized minors must include a minimum of 20 credit hours.
 - Students pursuing a second major, minor, or degree in addition to the Named Individualized major or minor may overlap courses in the Named program with the other existing major or minor program.
2. **General Studies Individualized Major or Minor.** The General Studies major is intended to serve as a degree completion program for students with advanced earned hours. The diploma and transcript will read, for example: General Studies: Individualized Major. General Studies is not available as a double or second degree, major, or minor. The following criteria must be met for a General Studies major or minor:
 - Students may only declare a General Studies major or minor after earning 85 cumulative credit hours.
 - A General Studies major must contain a minimum of 43 credit hours. A General Studies minor must contain a minimum of 21 credit hours.
 - The General Studies major is comprised of four areas: Arts and Humanities (12 hours, 3 upper level), Social and Behavioral Sciences (9 hours, 3 upper level), Science, Technology, and Mathematics (10 hours), and a Concentration Area (12 hours, 6 upper level).
 - Overlap with General Education is allowed in this program with the exception of courses used to fulfill the core writing competency requirements (ENGL 1020, ENGL 1030, ENGL 1080, and CTE 3060) and courses used to complete the mathematics requirement of the General Education Program.
 - Students in major programs that require a minor and are interested in the General Studies minor will work with a success advisor to create a 21-credit-hour minor plan.

How to Declare an Individualized Major or Minor

1. **Named Individualized Major or Minor.** The student must select a faculty member to serve as a mentor to develop a proposed plan of study. The faculty member must be from the college where the majority of the courses in the individualized major or minor were taken. After the plan is created with a faculty member, it must also be approved by the school chair, the dean of that college, the Office of the Registrar, and the Vice Provost for Academic Programs and Services (in this order).
2. **General Studies Individualized Major or Minor.** Only students with at least 85 earned hours will be considered for a major in General Studies. Applications for a minor in General Studies will only be considered for students pursuing majors which require a minor. Students who are currently in a declared major at UCM must meet with their current major school chair for an exit interview. After this interview, the student will meet with a success advisor in the Office of Extended Studies (HUM

410, 660-543-4984) to develop the General Studies major or minor plan. Students who are undecided or do not have a declared major are not required to complete an exit interview. After the plan is created with an success advisor, it must also approved by the Office of the Registrar and the Vice Provost for Academic Programs and Services (in this order).

For more information about individualized major and minor programs, students should contact the Office of the Vice Provost for Academic Programs and Services (WDE 1800, 660-543-4116).

Study Abroad

UCM strongly believes that students should gain a global perspective with their educational experience. In order to facilitate this goal, the Study Abroad Office offers opportunities to study internationally and earn credits that count toward virtually every program of study at UCM. The mission of the Study Abroad Program at UCM is to provide high quality opportunities that are convenient, affordable and aligned with the demands of a globalized society. At UCM, every student can study abroad affordably, gain a valuable global perspective, and still graduate in 4 years. More information about the Study Abroad Program can be obtained from the Center for Global Education in Elliott Union 302. Students can also visit ucmo.edu/studyabroad or call 660-543-4195.

General Information about the Study Abroad Program

1. In order to study abroad, students must be in good academic standing and have completed at least 24 credit hours of college experience. There are also options for graduate students.
2. The Study Abroad Office offers 3 types of programs:
 - Exchange Programs: UCM partners with over 20 institutions worldwide to offer high-quality academic programs in our high-demand fields of study. Students pay UCM tuition and earn UCM credit.
 - 3rd Party-Providers: UCM works with trusted providers like ISA and ISEP to provide students with opportunities to study in over 300 institutions located in 65 countries. Students pay a program fee that usually includes tuition and earn credits that are transferable to UCM.
 - Short-Term Faculty-Led Programs: Students can travel abroad with a UCM faculty director and fellow UCM students and participate in courses specially designed to enhance international experiences, foster critical thinking, and engage cultural differences.
3. Students can study abroad for one semester, a full academic year, or over the summer, spring or winter breaks.
4. Additionally, the Study Abroad Office supports academic service-learning abroad, independent research abroad, international internships and co-curricular experiences abroad that incorporate academic content.
5. The Study Abroad office reviews student transcripts from abroad and submits course equivalencies to the Registrar, usually within 3 months of returning.
6. Students should be aware that studying abroad in their final semester of study will likely delay graduation.
7. Students who plan to study on a UCM-sponsored Study Abroad program may elect to take the courses completed abroad as pass/fail or letter grade credit, and any degree requirement substitutions will require approval if pass/fail is desired.

8. In most cases, students maintain a full-time course load while participating in Fall or Spring Study Abroad.
9. UCM students are eligible to receive an International Studies Grant of up to \$1000. Additional Foundation scholarships for study abroad are offered through MoCents: ucmo.edu/mocents. Information about these and other scholarship opportunities is available at the Study Abroad office.
10. Students participating in a Study Abroad program, when permitted to withdraw from a course, will not receive any refund from UCM.

In order to participate in the UCM Study Abroad Program, please:

1. Attend a Study Abroad 101 information session to learn about the online application process, specific opportunities, costs, grants and scholarships, course equivalencies, travel, passport and visa information and much more.
2. Research UCM study abroad options online by clicking "MyCGE" at ucmo.edu/cge.
3. Meet with a study abroad advisor to discuss your academic needs, financial considerations and receive passport, visa and health/safety and travel advising.
4. Consult your academic or program advisor.
5. Consult Student Financial Services.
6. Apply to the program of your choice online by clicking "MyCGE" at ucmo.edu/cge.
7. Most programs also require an application at that program's website.
8. Attend a study abroad Pre-Departure Orientation.
9. If applicable, attend a Visa Workshop and learn how to obtain a visa.
10. Purchase airfare, acquire a visa if needed, and pack light!
11. Be sure to maintain academic progress abroad.
12. Lastly, enjoy your study abroad experience!

Programs by College/School

Click on "Go to information" for school policies and other school information.

University of Central Missouri

College of Arts, Humanities, and Social Sciences

The College of Arts, Humanities, and Social Sciences

Martin 126
660-543-4364
Fax 660-543-8006
ucmo.edu/cahss

The College of Arts, Humanities, and Social Sciences is comprised of:

- School of English and Philosophy
- School of Communication, History, and Interdisciplinary Studies
- School of Visual and Performing Arts
- School of Social Sciences and Languages

[Click here for descriptions of all classes taught at the undergraduate level.](#) Course descriptions can also be found online in MyCentral.

School of Communication, History, and Interdisciplinary Studies

Mission Statement

Within the framework of academic freedom, the School of Communication, History and Cross Disciplinary Studies is committed to quality teaching guided by the goals and outcomes approved for every degree program offered within the school. As faculty, we are committed to guiding students toward the achievement of course goals and student outcomes through a strong theoretical approach appropriately applied through practical hands-on experiences. We recognize the link between research, scholarship and creative activities and encourage student collaboration. Our commitment to our students is to teach appropriate skills, but even more so to produce analytical, creative and responsible individuals. We view education as a collaborative effort between teacher and student, as we seek to learn from and inspire one another in the pursuit of life-long learning. Ultimately, it is our desire to prepare our graduates for successful employment in a variety of fields and to empower them to become productive members of society.

Africana Studies Minor (323) (21-22 hours)

Minor for a Bachelor's Degree

Minor Requirements: 21-22 Semester Hours

- CFD 1450 - Valuing Differences: Discovering Common Ground (1)
- HIST 2410 - Introduction to Africana Studies GE (3)

- ENGL 4990 - Special Projects in English (1-3) (3) #
OR
- HIST 4351 - Special Projects in American History (1-6) (3) **
OR
- ISP 4000 - Study Abroad (1-18) (3) *

Africana Studies

Select 12 credit hours from Area 1 or Area 2 and select 2-3 credit hours from the other Area for a total of 14-15 credit hours.

Area 1 - Africana Studies Literary, Geographical, Political and Historical Development

- ENGL 3990 - Special Topics in English (1-3) +
- ENGL 4680 - African American Literature (3)
- GEOG 3310 - Geography of Africa (3)
- HIST 4309 - The African-American in American History (3)
- HIST 4471 - The African Diaspora (3)
- HIST 4472 - African History (3)
- MUS 1281 - History and Development of Jazz GE (3)
- POLS 3551 - Race and Ethnic Politics in the United States (3)
- POLS 4553 - 20th Cent. African-American Politics (3)

Area 2 - Africana Studies Gender, Culture and Social Issues

- SOC 1800 - General Sociology GE (3)

Electives from the Following: 9 Semester Hours

- ML 1040 - Special Projects in Modern Languages GE (1-3) (3) %
- REL 2070 - Religions of Africa (3)
- SOC 1830 - Social Problems GE (3)
- SOC 2845 - Social Inequality (3)
- SOC 3815 - Cities & Urban Life (3)
- SOC 3825 - Race and Ethnic Relations (3)
- WGS 2000 - Intersections: Gender, Race, Class GE (3)

Note:

* 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

Communication Minor (349) (21 hours)

Minor for a Bachelor's Degree (349)

UCM does not confer teacher certification for this minor.

Students majoring in any Communication degree are not eligible to take this minor.

Minor Requirements: 21 Semester Hours

- COMM 2330 - Communication in Small Groups/Teams (3)
 - COMM 3010 - Interpersonal Communication (3)
 - COMM 1000 - Public Speaking GE (3)
- OR**

- COMM 1050 - Fundamentals of Oral Communication Competency GE (3)
- COMM 2100 - Introduction to Communication Theory (3)
OR
- COMM 2320 - Foundations of Rhetorical Theory (3)
OR
- COMM 2380 - Introduction to Organizational Communication (3)
- Electives in COMM (9)

Communication Studies, BS (43-602) (120 hours)

Major, Bachelor of Science Degree

Mission Statement

Communication Studies is committed to preparing graduates to communicate effectively and excel at examining the role of messages in various types of human relationships, organizations, cultures and social institutions. We promote life-long learning by preparing graduates who have developed their ability to think critically, speak and write exceptionally and analyze and interpret messages creatively.

Program Outcomes

The graduate with a Bachelor of Science degree in Communication Studies will use the knowledge and skills obtained in the program to demonstrate all of the following:

- Demonstrate a general knowledge and application of communication theory;
- Demonstrate ability to critique and apply various research methods and/or approaches;
- Demonstrate preparedness for professional life and/or further academic study; and
- Demonstrate a basic knowledge through one of the three areas: 'communication consultancy' or 'social influence' or 'relational' context.

Admission

Students entering the University of Central Missouri to pursue a degree in Communication Studies B.S. or Digital Media Production B.S. should indicate their intentions to become a major of one of these programs at the time of their first enrollment. Each of the programs has degree-specific admission requirements. See information about each of the degrees for those requirements.

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 is an F. The student must receive a grade of C or better in the following courses if required in their major or minor program of study: COMM 1000 , COMM 2100 , and COMM 3100 . A maximum of six semester hours may be counted toward a degree where the student receives a D for communication courses not on the list above. These reflect Communication minimums. Each degree program may have additional graduation requirements.

2. Course substitutions for catalog requirements may be made only upon approval of the program faculty advisor or school chair.
3. Some production or writing courses require participation in activities outside of 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 school colloquia and/or other University presentations. Students should be prepared to participate in these assignments as a part of their degree program.

An option in Speech Communication and Theatre is offered: Secondary Education, BSE (41-695) - Speech Communication and Theatre Option (E362) (123 hours)

Admission Policies

1. See Communication guidelines for admissions policies. In addition;
2. All students must complete COMM 1100 with a 2.0 or above in order to apply to Communication and the Communication Studies program.
3. Students must identify one (or more) areas: either 'communication consultancy' or 'social influence and media' or 'relational'.

Graduation Policies

1. Course substitutions for course requirements may be made only by your faculty advisor or school chair.
2. In order to graduate with a degree in Communication Studies, a student must obtain at least a 2.25 cumulative grade-point average
3. Students must complete the Senior Capstone (COMM 4790) in order to graduate.

Communication Studies Major, B.S. Degree (43-602) 4 Year Guide

Major Requirements: 47 Semester Hours

Core Courses

- COMM 1100 - Introduction to Communication (1)
- COMM 2100 - Introduction to Communication Theory (3)
- COMM 3100 - Communication Research Methods (3)

Required Courses

- COMM 1000 - Public Speaking GE (3)
 - COMM 1500 - Writing Across the Media (3)
 - COMM 2000 - Media Literacy GE (3)
 - COMM 2330 - Communication in Small Groups/Teams (3)
 - COMM 3010 - Interpersonal Communication (3)
 - COMM 3315 - Improving Listening Abilities (3)
 - COMM 4320 - Social Influence (3)
 - COMM 4790 - Senior Capstone (1) ¹⁰

 - COMM 2320 - Foundations of Rhetorical Theory (3)
- OR**

- COMM 2380 - Introduction to Organizational Communication (3)

Choose One of the Following Areas: 15 Semester Hours

Area 1 - Communication Consultancy: 15 Semester Hours

- COMM 3350 - Professional Communication (3)
- COMM 4785 - Internship in Speech Communication (1-6) (3)

- COMM 3327 - Improving Interviewing Skills (3)
OR
- COMM 3730 - Conflict Management (3)

- COMM 1630 - Web Content and Promotion Strategies (3)
OR
- COMM 2410 - Multimedia Production (3)
OR
- MKT 3450 - Digital Marketing (3)

- COMM 4780 - Communication Leadership and Practice in Organization (3)
OR
- COMM 4781 - Strategic Communication Audits (3)
OR
- COMM 4783 - Communication Training (3)

Area 2 - Social Influence and Media: Select 15 Semester Hours

- COMM 3320 - Communication of Social Movements (3)
OR
- COMM 4340 - Rhetorical Analysis and Society (3)

- COMM 4280 - Mass Media and Society (3)
OR
- COMM 4285 - Women and Minorities in Media (3)
OR
- COMM 4390 - Contemporary Communication (3)

Choose 9 hours

- COMM 2340 - Argumentation and Debate (3)
- COMM 2410 - Multimedia Production (3)
- COMM 2700 - Dale Carnegie: Effective Communication and Human Relations (3)
- COMM 3350 - Professional Communication (3)

Area 3 - Relational: Select 15 Semester Hours

- COMM 2700 - Dale Carnegie: Effective Communication and Human Relations (3)

Select 12 Semester Hours

- COMM 3325 - Nonverbal Communication (3)
- COMM 3340 - Intercultural Communication GE (3)
- COMM 3730 - Conflict Management (3)
- COMM 4270 - Family Communication (3)
- COMM 4330 - Theories of Interpersonal Communication (3)
- COMM 4335 - Gender Communication (3)
- COMM 4370 - Special Topics in Communication (1-3)
- SOC 3825 - Race and Ethnic Relations (3) *

Note:

*Student must take SOC 1800 (3) as prerequisite in order to enroll in this course. This course is part of the General Education competency #8.

General Education Requirements: 36 Semester Hours

All students must complete a minimum of 42 credit hours in general education. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major:

- COMM 1000 - Public Speaking GE (3)
- COMM 2000 - Media Literacy GE (3)
- COMM 3000 - Film Appreciation GE (3)

Free Electives: 37 Semester Hours

Minimum Total: 120 Semester Hours

¹⁰Competency 10 course

Corporate Communication Minor (556) (21 hours)

Minor for a Bachelor's Degree (556)

UCM does not confer teacher certification for this minor.

Minor Requirements: 21 Semester Hours

- COMM 2330 - Communication in Small Groups/Teams (3)
- COMM 2380 - Introduction to Organizational Communication (3)
- COMM 3350 - Professional Communication (3)
- COMM 3730 - Conflict Management (3)
- COMM 4780 - Communication Leadership and Practice in Organization (3)

- COMM 4781 - Strategic Communication Audits (3)

OR

- COMM 4783 - Communication Training (3)

Elective from the Following: 3 Semester Hours

- COMM 3315 - Improving Listening Abilities (3)
- COMM 3325 - Nonverbal Communication (3)
- COMM 3327 - Improving Interviewing Skills (3)
- MGT 3325 - Business Communication (3)
- MKT 3450 - Digital Marketing (3)

Digital Media Production Minor (575) (22 hours)

Minor for a Bachelor's Degree

Please see the School of Communication, History, and Interdisciplinary Studies for updates regarding this program.

UCM does not confer teacher certification for this minor.

Minor Requirements: 22 Semester Hours

- COMM 1275 - Introduction to Media Technology (1)
- COMM 1500 - Writing Across the Media (3)
- COMM 1519 - Media Aesthetics (3)
- COMM 2410 - Multimedia Production (3)
- COMM 2411 - Audio Production (3)
- COMM 2412 - Introduction to Digital Video (3)
- Electives including at least 1 upper-level COMM course (6)

Digital Media Production, BS (43-604) (120 hours)

Major, Bachelor of Science Degree

Please see the School of Communication, History, and Interdisciplinary Studies for updates regarding this program.

Mission Statement

The Digital Media Production major is a professional program that prepares graduates to be engaged with the principles of life-long learning in this media-saturated society. The graduate will have the skills to succeed and lead in an ever-changing global media landscape.

Program Outcomes

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

- Successfully convey ideas through the written and spoken word, and through various forms of digital media.
- Synthesize classroom instruction and initiate the exploration, development, and execution of projects that build professional experience.
- Apply knowledge of emerging technology and social media in the creation and distribution of media.
- Apply an in-depth understanding of the ethical principles that guide the student's chosen profession.
- Demonstrate a working knowledge of digital media law to produce content that is legal and promotes the principles of freedom of expression.
- Demonstrate proficiency in the area of Live Studio and Remote Production, Audio, Digital Cinema or Digital Journalism:
- Proficiency in the Live Studio and Remote Production area means the student can successfully complete each step in the production process, from conception through distribution, using both field and studio techniques.
- Proficiency in the Audio production area means the student can manipulate sound to perform and produce audio programming, and apply promotion techniques for audio distribution outlets.
- Proficiency in the Digital Cinema area means the student can work within the parameters of narrative or documentary production process, as well as analyze and critique film.
- Proficiency in the Digital Journalism production area means the student can generate news stories, images, and features for print, broadcast, and Web using appropriate style, design, and editing techniques.

Admission

Students entering the University of Central Missouri to pursue a degree in Communication Studies B.S. or Digital Media Production B.S. should indicate their intentions to become a major of one of these programs at the time of their first enrollment. Each of the programs has degree-specific admission requirements. See information about each of the degrees for those requirements.

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 is an F. The student must receive a grade of C or better in the following courses if required in their major or minor program of study: COMM 1000 , COMM 2100 , and COMM 3100 . A maximum of six semester hours may be counted toward a degree where the student receives a D for communication courses not on the list above. These reflect Communication minimums. Each degree program may have additional graduation requirements.
2. Course substitutions for catalog requirements may be made only upon approval of the program faculty advisor or school chair.
3. Some production or writing courses require participation in activities outside of 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 school colloquia and/or other University presentations. Students should be prepared to participate in these assignments as a part of their degree program.

Admission Policies

1. At the time of first admission to UCM, students should indicate their intentions to become a Digital Media Production major. After the completion of 15 hours, the student must visit the program's success advisor in Martin 124, phone 660-543-4814.
2. The DMP faculty recommends that students meet with their faculty advisor before registering for classes each semester.

Graduation Policies

1. Course substitutions for course requirements may be made only by the faculty advisor and school chair.
2. A student may not graduate with a degree in Digital Media Production in which the grade of record for any required communication course work is an F.

Digital Media Production, BS (43-604) (4 Year Guide)

Major Requirements: 55-58 Semester Hours

- COMM 1100 - Introduction to Communication (1)
- COMM 1275 - Introduction to Media Technology (1)
- COMM 1500 - Writing Across the Media (3)
- COMM 1519 - Media Aesthetics (3)
- COMM 2100 - Introduction to Communication Theory (3)
- COMM 2410 - Multimedia Production (3)
- COMM 2411 - Audio Production (3)
- COMM 2412 - Introduction to Digital Video (3)
- COMM 3100 - Communication Research Methods (3)
- COMM 3120 - Career Readiness for Digital Media Production (1)
- COMM 4235 - Media Promotions (3)
- COMM 4250 - The Law and Digital Media (3)
- COMM 4490 - Senior Capstone Seminar (1) ¹⁰

Select 3 hours of Practicum or Internship: 3 Semester Hours

- COMM 3200 - Digital Media Practicum (1-9) AND/OR
- COMM 3201 - Muleskinner Practicum (1-3) AND/OR
- COMM 3202 - KMOS Practicum (1-3) AND/OR
- COMM 3203 - The Beat Practicum (1-3) AND/OR
- COMM 3204 - CTV Practicum (1-3)
- OR**
- COMM 4295 - Internship (1-6) (3)

Choose One of the Following Areas: 21-24 Semester Hours

Area 1 - Audio*

- COMM 3220 - Performance for the Media (3)
- COMM 4100 - Radio Production (4: 3 lecture, 1 lab)
- COMM 4130 - Audio for Digital Cinema (3)

- MUS 1450 - Audio and Acoustics GE (3)
- MUS 2400 - Sound Reinforcement and Music Production (3)
- MUS 2410 - Digital Audio Production (3)

Choose 6 Hours from the following: 6 Semester Hours

- COMM 2560 - Introduction to Sports Broadcasting (3)
- COMM 4435 - Advanced Multicam Production (3)
- COMM 4565 - Corporate and Freelance Production (3)

Area 2 - Live Studio and Remote Production

- COMM 3220 - Performance for the Media (3)
- COMM 2475 - Multicam Studio Production (3)
- COMM 2560 - Introduction to Sports Broadcasting (3)
- COMM 3450 - Digital Video Editing (3)
- COMM 4435 - Advanced Multicam Production (3)

Choose 6 Hours from the following: 6 Semester Hours

- COMM 3050 - Cinematography (3)
- COMM 4160 - Advanced Sports Broadcasting (3)
- COMM 4565 - Corporate and Freelance Production (3)

Area 3 - Digital Cinema

- COMM 2275 - Screenwriting (3)
- COMM 3050 - Cinematography (3)
- COMM 3400 - History of American Film (3)
- COMM 4120 - Advanced Multimedia Production (3)
- COMM 3450 - Digital Video Editing (3)

Choose 6 Hours from the following: 6 Semester Hours

- COMM 4412 - Narrative Production (3)
- COMM 4550 - Advanced Screenwriting (3)
- COMM 4560 - Documentary Production (3)
- COMM 4565 - Corporate and Freelance Production (3)
- COMM 4570 - History of International Film (3)

Area 4 - Digital Journalism

- COMM 1520 - Introduction to Digital Journalism (3)
- COMM 2520 - Editing and Design (3)
- COMM 3500 - Muleskinner I (3)
- COMM 4500 - History of the American Press (3)

- COMM 4535 - Muleskinner II (3)

Choose 6-7 Hours from the following: 6-7 Semester Hours

- COMM 2475 - Multicam Studio Production (3)
- COMM 2530 - Visual News Production (3)
- COMM 3220 - Performance for the Media (3)
- COMM 3535 - Multimedia Journalism (3)
- COMM 4100 - Radio Production (4: 3 lecture, 1 lab)
- COMM 4245 - Media Economics and Sales (3)
- COMM 4560 - Documentary Production (3)

Area 5 - Sport Reporting and Broadcasting

- COMM 2475 - Multicam Studio Production (3)
- COMM 2540 - Sports Reporting (3)
- COMM 2560 - Introduction to Sports Broadcasting (3)
- COMM 3220 - Performance for the Media (3)
- COMM 4160 - Advanced Sports Broadcasting (3)

Choose 6-7 Hours from the following : 6-7 Semester Hours

- COMM 3450 - Digital Video Editing (3)
- COMM 3535 - Multimedia Journalism (3)
- COMM 4100 - Radio Production (4: 3 lecture, 1 lab)
- COMM 4435 - Advanced Multicam Production (3)
- COMM 4560 - Documentary Production (3)
- MKT 4454 - Sports Marketing (3)

General Education Requirements: 42 Semester Hours

All students must complete a minimum of 42 credit hours in general education. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major:

- COMM 1000 - Public Speaking GE (3)
- COMM 1200 - Introduction to Mass Communication GE (3) (for Audio and LS&RP only)
- COMM 2000 - Media Literacy GE (3)
- COMM 3000 - Film Appreciation GE (3)

Free Electives: 20-23 Semester Hours

Minimum Total: 120 Semester Hours

¹⁰Competency 10 course

History Minor (422) (20 hours)

Minor for a Bachelor's Degree

UCM does not confer teacher certification for this minor.

Minor Requirements: 20 Semester Hours

- HIST 1350 - History of the United States to 1877 GE (3)
- HIST 1351 - History of the United States from 1877 GE (3)
- HIST 1400 - History of the Early World GE (3)
- HIST 1401 - History of the Early Modern World GE (3)
- HIST 1402 - History of the Modern World GE (3)
- Upper-level (3000/4000) electives in history (5)

History, BA (42-420) (120 hours)

Major, Bachelor of Arts Degree

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

- Integrate historical chronology and content knowledge with critical analysis of historical documents, interpretations, and patterns.
- Produce an analytical research paper or research project based upon original research in primary and secondary sources.
- Evaluate the application of historical knowledge in current contexts, including ways to integrate historical knowledge with other fields of study.

History Major, B.A. Degree (42-420) 4 Year Guide

Major Requirements: 39 Semester Hours

- HIST 1350 - History of the United States to 1877 GE (3)
- HIST 1351 - History of the United States from 1877 GE (3)
- HIST 1400 - History of the Early World GE (3)
- HIST 1401 - History of the Early Modern World GE (3)
- HIST 1402 - History of the Modern World GE (3)
- HIST 3010 - The Historian's Craft (3)
- HIST 4500 - Senior Capstone in History (3) ¹⁰
- Upper-level (3000/4000) electives in American history (6)
- Upper-level (3000/4000) 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 (3000/4000) elective in history (3)

General Education Requirement: 33 Semester Hours

All students must complete a minimum of 42 credit hours in general education. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major although only 6 hours of the HIST courses will count as general education:

- HIST 1350 - History of the United States to 1877 GE (3)
- HIST 1351 - History of the United States from 1877 GE (3)
- HIST 1400 - History of the Early World GE (3)
- HIST 1401 - History of the Early Modern World GE (3)
- HIST 1402 - History of the Modern World GE (3)
- Modern Language GE (3)

Modern Language Requirement: 12 Semester Hours

Must be fulfilled in a single language.

Free Electives: 36 Semester Hours

Minimal Total: 120 Semester Hours

¹⁰Competency 10 course

History, BS (43-421) (120 hours)

Major, Bachelor of Science Degree

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

- Integrate historical chronology and content knowledge with critical analysis of historical documents, interpretations, and patterns.
- Produce an analytical research paper or research project based upon original research in primary and secondary sources.
- Evaluate the application of historical knowledge in current contexts, including ways to integrate historical knowledge with other fields of study.

History Major, B.S. Degree - 120 hours 4 Year Guide

Major Requirements: 39 Semester Hours

- HIST 1350 - History of the United States to 1877 GE (3)
- HIST 1351 - History of the United States from 1877 GE (3)
- HIST 1400 - History of the Early World GE (3)
- HIST 1401 - History of the Early Modern World GE (3)
- HIST 1402 - History of the Modern World GE (3)
- HIST 3010 - The Historian's Craft (3)
- HIST 4500 - Senior Capstone in History (3) ¹⁰
- Upper-level (3000/4000) electives in American history (6)
- Upper-level (3000/4000) 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 (3000/4000) elective in history (3)

General Education Requirement: 36 Semester Hours

All students must complete a minimum of 42 credit hours in general education. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major although only 6 hours of the HIST courses will count as general education:

- HIST 1350 - History of the United States to 1877 GE (3)
- HIST 1351 - History of the United States from 1877 GE (3)
- HIST 1400 - History of the Early World GE (3)
- HIST 1401 - History of the Early Modern World GE (3)
- HIST 1402 - History of the Modern World GE (3)

Free Electives: 45 Semester Hours

From your elective hours, you may choose 9-12 hours from one of the following areas:

Area 1 - Business (take 9 hours)

(which is 9 hours toward the Business Administration minor)

- ECON 1010 - Principles of Macroeconomics GE (3)
- MGT 3315 - Management of Organizations (3)
- MKT 3405 - Principles of Marketing (3)

Area 2 - GIS (take 9 hours)

(which is 9 hours toward the Geographic Info. Systems minor)

- GEOS 2281 - Map Interpretation (2)
- GEOS 2300 - Acquiring and Managing Spatial Information GE (2)
- GEOS 4201 - Cartography (3)
- GEOS 4220 - Geographic Information Systems I (3)

Area 3 - Web Management (take 9 hours)

- GRAP 1610 - Principles of Web Media (3)
- GRAP 2620 - Web Media Applications (3)
- GRAP 2630 - Web Authoring (3)

Area 4 - Law (take 9 hours)

(which is 9 hours toward the minor in Legal Studies)

- PHIL 1410 - Critical Thinking GE (3)

- PHIL 1400 - Deductive Logic (3)
- PHIL 2300 - Ethics GE (3)
- POLS 2580 - Public Law and the Judicial Process (3)
- POLS 4580 - American Constitutional Law (3)

Area 5 - Africana Studies (take 9 hours)

(which is 9 hours toward the minor in Africana Studies)

- HIST 2410 - Introduction to Africana Studies GE (3)
- SOC 1830 - Social Problems GE (3)
- HIST 4309 - The African-American in American History (3)
- WGS 2000 - Intersections: Gender, Race, Class GE (3)

Area 6 - Digital Media Production (take 10 hours)

(which is 10 hours toward the minor in Digital Media Production. COMM 1275, COMM 1500 and COMM 1519 are prerequisites for the other COMM courses.)

- COMM 1275 - Introduction to Media Technology (1)
- COMM 1500 - Writing Across the Media (3)
- COMM 1519 - Media Aesthetics (3)
- COMM 2410 - Multimedia Production (3)
- COMM 2412 - Introduction to Digital Video (3)

Area 7 - Criminal Justice (take 9 hours)

(which is 9 hours toward the minor in Criminal Justice. CJ 1000 is a prerequisite for the other CJ courses.)

- CJ 1000 - Introduction to Criminal Justice GE (3)
- CJ 2300 - Criminal Law and Procedure (3)
- CJ 3006 - Corrections (3)
- CJ 3010 - Policing a Democratic Society (3)

Area 8 - Safety Sciences (take 10 hours)

(which is 9 hours toward the minor in Safety Sciences)

- SAFE 1000 - Exploring the Safety Sciences (1)
- SAFE 2900 - Applied Sciences for Professional Studies (3)
- SAFE 3000 - Principles of Accident Causation and Prevention (3)
- SAFE 4425 - Safety and Health Legislation and Standards (3)
- SAFE 4435 - Environmental Compliance (3)

Area 9 - Instructional Design (take 12 hours)

- GRAP 1610 - Principles of Web Media (3)

- GRAP 2620 - Web Media Applications (3)
- INST 4100 - Integrating Technology into Teaching (3)
- INST 4400 - Design and Production of Media for Instruction (3)

Area 10 - Build Your Own Area (take 9-12 hours)

Choose 9-12 hours with the same prefix or a mix of related courses with the approval of program coordinator and school chair. *Not available for ANTH courses.*

Minimum Total: 120 Semester Hours

¹⁰Competency 10 course

Religious Studies Minor (839) (21 hours)

Minor for a Bachelor's Degree

UCM does not confer teacher certification for this minor.

The study of religion is interdisciplinary and even multidisciplinary in its methodologies, and our courses and instructors reflect this reality. Our courses do not advocate for or against any particular religious group or tradition, and individual courses are designed to meet four primary goals.

- Students will recognize and apply the practices and vocabulary of the academic study of religion, and be able to distinguish that study from a theological approach to the subject.
- Students will understand and objectively represent points of view and beliefs foreign to their own experiences and practices.
- Students will integrate the study of religion into other fields of study, making the professional and social value of such study as a complement to other minors and majors clear.
- Students will complete assignments demonstrating skills in analytical writing and research.

Minor Requirements: 21 Semester Hours

- REL 1510 - Introduction to World Religions GE (3)

One Course on Abrahamic Religions: 3 Semester Hours

- REL 2010 - Origins of Judaism: Patriarchs, Prophets, and Kings (3)
- REL 2015 - Global Judaisms (3)
- REL 2020 - Jesus and the New Testament (3)
- REL 2025 - Christians in the Modern World (3)
- REL 3055 - Islam Now & Then (3)

One Course on Non-Abrahamic Religions: 3 Semester Hours

- REL 2040 - Hinduism (3)
- REL 2050 - Buddhism (3)

- REL 2060 - Native American Religions (3)
- REL 2070 - Religions of Africa (3)

One Comparative Thematic Course: 3 Semester Hours

- REL 3010 - Religion and Poverty (3)
- REL 3030 - Religion, Magic, and the Supernatural (3)
- REL 4020 - Religion, Gender, and Sexuality (3)
- REL 4040 - Religion and Medicine (3)

Nine Hours of electives, at least three hours at the 3000 or 4000 Level: 9 Semester Hours

Electives may be drawn from the courses listed above, all other REL courses, all courses cross-listed with REL, and the following courses

- HIST 4412 - Wars of Reformation and Religion (3)
- HIST 4422 - Religion, War, and Death in Early Modern Britain (3)
- HIST 4432 - Nazi Germany and the Holocaust (3)
- HIST 4481 - Traditional Middle East (3)
- HIST 4491 - Special Projects in World History (1-6) (3)
- PHIL 4710 - Philosophy of Religion (3)
- SOC 4885 - Religion, Faith & Disbelief (3)

Note:

Study abroad credits will be evaluated on an individual basis; no more than six credits may be transferred in from study abroad or other coursework.

Sport Communication Minor (883) (19 hours)

Minor for a Bachelor's Degree

UCM does not confer teacher certification for this minor.

Minor Requirements: 19 Semester Hours

- COMM 1275 - Introduction to Media Technology (1)
- COMM 1500 - Writing Across the Media (3)
- COMM 2560 - Introduction to Sports Broadcasting (3)
- COMM 4160 - Advanced Sports Broadcasting (3)

- COMM 2540 - Sports Reporting (3)
- OR**
- SM 3210 - Sport and Media (3)

- MKT 4454 - Sports Marketing (3)

OR

- SM 4200 - Applied Sport Marketing (3)
 - PE 4845 - Psychological and Social Aspects of Physical Education (3)
- OR**
- SOC 3840 - Sociology of Sport (3)

Strategic Communication for Leaders Certificate (10-566) (12 hours)

Certificate

Required Courses: 12 Semester Hours

- COMM 2700 - Dale Carnegie: Effective Communication and Human Relations (3)
- COMM 4700 - Dale Carnegie: High Impact Presentations (1)
- COMM 4780 - Communication Leadership and Practice in Organization (3)
- COMM 4781 - Strategic Communication Audits (3)
- MGT 3300 - Dale Carnegie Leadership Training for Managers (2)

Web Media Certificate (10-639) (15 hours)

Foundation Skills Areas: 9 Semester Hours

- ART 1620 - Web Graphics GE (3) (Summer Online)
 - COMM 1630 - Web Content and Promotion Strategies (3)
 - ART 1610 - Web Languages GE (3) (Summer Online)
- OR**
- GRAP 1610 - Principles of Web Media (3)

Knowledge Emphasis: 6 Semester Hours

Choose from a menu of courses hosted by:

Art & Design, Communications, and The School of Technology, Graphic Arts program.

- ART 4610 - Interactive Design (3)
- COMM 4120 - Advanced Multimedia Production (3)
- COMM 2410 - Multimedia Production (3)
- GRAP 2620 - Web Media Applications (3)
- GRAP 2630 - Web Authoring (3)

Women, Gender & Sexuality Studies Minor (885) (18 hours)

Minor for a Bachelor's Degree

UCM does not confer teacher certification for this minor.

A student with a minor in Women, Gender and Sexuality Studies will be able to:

- Describe differing assumptions about gender and sexuality and the effect on the individual and society.
- Assess gender and sexuality issues from an interdisciplinary perspective.
- Apply understandings of gender and sexuality to the major field of study.
- Utilize knowledge of gender and sexuality to participate in civic and community decision-making.

Minor Requirements: 18 Semester Hours

- WGS 4850 - Feminist and Queer Theories (3)

Select 2 of the Following 3: 6 Semester Hours

- WGS 1050 - Women's Voices GE (3)
- WGS 2000 - Intersections: Gender, Race, Class GE (3)
- WGS 2050 - Sexuality, Identity & Social Action GE (3)

Electives: 9 Semester Hours

Choose any nine (9) credits from the list below. Some courses may have prerequisites; click on the course number for additional requirements.

- ANTH 4820 - Anthropology of Gender (3)
- CFD 1450 - Valuing Differences: Discovering Common Ground (1)
- CFD 4220 - Sexuality Across the Lifespan (3)
- CFD 4850 - Family Policy and Advocacy (3)
- CJ 4403 - Sexual Assault and the Criminal Justice System (3)
- CJ 4920 - Women and Crime (3)
- COMM 4270 - Family Communication (3)
- COMM 4285 - Women and Minorities in Media (3)
- COMM 4335 - Gender Communication (3)
- ENGL 2270 - Fiction by Women Around the World (3)
- ENGL 4560 - British Women Writers (3)
- ENGL 4660 - Women Writers of the United States (3)
- ENGL 4750 - Postcolonial Literature (3)
- HIST 4310 - Women in America (3)
- HIST 4327 - African American Women, Gender, and Girlhood (3)
- HLTH 4320 - Teaching Sexuality Education in the School (3)
- NUR 2020 - Health: The Women's Perspective (2)
- NUR 4030 - Human Sexuality (2)
- POLS 3553 - Women and Politics (3)
- POLS 4581 - Civil Rights and Liberties (3)
- PSY 4140 - Psychology of Human Sexuality (3)
- PSY 4320 - Psychology of Women (3)
- REL 4020 - Religion, Gender, and Sexuality (3)

- SOC 3895 - Outsiders and Outcasts (3)
- SOC 4855 - Family Diversity (3)
- SOC 4870 - Gender, Sexuality, & Inequality (3)
- SOC 4881 - Gender and Society (3)
- WGS 4000 - Internship (3)
- WGS 4810 - Special Projects in Women, Gender & Sexuality (1-6) (1-3)

School of English and Philosophy

<https://www.ucmo.edu/engphil/>

The School of English and Philosophy
 Martin 336
 660-543-4425
ucmo.edu/engphil

An option in English is offered: Secondary Education, BSE (41-695) - English Option (E311) (120 hours)

Creative Writing Minor (490) (21 hours)

Minor for a Bachelor's Degree

UCM does not confer teacher certification for this minor.

Minor Requirements: 21 Semester Hours

Elective from the Following: 3 Semester Hours

- ENGL 2050 - Creative Writing (3)
- ENGL 2054 - Introduction to Fiction Writing (3)

Elective from the Following: 3 Semester Hours

- ENGL 2050 - Creative Writing (3)
- ENGL 2051 - The Writer's Voice: Introduction to Poetry Writing (3)
- ENGL 2052 - Performing the Word: Introduction to Lyrical Writing (3)
- ENGL 2053 - Writing Short: Introduction to Prose Poetry, Flash Fiction, and Lyric Essays (3)

Elective from the Following: 3 Semester Hours

- ENGL 3051 - The Art of Poetry: Intermediate Poetry Workshop (3)
- ENGL 3052 - Intermediate Fiction Writing (3)

Elective from the Following: 3 Semester Hours

- ENGL 4051 - Writing Poetry for Publication (3)
- ENGL 4052 - Writing Fiction for Publication (3)
- ENGL 4053 - Writing Non-fiction for Publication (3)
- ENGL 4054 - Practicum in Editing and Publishing (3)
- ENGL 4056 - Special Topics in Creative Writing (3)

Elective from the Following: 9 Semester Hours

- English (must be at 3000 or 4000 level) (3-9)
- COMM 2275 - Screenwriting (3)
- ENGL 4055 - Writing Genre Fiction (3)
- THEA 4800 - Playwriting (1-3)

English Minor (2009) (24 hours)

Minor for a Bachelor's Degree

Except for a Bachelor of Science in Education Degree.

Minor Requirements: 24 Semester Hours

- ENGL 2010 - Introduction to Reading Poetry and Drama GE (3)
- ENGL 2020 - Introduction to Reading Fiction GE (3)
- ENGL 4360 - Shakespeare (3)

Select One Course from Each of the Following Areas: 15 Semester Hours

Area 1

- ENGL 4310 - Chaucer (3)
- ENGL 4330 - Renaissance English Writers (3)
- ENGL 4340 - Old and Middle English Literature (3)
- ENGL 4390 - Special Topics in Medieval & Renaissance Literature (3)

Area 2

- ENGL 4450 - The Age of Milton (3)
- ENGL 4460 - Wits and Satirists: 1660-1800 (3)
- ENGL 4490 - Special Topics in 17th and 18th Century Literature (3)
- ENGL 4620 - Early American Literature (3)

Area 3

- ENGL 4500 - Nineteenth Century English Novel (3)
- ENGL 4510 - Romantic Poets and Essayists (3)
- ENGL 4540 - Victorian Poetry (3)

- ENGL 4590 - Special Topics in 19th Century Literature (3)
- ENGL 4610 - American Renaissance (3)
- ENGL 4640 - American Realists and Naturalists (3)

Area 4

- ENGL 4700 - British Fiction 1890 to Present (3)
- ENGL 4710 - Modern American Fiction (3)
- ENGL 4720 - Modern British Poetry (3)
- ENGL 4730 - Modern American Poetry (3)
- ENGL 4740 - Modern Drama (3)
- ENGL 4790 - Special Topics in 20th and 21st Century Literature (3)

Area 5

- ENGL 4560 - British Women Writers (3)
- ENGL 4660 - Women Writers of the United States (3)
- ENGL 4670 - Ethnic American Literature (3)
- ENGL 4680 - African American Literature (3)
- ENGL 4690 - Special Topics in Traditionally Underrepresented Literature (3)
- ENGL 4750 - Postcolonial Literature (3)

English Minor (BSE) (305) (24 hours)

Minor, Bachelor of Science in Education Degree

Minor Requirements: 24 Semester Hours

- ENGL 2010 - Introduction to Reading Poetry and Drama GE (3)
- ENGL 2020 - Introduction to Reading Fiction GE (3)
- ENGL 3110 - English Grammar (3)
- ENGL 4840 - Composition and Evaluation (3)

Elective from the Following: 3 Semester Hours

- ENGL 4670 - Ethnic American Literature (3)
- ENGL 4680 - African American Literature (3)

Select 1 Course from 3 of the Following 4 Areas: 9 Semester Hours

Area 1

- ENGL 4310 - Chaucer (3)
- ENGL 4330 - Renaissance English Writers (3)
- ENGL 4340 - Old and Middle English Literature (3)

- ENGL 4390 - Special Topics in Medieval & Renaissance Literature (3)

Area 2

- ENGL 4450 - The Age of Milton (3)
- ENGL 4460 - Wits and Satirists: 1660-1800 (3)
- ENGL 4490 - Special Topics in 17th and 18th Century Literature (3)
- ENGL 4620 - Early American Literature (3)

Area 3

- ENGL 4500 - Nineteenth Century English Novel (3)
- ENGL 4510 - Romantic Poets and Essayists (3)
- ENGL 4540 - Victorian Poetry (3)
- ENGL 4590 - Special Topics in 19th Century Literature (3)
- ENGL 4610 - American Renaissance (3)
- ENGL 4640 - American Realists and Naturalists (3)

Area 4

- ENGL 4700 - British Fiction 1890 to Present (3)
- ENGL 4710 - Modern American Fiction (3)
- ENGL 4720 - Modern British Poetry (3)
- ENGL 4730 - Modern American Poetry (3)
- ENGL 4740 - Modern Drama (3)
- ENGL 4790 - Special Topics in 20th and 21st Century Literature (3)

English, BA (42-303) (120 hours)

Major, Bachelor of Arts Degree

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

- Use the methods and techniques of literary study to develop the skills of close reading and literary analysis.
- Write with clarity, originality, grammatical correctness, proper usage, and logic (demonstrating rhetorical skills necessary for successful communication).
- Accomplish primary and secondary research, incorporating the results into formal written presentations with an understanding of appropriate critical approaches.
- Understand the relationship between works of literature and the historical/cultural contexts in which they were written.
- Demonstrate a knowledge of literary periods, approaches, genres, and major works.

English, BA (42-303) (4 Year Guide)

Major Requirements: 39 Semester Hours

- ENGL 2010 - Introduction to Reading Poetry and Drama GE (3)
- ENGL 2020 - Introduction to Reading Fiction GE (3)
- ENGL 3240 - Critical Approaches to Literature (3)

Select Literature Track or Creative Writing Track: 30 Semester Hours

Literature Track: 30 Semester Hours

- ENGL 4240 - Senior Capstone in Literature (3) ¹⁰
- ENGL 4360 - Shakespeare (3)
- Upper-level (3000/4000) electives in ENGL (6)
- Electives in ENGL (2000/3000/4000) (3)

Select One Course from Each of the Five Following Areas: 15 Semester Hours

Area 1

- ENGL 4310 - Chaucer (3)
- ENGL 4330 - Renaissance English Writers (3)
- ENGL 4340 - Old and Middle English Literature (3)
- ENGL 4390 - Special Topics in Medieval & Renaissance Literature (3)

Area 2

- ENGL 4450 - The Age of Milton (3)
- ENGL 4460 - Wits and Satirists: 1660-1800 (3)
- ENGL 4490 - Special Topics in 17th and 18th Century Literature (3)
- ENGL 4620 - Early American Literature (3)

Area 3

- ENGL 4500 - Nineteenth Century English Novel (3)
- ENGL 4510 - Romantic Poets and Essayists (3)
- ENGL 4540 - Victorian Poetry (3)
- ENGL 4590 - Special Topics in 19th Century Literature (3)
- ENGL 4610 - American Renaissance (3)
- ENGL 4640 - American Realists and Naturalists (3)

Area 4

- ENGL 4700 - British Fiction 1890 to Present (3)
- ENGL 4710 - Modern American Fiction (3)
- ENGL 4720 - Modern British Poetry (3)
- ENGL 4730 - Modern American Poetry (3)

- ENGL 4740 - Modern Drama (3)
- ENGL 4790 - Special Topics in 20th and 21st Century Literature (3)

Area 5

- ENGL 4560 - British Women Writers (3)
- ENGL 4660 - Women Writers of the United States (3)
- ENGL 4670 - Ethnic American Literature (3)
- ENGL 4680 - African American Literature (3)
- ENGL 4690 - Special Topics in Traditionally Underrepresented Literature (3)
- ENGL 4750 - Postcolonial Literature (3)

Creative Writing Track: 30 Semester Hours

Select one group of Creative Writing Introductory Courses: 9 Semester Hours

Introductory Courses Option 1

- ENGL 4054 - Practicum in Editing and Publishing (3) ¹⁰
- ENGL 2050 - Creative Writing (3)
- One Upper-Division Creative Writing Elective (3)

Introductory Courses Option 2

- ENGL 2054 - Introduction to Fiction Writing (3)
- ENGL 4054 - Practicum in Editing and Publishing (3) ¹⁰
- ENGL 2051 - The Writer's Voice: Introduction to Poetry Writing (3)
OR
- ENGL 2052 - Performing the Word: Introduction to Lyrical Writing (3)
OR
- ENGL 2053 - Writing Short: Introduction to Prose Poetry, Flash Fiction, and Lyric Essays (3)

Select either Poetry or Fiction Emphasis Area: 6 Semester Hours

From this area, students must choose to take the required courses associated with Emphasis A or Emphasis B.

Emphasis A (Poetry)

- ENGL 3051 - The Art of Poetry: Intermediate Poetry Workshop (3)
- ENGL 4051 - Writing Poetry for Publication (3)

Emphasis B (Fiction)

- ENGL 3052 - Intermediate Fiction Writing (3)
- ENGL 4052 - Writing Fiction for Publication (3)

Select One Course from Each of the Five Following Areas: 15 Semester Hours

Area 1

- ENGL 4310 - Chaucer (3)
- ENGL 4330 - Renaissance English Writers (3)
- ENGL 4340 - Old and Middle English Literature (3)
- ENGL 4360 - Shakespeare (3)
- ENGL 4390 - Special Topics in Medieval & Renaissance Literature (3)

Area 2

- ENGL 4450 - The Age of Milton (3)
- ENGL 4460 - Wits and Satirists: 1660-1800 (3)
- ENGL 4490 - Special Topics in 17th and 18th Century Literature (3)
- ENGL 4620 - Early American Literature (3)

Area 3

- ENGL 4500 - Nineteenth Century English Novel (3)
- ENGL 4510 - Romantic Poets and Essayists (3)
- ENGL 4540 - Victorian Poetry (3)
- ENGL 4590 - Special Topics in 19th Century Literature (3)
- ENGL 4610 - American Renaissance (3)
- ENGL 4640 - American Realists and Naturalists (3)

Area 4

- ENGL 4700 - British Fiction 1890 to Present (3)
- ENGL 4710 - Modern American Fiction (3)
- ENGL 4720 - Modern British Poetry (3)
- ENGL 4730 - Modern American Poetry (3)
- ENGL 4740 - Modern Drama (3)
- ENGL 4790 - Special Topics in 20th and 21st Century Literature (3)

Area 5

- ENGL 4560 - British Women Writers (3)
- ENGL 4660 - Women Writers of the United States (3)
- ENGL 4670 - Ethnic American Literature (3)
- ENGL 4680 - African American Literature (3)
- ENGL 4690 - Special Topics in Traditionally Underrepresented Literature (3)
- ENGL 4750 - Postcolonial Literature (3)

Minor Requirements: 15-35 Semester Hours

A minor is required for this major. Students completing the Literature Track are ineligible to receive an English Minor. Students completing the Creative Writing Track are ineligible to receive a Creative Writing Minor.

General Education Requirement: 36 Semester Hours

All students must complete a minimum of 42 credit hours in general education. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major:

- ENGL 2010 - Introduction to Reading Poetry and Drama GE (3)
- ENGL 2020 - Introduction to Reading Fiction GE (3)

Modern Language Requirement: 9 Semester Hours

Refer to Bachelor's Degree Requirements section for fulfillment options.

Free Electives: 1-21 Semester Hours

Minimum Total: 120 Semester Hours

¹⁰Competency 10 course

Philosophy Minor (317) (21 hours)

Minor for a Bachelor's Degree

UCM does not confer teacher certification for this minor.

Minor Requirements: 21 Semester Hours

- PHIL 1000 - Introduction to Philosophy GE (3)
- PHIL 1400 - Deductive Logic (3)
- PHIL 2300 - Ethics GE (3)
- Electives in philosophy (12)

Professional and Technical Writing Certificate (10-664)

Required Courses: 12 Semester Hours

- CTE 3060 - Technical Writing GE (3)
- ENGL 3110 - English Grammar (3)
- ENGL 4061 - Advanced Technical Writing (3)
- ENGL 4062 - Senior Capstone: Professional Ethics and Service Learning in Technical Writing (3)

Technical Writing Minor (631) (21 hours)

Minor for a Bachelor's Degree

UCM does not confer teacher certification for this minor.

Minor Requirements: 21 Semester Hours

- CTE 3060 - Technical Writing GE (3)
- ENGL 3110 - English Grammar (3)
- ENGL 4061 - Advanced Technical Writing (3)
- ENGL 4062 - Senior Capstone: Professional Ethics and Service Learning in Technical Writing (3)

Electives from the Following: 9 Semester Hours

- ART 1610 - Web Languages GE (3)
- ART 1620 - Web Graphics GE (3)
- COMM 2410 - Multimedia Production (3) *
- ENGL 3040 - Advanced Rhetoric (3)
- GRAP 1010 - Digital PreMedia Fundamentals (3)
- GRAP 1610 - Principles of Web Media (3)

School of Social Sciences and Languages

School of Social Sciences and Languages

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 better, 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 2301 or SPAN 2601 or a higher level class and completes the class with a grade of C or better, 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 School of Social Sciences and Languages.

Anthropology Minor (424) (21 hours)

Minor for a Bachelor's Degree

UCM does not confer teacher certification for this minor.

The graduate with a Bachelor's degree that includes a Minor in Anthropology will use the knowledge and skills obtained in the minor program to:

- Students master an understanding of how and why human beings evolve and adapt both biologically and culturally.
- Students master an understanding of current cultural diversity in the world and the impact of globalization on contemporary non-western populations.
- Students incorporate and apply their knowledge of anthropological methods, theories, and practices in an integrative experience (study abroad, internship, fieldwork or directed research).
- Students develop skills relevant to the profession of anthropology through the preparation of research designs, abstracts, grant proposals, case study analyses, oral presentations, posters and essays.

Minor Requirements: 21 Semester Hours

*Must include at least one upper-level (3000/4000) course to meet graduation requirements.

- ANTH 1810 - Human Prehistory GE (3)
- ANTH 1820 - Cultural Anthropology GE (3)
- ANTH 2820 - Anthropology of Food GE (3)
- Electives in ANTH (12) *

Anthropology, BS (43-635) (120 hours)

Major, Bachelor of Science Degree

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

- Master an understanding of how and why human beings evolve and adapt both biologically and culturally.
- Master an understanding of current cultural diversity in the world and the impact of globalization on contemporary non-western populations.
- Incorporate and apply their knowledge of anthropological methods, theories, and practices in an integrative experience (study abroad, internship, fieldwork or directed research).
- Develop skills relevant to the profession of anthropology through the preparation of research designs, abstracts, grant proposals, case study analyses, oral presentations, posters and essays.

Anthropology, BS (43-635) (4 Year Guide)

Major Requirements: 42 Semester Hours

- ANTH 1810 - Human Prehistory GE (3)
- ANTH 1820 - Cultural Anthropology GE (3)
- ANTH 2820 - Anthropology of Food GE (3)
- ANTH 2830 - Hoax and Myth in Anthropology (3)
- ANTH 3810 - Applied Anthropology (3)
- ANTH 3830 - Anthropological Linguistics (3)
- ANTH 4890 - Anthropology Senior Seminar (3) ¹⁰
- Anthropology electives (18)

Anthropological Field Experience:

- ANTH 4830 - Archaeological Field Research (3)

- OR
- ANTH 4835 - Anthropological Study Tour (3)
- OR
- ANTH 4885 - Practicum (1-6) (3)

General Education Requirements: 33 Semester Hours

All students must complete a minimum of 42 credits hours in general education. See The General Education Program Requirements for full listing of requirements. Some General Education courses included in the major are used to satisfy General Education requirements, but additional courses within the same General Education categories are not. Besides those listed above, the following General Education classes are required in this program:

- ANTH 1810 - Human Prehistory GE (3)
- ANTH 1820 - Cultural Anthropology GE (3)
- ANTH 2820 - Anthropology of Food GE (3)

Free Electives: 45 Semester Hours

Minimum Total: 120 Semester Hours

¹⁰Competency 10 course

Global Security Studies Minor (641)

Minor for a Bachelor's Degree

UCM does not confer teacher certification for this minor

Minor Requirements: 20-21 Semester Hours

- POLS 3527 - Security in the 21st Century (3)
- POLS 3531 - Five Wars of Globalization (3)
- IS 1000 - Introduction to International Studies GE (3)
- OR
- POLS 2530 - World Politics GE (3)

Electives from the Following: 11-12 Semester Hours

Two rules apply when choosing electives:

1. no more than 6 hours from any one discipline
 2. at least 6 hours must be upper-level
- CJ 4444 - Terrorism (3)
 - CJ 4488 - Homeland Security (3) *
 - CYBR 1800 - Introduction to Cybersecurity GE (3)
 - GEOS 4220 - Geographic Information Systems I (3)

- GEOS 4221 - Geographic Information Systems II (3)
- GEOS 4280 - Natural Disasters (3)
- HIST 4483 - Third World Revolutions (3)
- HIST 4432 - Nazi Germany and the Holocaust (3)
- HIST 4416 - Europe in Crisis: 1900-Present (3)
- MS 1110 - Introduction to the Army and Critical Thinking (2)
- MS 2500 - History of the US Army (3)
- POLS 3526 - Oil, Water, and Security (3)
- POLS 3530 - International Organizations (3)
- POLS 4530 - International Law (3)
- POLS 4531 - American Foreign Policy (3)
- POLS 4533 - The Israeli-Palestinian Conflict (3)

Note:

*This course has a prerequisite not listed in the program; see specific class listing in the catalog for additional requirements.

International Studies Minor (489) (24 hours)

Minor for a Bachelor's Degree

UCM does not confer teacher certification for this minor.

Minor Requirements: 24 Semester Hours

- One modern (foreign) language (6)
- IS 1000 - Introduction to International Studies GE (3)

***Elective from the Following: 3 Semester Hours**

*Must include at least one upper-level (3000/4000) course to meet graduation requirements.

- ANTH 4870 - Ethnographic Methods (3)
- GEOG 2212 - World Geography GE (3)
- POLS 2520 - Comparative Government and Politics (3)
- POLS 2530 - World Politics GE (3)
- REL 3010 - Religion and Poverty (3)
- SOC 3885 - Globalization and the Future (3)

***Electives from One Content Specialization: 6 Semester Hours**

*Must include at least one upper-level (3000/4000) course to meet graduation requirements.

***Electives from One Geographic Specialization: 6 Semester Hours**

*Must include at least one upper-level (3000/4000) course to meet graduation requirements.

(ISP 4000 - Study Abroad (1-18) may fulfill 1-12 hours of Content and Geographic electives)

Content Specializations

Content 1 The Global Society & Culture

- ANTH 3850 - Globalization and Culture (3)
- ART 4850 - Twentieth Century Art and Architecture (3)
- CJ 3020 - Comparative Justice Systems (3)
- ENGL 2270 - Fiction by Women Around the World (3)
- GEOG 4270 - World Political Geography (3)
- GISL 4244 - Cross-Cultural Cinema (3)
- HIST 1402 - History of the Modern World GE (3)
- PHIL 3130 - History of Philosophy II: Enlightenment Thought (3)
- POLS 3541 - Contemporary Political Theory (3)
- POLS 3553 - Women and Politics (3)
- REL 2310 - Religious Issues Today GE (3)
- REL 4020 - Religion, Gender, and Sexuality (3)
- SOC 2810 - Culture and Society (3)
- SOC 4850 - Money, Work & Social Life (3)

Content 2 International Relations, Peace & Justice

- CJ 2405 - International Policing (3)
- POLS 3598 - International Human Rights (3)
- CJ 4444 - Terrorism (3)
- GEOG 4270 - World Political Geography (3)
- HIST 4325 - History of American Diplomacy (3)
- HIST 4416 - Europe in Crisis: 1900-Present (3)
- HIST 4418 - War and Modern Society (3)
- HIST 4432 - Nazi Germany and the Holocaust (3)
- POLS 3526 - Oil, Water, and Security (3)
- POLS 3530 - International Organizations (3)
- POLS 4530 - International Law (3)
- POLS 4531 - American Foreign Policy (3)
- POLS 4532 - International Relations of Asia (3)
- POLS 4533 - The Israeli-Palestinian Conflict (3)

Content 3 International Political Economy & Policy Studies

- AGRI 2130 - Global Agriculture GE (3)
- ECON 1011 - Principles of Microeconomics GE (3)
- ECON 4050 - Comparative Economic Systems (3)
- GEOG 4270 - World Political Geography (3)
- INDM 4010 - Current Issues in Industry (3)
- POLS 3530 - International Organizations (3)
- POLS 4511 - Public Policy (3)

- POLS 4520 - Principles of International Development (3)
- POLS 4531 - American Foreign Policy (3)
- SOC 2845 - Social Inequality (3)

Content 4 Human Development & the Physical Environment

- GEOS 3010 - Environmental Geology (3)
- ECON 4050 - Comparative Economic Systems (3)
- GEOG 4265 - Urban Geography (3)
- GEOG 4270 - World Political Geography (3)
- POLS 3526 - Oil, Water, and Security (3)
- POLS 3530 - International Organizations (3)
- POLS 3553 - Women and Politics (3)
- POLS 4520 - Principles of International Development (3)
- REL 2310 - Religious Issues Today GE (3)
- REL 4020 - Religion, Gender, and Sexuality (3)
- SOC 2845 - Social Inequality (3)
- SOC 2810 - Culture and Society (3)
- SOC 3815 - Cities & Urban Life (3)
- SOC 3890 - Criminology (3)
- SOC 4850 - Money, Work & Social Life (3)

Geographic Specializations

Geographic 1 African Studies

- GEOG 3310 - Geography of Africa (3)
- GEOG 3314 - Geography of North Africa/Southwest Asia (3)
- HIST 4471 - The African Diaspora (3)
- HIST 4472 - African History (3)
- HIST 4473 - History of South Africa (3)
- POLS 4520 - Principles of International Development (3)
- REL 2070 - Religions of Africa (3)

Geographic 2 Asian Studies

- GEOG 3314 - Geography of North Africa/Southwest Asia (3)
- GEOG 4230 - Geography of Asia (3)
- HIST 4461 - The Rise of Chinese Civilization (3)
- HIST 4462 - The Rise of Japanese Civilization (3)
- HIST 4463 - Modern China (3)
- POLS 3522 - Modern Asia GE (3)
- POLS 4520 - Principles of International Development (3)
- POLS 4532 - International Relations of Asia (3)

Geographic 3 European Studies

- GEOG 3200 - Geography of Europe (3)
- GEOG 4235 - Geography of the Former Soviet Union (3)
- HIST 4412 - Wars of Reformation and Religion (3)
- HIST 4413 - The Age of Absolutism and Enlightenment (3)
- HIST 4414 - The Age of the French Revolution and Napoleon (3)
- HIST 4415 - Revolutionary Europe (3)
- HIST 4416 - Europe in Crisis: 1900-Present (3)
- HIST 4423 - Rule Britannia!: The Making and Eclipse of a Great Power (3)
- HIST 4431 - Modern Germany (3)
- HIST 4442 - The Soviet World (3)
- HIST 4451 - Imperial Spain 1469-1714 (3)
- PHIL 3130 - History of Philosophy II: Enlightenment Thought (3)
- POLS 3525 - Politics in Europe (3)
- POLS 4520 - Principles of International Development (3)

Geographic 4 Latin American Studies

- GEOG 3225 - Geography of Latin America (3)
- HIST 4451 - Imperial Spain 1469-1714 (3)
- HIST 4452 - Modern Latin America (3)
- HIST 4453 - History of Mexico (3)
- POLS 3521 - Political Economy of Africa and Latin America (3)
- POLS 4520 - Principles of International Development (3)

Geographic 5 Middle East Studies

- GEOG 3314 - Geography of North Africa/Southwest Asia (3)
- HIST 4481 - Traditional Middle East (3)
- HIST 4482 - The Modern Middle East (3)
- POLS 3524 - Middle East Politics (3)
- POLS 3526 - Oil, Water, and Security (3)
- POLS 4520 - Principles of International Development (3)
- POLS 4533 - The Israeli-Palestinian Conflict (3)

International Studies, BA (42-563) (120 hours)

Major, Bachelor of Arts Degree

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

- Exhibit an understanding of how policy decisions of developed countries affect the global system and how an interdependent world system impacts the economic and social patterns of developing countries.
- Demonstrate knowledge of the social movements and organizations that contribute to the creation of goals and values that transcend national cultures and ideologies.

- Communicate effectively at the intermediate level in a foreign language.
- Apply the discipline's theories, approaches, and methods to interpret global issues.
- Exhibit sensitivity and respect for other cultures as well as an ability to operate with civility in a complex, diverse and globalized world.

International Studies, BA (42-563) (4 Year Guide)

Major Requirements: 42 Semester Hours

- ANTH 4870 - Ethnographic Methods (3)
- GEOG 2246 - Economic Geography (3)
- IS 1000 - Introduction to International Studies GE (3)
- IS 3000 - International Studies in Practice (3)
- IS 4950 - Senior Seminar (3) ¹⁰
- POLS 2520 - Comparative Government and Politics (3)
- POLS 2530 - World Politics GE (3)
- Electives in a Content specialization (6 upper-level required) (12)
- Electives in Geographic specialization (6)

- SOC 3885 - Globalization and the Future (3)
OR
- POLS 3531 - Five Wars of Globalization (3)

Content Specializations

Content 1 The Global Society & Culture

- ANTH 3850 - Globalization and Culture (3)
- ART 4850 - Twentieth Century Art and Architecture (3)
- CJ 3020 - Comparative Justice Systems (3)
- ENGL 2270 - Fiction by Women Around the World (3)
- GEOG 4270 - World Political Geography (3)
- GISL 4244 - Cross-Cultural Cinema (3)
- HIST 1402 - History of the Modern World GE (3)
- PHIL 3130 - History of Philosophy II: Enlightenment Thought (3)
- POLS 3531 - Five Wars of Globalization (3) *
- POLS 3535 - Model United Nations GE (3)
- POLS 3541 - Contemporary Political Theory (3)
- POLS 3553 - Women and Politics (3)
- REL 2310 - Religious Issues Today GE (3)
- REL 4020 - Religion, Gender, and Sexuality (3)
- SOC 2810 - Culture and Society (3)
- SOC 4850 - Money, Work & Social Life (3)

* May not be taken in both Major Requirements and Content Specialization.

Content 2 International Relations, Peace & Justice

- CJ 2405 - International Policing (3)
- CJ 4444 - Terrorism (3)
- GEOG 4270 - World Political Geography (3)
- HIST 4325 - History of American Diplomacy (3)
- HIST 4416 - Europe in Crisis: 1900-Present (3)
- HIST 4418 - War and Modern Society (3)
- HIST 4432 - Nazi Germany and the Holocaust (3)
- POLS 3526 - Oil, Water, and Security (3)
- POLS 3527 - Security in the 21st Century (3)
- POLS 3530 - International Organizations (3)
- POLS 3598 - International Human Rights (3)
- POLS 4530 - International Law (3)
- POLS 4531 - American Foreign Policy (3)
- POLS 4532 - International Relations of Asia (3)
- POLS 4533 - The Israeli-Palestinian Conflict (3)
- REL 3010 - Religion and Poverty (3)

Content 3 International Political Economy & Policy Studies

- AGRI 2130 - Global Agriculture GE (3)
- ECON 1011 - Principles of Microeconomics GE (3)
- ECON 4050 - Comparative Economic Systems (3)
- GEOG 4270 - World Political Geography (3)
- INDM 4010 - Current Issues in Industry (3)
- POLS 3530 - International Organizations (3)
- POLS 3531 - Five Wars of Globalization (3) *
- POLS 4511 - Public Policy (3)
- POLS 4520 - Principles of International Development (3)
- POLS 4531 - American Foreign Policy (3)
- SOC 2845 - Social Inequality (3)

* May not be taken in both Major Requirements and Content Specialization.

Content 4 Human Development & the Physical Environment

- GEOS 3010 - Environmental Geology (3)
- ECON 4050 - Comparative Economic Systems (3)
- GEOG 4265 - Urban Geography (3)
- GEOG 4270 - World Political Geography (3)
- POLS 3526 - Oil, Water, and Security (3)
- POLS 3530 - International Organizations (3)
- POLS 3553 - Women and Politics (3)
- POLS 4520 - Principles of International Development (3)
- REL 2310 - Religious Issues Today GE (3)
- REL 4020 - Religion, Gender, and Sexuality (3)

- SOC 2810 - Culture and Society (3)
- SOC 2845 - Social Inequality (3)
- SOC 3815 - Cities & Urban Life (3)
- SOC 3890 - Criminology (3)
- SOC 4850 - Money, Work & Social Life (3)

Geographic Specializations

Geographic 1 African Studies

- GEOG 3310 - Geography of Africa (3)
- GEOG 3314 - Geography of North Africa/Southwest Asia (3)
- HIST 4471 - The African Diaspora (3)
- HIST 4472 - African History (3)
- HIST 4473 - History of South Africa (3)
- POLS 3521 - Political Economy of Africa and Latin America (3)
- POLS 4520 - Principles of International Development (3)
- REL 2070 - Religions of Africa (3)

Geographic 2 Asian Studies

- GEOG 3314 - Geography of North Africa/Southwest Asia (3)
- GEOG 4230 - Geography of Asia (3)
- HIST 4461 - The Rise of Chinese Civilization (3)
- HIST 4462 - The Rise of Japanese Civilization (3)
- HIST 4463 - Modern China (3)
- POLS 3522 - Modern Asia GE (3)
- POLS 4520 - Principles of International Development (3)
- POLS 4532 - International Relations of Asia (3)

Geographic 3 European Studies

- GEOG 3200 - Geography of Europe (3)
- GEOG 4235 - Geography of the Former Soviet Union (3)
- HIST 4412 - Wars of Reformation and Religion (3)
- HIST 4413 - The Age of Absolutism and Enlightenment (3)
- HIST 4414 - The Age of the French Revolution and Napoleon (3)
- HIST 4415 - Revolutionary Europe (3)
- HIST 4416 - Europe in Crisis: 1900-Present (3)
- HIST 4423 - Rule Britannia!: The Making and Eclipse of a Great Power (3)
- HIST 4431 - Modern Germany (3)
- HIST 4442 - The Soviet World (3)
- HIST 4451 - Imperial Spain 1469-1714 (3)
- PHIL 3130 - History of Philosophy II: Enlightenment Thought (3)
- POLS 3525 - Politics in Europe (3)
- POLS 4520 - Principles of International Development (3)

Geographic 4 Latin American Studies

- GEOG 3225 - Geography of Latin America (3)
- HIST 4451 - Imperial Spain 1469-1714 (3)
- HIST 4452 - Modern Latin America (3)
- HIST 4453 - History of Mexico (3)
- POLS 3521 - Political Economy of Africa and Latin America (3)
- POLS 4520 - Principles of International Development (3)

Geographic 5 Middle East Studies

- GEOG 3314 - Geography of North Africa/Southwest Asia (3)
- HIST 4481 - Traditional Middle East (3)
- HIST 4482 - The Modern Middle East (3)
- POLS 3524 - Middle East Politics (3)
- POLS 3526 - Oil, Water, and Security (3)
- POLS 4520 - Principles of International Development (3)
- POLS 4533 - The Israeli-Palestinian Conflict (3)

General Education Requirements: 27-33 Semester Hours

All students must complete a minimum of 42 credit hours in general education. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major:

- IS 1000 - Introduction to International Studies GE (3)
- POLS 2530 - World Politics GE (3)
- REL 2310 - Religious Issues Today GE (3) (if chosen in content area)

- HIST 1402 - History of the Modern World GE (3)
- **OR**
- AGRI 2130 - Global Agriculture GE (3) (if chosen in content area)

- Modern Language GE (3)

Modern Language Requirement: 12 Semester Hours

All international studies majors must demonstrate proficiency in a modern language other than their native language. This requirement can be satisfied in one of the following ways: a) Complete 12 credit hours of one modern language with a grade of C or better in each course; b) Test and receive a ranking of "intermediate" (equivalent to 2 years or 12 hours) in a modern language; c) Test and receive a ranking of "intermediate" in both the oral and written portions of the ACTFL test in a modern language.

International Experience Requirement

All international studies majors must satisfy one of the following: a) Participate in a study abroad program approved by UCM; b) Participate in an international internship approved by the International Studies Director

and sponsored by a school at UCM; c) Participate in an international service learning program approved by the International Studies Director.

Free Electives: 33-39 Semester Hours

Minimum Total: 120 Semester Hours

¹⁰Competency 10 course

Middle Eastern Studies Minor (637) (21 hours)

Minor for a Bachelor's Degree

UCM does not confer teacher certification for this minor.

Minor Requirements: 21 Semester Hours

- POLS 3524 - Middle East Politics (3)
- HIST 4481 - Traditional Middle East (3)
OR
- HIST 4482 - The Modern Middle East (3)
- IS 1000 - Introduction to International Studies GE (3)
OR
- POLS 2520 - Comparative Government and Politics (3)

Select 4 electives from the following: 12 Semester Hours

- CJ 4444 - Terrorism (3)
- GEOG 3314 - Geography of North Africa/Southwest Asia (3)
- POLS 3526 - Oil, Water, and Security (3)
- POLS 4533 - The Israeli-Palestinian Conflict (3)
- POLS 4590 - Special Projects in Political Science (1-6) (3) (with instructor approval)
- REL 3055 - Islam Now & Then (3)
- HIST 4481 or HIST 4482 if not chosen above.

Modern Languages Minor (569) (21 hours)

Minor for a Bachelor's Degree

Minor Requirements: 21 Semester Hours

Must include at least one upper-level (3000/4000) course to meet graduation requirements.

- 21 hours of ONE language beyond Elementary II (21)

Modern Languages, BA (42-574) - Language and Culture Option (ML01) (120 hours)

Major, Bachelor of Arts Degree

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

- Use the target language orally and in writing in a variety of informal and formal situations
- Comprehend a variety of authentic materials in the target language 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.

Modern Languages, BA (42-574) - Language and Culture Option (ML01) (4 Year Guide)

Major requirements: 39 Semester Hours

- GISL 4244 - Cross-Cultural Cinema (3) ¹⁰
- 36 hours of ONE language beyond Elementary II (36)

General Education: 42 Semester Hours

All students must complete a minimum of 42 credit hours in general education. See The General Education Program Requirements for full listing of requirements.

Free Electives: 39 Semester Hours

Minimum Total: 120 Semester Hours

¹⁰ Competency 10 course

Modern Languages, BA (42-574) - Professional Applications Option (ML02) (120 hours)

Major, Bachelor of Arts Degree

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

- Use the target language orally and in writing in a variety of informal and formal situations
- Comprehend a variety of authentic materials in the target language 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.

Modern Languages, BA (42-574) - Professional Applications Option (ML02) Criminal Justice Concentration (4 Year Guide)

Modern Languages, BA (42-574) - Professional Applications Option (ML02) Hospitality Management Concentration (4 Year Guide)

Modern Languages, BA (42-574) - Professional Applications Option (ML02) Marketing Concentration (4 Year Guide)

Modern Languages, BA (42-574) - Professional Applications Option (ML02) Public Relations Concentration (4 Year Guide)

Major Requirements: 39-69 Semester Hours

Professional Applications Option

- 33 hours of ONE language beyond Elementary II (33)
- ML 4050 - Language in the Professions/Translation (3)
- GISL 4244 - Cross-Cultural Cinema (3) ¹⁰
- Select ONE Concentration listed (30)

Criminal Justice Concentration: 30 Semester Hours

- CJ 1000 - Introduction to Criminal Justice GE (3)
- CJ 2300 - Criminal Law and Procedure (3)
- CJ 3006 - Corrections (3)
- CJ 3010 - Policing a Democratic Society (3)
- CJ 3020 - Comparative Justice Systems (3)
- CJ 4503 - Dynamics of Criminal Behavior (3)
- CJ 4602 - Internship in Criminal Justice (1-6) (3)
- Electives in Criminal Justice (9)

Hospitality Management Concentration: 30 Semester Hours

- HM 1800 - Introduction to Hospitality (3)
- HM 2830 - Hospitality Management Case Analysis (1) (1 credit, take 3 times)
- HM 3800 - Lodging Management (3)
- HM 3810 - Internship in Hotel and Restaurant Management (1-3) (3)
- HM 3825 - Events Management (3)
- HM 3844 - Restaurant Operations (3)
- ACCT 1101 - Foundations of Financial Reporting (3)
- HRM 3920 - Human Resource Management (3)
- MGT 3320 - XBOB eXperience Based Organizational Behavior (3)
- MGT 3325 - Business Communication (3) ⁺

Marketing Concentration: 30 Semester Hours

- MKT 3405 - Principles of Marketing (3)
- MKT 3430 - Professional Sales (3)
- MKT 3435 - Internship in Marketing (1-6) (3)
- MKT 3480 - Consumer Behavior (3)
- MKT 4460 - International Marketing (3) **
- MGT 3315 - Management of Organizations (3)

Electives from the Following: 6 Semester Hours

- BLAW 2720 - Legal Environment of Business (3)
- ECON 1010 - Principles of Macroeconomics GE (3)
- MKT 3410 - Retail Management (3)
- MKT 3420 - Principles of Advertising (3)
- MKT 3450 - Digital Marketing (3)
- MKT 4410 - Advanced Professional Sales (3)
- MKT 4454 - Sports Marketing (3)

Note:

** Departmental consent required

Public Relations Concentration: 30 Semester Hours

- COMM 3010 - Interpersonal Communication (3)
- COMM 3100 - Communication Research Methods (3)
- COMM 3340 - Intercultural Communication GE (3) **
- POLS 4520 - Principles of International Development (3)
- PR 2620 - Principles of Public Relations (3)
- PR 3610 - Writing and Editing (3)
- PR 3620 - Strategic Planning and Research for PR (3)
- PR 4605 - Public Relations Internship (1-3) (3)
- PR 4670 - Strategic Crisis Communication (3) +
- PR 4680 - Advanced PR Writing (3)

Note:

** Instructor consent required

General Education Requirements: 39-42 Semester Hours

All students must complete a minimum of 42 credit hours in general education. See The General Education Program Requirements for full listing of requirements.

Free Electives: 9-39 Semester Hours

Minimum Total: 120 Semester Hours

¹⁰ Competency 10 course

+ This course has a prerequisite not listed in the program; click on the course number for additional requirements.

Modern Languages, BA (42-574) - Teacher Education Option (ML03) (120 hours)

Major, Bachelor of Arts Degree

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

- Use the target language orally and in writing in a variety of informal and formal situations
- Comprehend a variety of authentic materials in the target language 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 the target language at elementary and/or secondary school levels.

Teacher Education Policies

Modern Languages, BA (42-574) - Teacher Education Option (ML03) (4 Year Guide)

Major Requirements: 33 Semester Hours

Teacher Education Option*

*See Teacher Education for more information on Certification requirements, Admission to the Teacher Education Program, and Admission to the Professional Education Semester/Student Teaching.

- 33 hours of ONE language beyond Elementary II (33)
- ML 4054 - Methods of Teaching Foreign Languages (3)

Professional Education Requirements: 33 Semester Hours

- EDFL 2100 - Introduction to the Teaching Profession (3)
- EDFL 2250 - Introduction to English Language Learners and Culturally Responsive Pedagogy (2)
- EDFL 4210 - Introduction to Content Area Literacy (2)
- EDFL 4970 - Secondary Teaching and Behavioral Management (2)
- EDFL 4971 - K-12 Content Area Literacy (1)
- EDFL 4973 - Classroom Management in Content Areas (1)
- EDFL 4974 - Content Specific Assessment (1)
- EDSP 2100 - Education of the Exceptional Child (3)

- FLDX 2150 - Introductory Field Experience (1)
- FLDX 3000 - Field Experience in the Content Area (1)
- FLDX 4970 - Field Experience II in the Content Area (1)
- PSY 3220 - Life-Span Development (3)

Student Teaching Semester: 12 Semester Hours

- FLDX 4468 - Student Teaching Secondary II (1-12) (6) ¹⁰
- FLDX 4496 - Student Teaching Elementary II (1-12) (6) ¹⁰

General Education Requirements: 39-42 Semester Hours

All students must complete a minimum of 42 credits hours in general education. See The General Education Program Requirements for full listing of requirements. Some General Education courses included in the major are used to satisfy General Education requirements, but additional courses within the same General Education categories are not. The following General Education classes are required in this program:

- EDFL 2240 - Educational Psychology GE (3)
- POLS 1510 - American Government GE (3)
- HIST 1350 - History of the United States to 1877 GE (3)
OR
- HIST 1351 - History of the United States from 1877 GE (3)

Free Electives: 9-39 Semester Hours

Minimum Total: 120 Semester Hours

¹⁰ Competency 10 course

Political Science Minor (427) (21 hours)

Minor for a Bachelor's Degree

UCM does not confer teacher certification for this minor.

Minor Requirements: 21 Semester Hours

- POLS 1500 - Introduction to Politics GE (3)
- POLS 1510 - American Government GE (3)
- POLS 2540 - Survey of Political Theory (3)

One Course from Each of the Four Following Areas: 12 Semester Hours

Must include at least one upper-level (3000/4000) course to meet graduation requirements.

Area 1 - American Politics

- POLS 1244 - Workshop in Politic Science (1-3) (1-3)
- POLS 2511 - State Government GE (3)
- POLS 3552 - Political Parties and Interest Groups (3)
- POLS 3550 - Public Opinion and Mass Media (3)
- POLS 3551 - Race and Ethnic Politics in the United States (3)
- POLS 4552 - Legislative Politics (3)
- POLS 4555 - The American Presidency (3)
- POLS 4570 - Public Administration (3)
- POLS 4571 - Municipal Administration (3)
- POLS 4590 - Special Projects in Political Science (1-6)
- POLS 4591 - Internship in Political Science (1-6)
- POLS 4592 - Problems in National, State or Local Government (1-3)

Area 2 - Public Law and Theory

- POLS 2580 - Public Law and the Judicial Process (3)
- POLS 3541 - Contemporary Political Theory (3)
- POLS 3581 - Trial Advocacy GE (3)
- POLS 4580 - American Constitutional Law (3)
- POLS 4581 - Civil Rights and Liberties (3)
- POLS 4583 - First Amendment (3)
- POLS 4590 - Special Projects in Political Science (1-6)
- POLS 4591 - Internship in Political Science (1-6)

Area 3 - Comparative Politics

- POLS 2520 - Comparative Government and Politics (3)
- POLS 3521 - Political Economy of Africa and Latin America (3)
- POLS 3522 - Modern Asia GE (3)
- POLS 3524 - Middle East Politics (3)
- POLS 3525 - Politics in Europe (3)
- POLS 3526 - Oil, Water, and Security (3)
- POLS 3553 - Women and Politics (3)
- POLS 4511 - Public Policy (3)
- POLS 4533 - The Israeli-Palestinian Conflict (3)
- POLS 4590 - Special Projects in Political Science (1-6)
- POLS 4591 - Internship in Political Science (1-6)

Area 4 - International Relations

- POLS 2530 - World Politics GE (3)
- POLS 3535 - Model United Nations GE (3)
- POLS 3527 - Security in the 21st Century (3)
- POLS 3530 - International Organizations (3)
- POLS 3531 - Five Wars of Globalization (3)

- POLS 3598 - International Human Rights (3)
- POLS 4520 - Principles of International Development (3)
- POLS 4530 - International Law (3)
- POLS 4531 - American Foreign Policy (3)
- POLS 4532 - International Relations of Asia (3)
- POLS 4590 - Special Projects in Political Science (1-6)
- POLS 4591 - Internship in Political Science (1-6)

Political Science, BA (42-425) (120 hours)

Major, Bachelor of Arts Degree

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

- Demonstrate knowledge and understanding of core concepts, ideologies, and theories in Political Science
- Analyze, conduct, and critically assess scholarly research in Political Science
- Communicate effectively about politics in both written and oral forms

Political Science, BA (42-425) (4 Year Guide)

Major Requirements: 36 Semester Hours

- POLS 1500 - Introduction to Politics GE (3)
- POLS 1510 - American Government GE (3)

- POLS 2520 - Comparative Government and Politics (3)
- OR**
- POLS 2530 - World Politics GE (3)

- POLS 2540 - Survey of Political Theory (3)
- POLS 3560 - Research Methods in Political Science (3)
- POLS 4601 - Senior Seminar in Political Science (3) ¹⁰
- Electives in political science (9)

Note:

Students must take one class from each of the three (3) areas not chosen for their main area. POLS 4590, POLS 4591, POLS 4592 and POLS 1244 do not fulfill this requirement. Students must earn twelve (12) hours of upper-level (3000/4000) credit in their major and thirty (30) hours overall. Choose major electives accordingly.

Select from One of the Following Areas of Emphasis: 9 Semester Hours

Area 1 - American Politics

- POLS 1244 - Workshop in Politic Science (1-3)
- POLS 2511 - State Government GE (3)

- POLS 3550 - Public Opinion and Mass Media (3)
- POLS 3551 - Race and Ethnic Politics in the United States (3)
- POLS 3552 - Political Parties and Interest Groups (3)
- POLS 4552 - Legislative Politics (3)
- POLS 4555 - The American Presidency (3)
- POLS 4570 - Public Administration (3)
- POLS 4571 - Municipal Administration (3)
- POLS 4590 - Special Projects in Political Science (1-6)
- POLS 4591 - Internship in Political Science (1-6)
- POLS 4592 - Problems in National, State or Local Government (1-3)

Area 2 - Public Law and Theory

- POLS 2580 - Public Law and the Judicial Process (3)
- POLS 3541 - Contemporary Political Theory (3)
- POLS 3581 - Trial Advocacy GE (3)
- POLS 4580 - American Constitutional Law (3)
- POLS 4581 - Civil Rights and Liberties (3)
- POLS 4583 - First Amendment (3)
- POLS 4590 - Special Projects in Political Science (1-6)
- POLS 4591 - Internship in Political Science (1-6)

Area 3 - Comparative Politics

- POLS 2520 - Comparative Government and Politics (3)
- POLS 3521 - Political Economy of Africa and Latin America (3)
- POLS 3522 - Modern Asia GE (3)
- POLS 3524 - Middle East Politics (3)
- POLS 3525 - Politics in Europe (3)
- POLS 3526 - Oil, Water, and Security (3)
- POLS 3553 - Women and Politics (3)
- POLS 4511 - Public Policy (3)
- POLS 4533 - The Israeli-Palestinian Conflict (3)
- POLS 4590 - Special Projects in Political Science (1-6)
- POLS 4591 - Internship in Political Science (1-6)

Area 4 - International Relations

- POLS 2530 - World Politics GE (3)
- POLS 3527 - Security in the 21st Century (3)
- POLS 3530 - International Organizations (3)
- POLS 3531 - Five Wars of Globalization (3)
- POLS 3535 - Model United Nations GE (3)
- POLS 3598 - International Human Rights (3)
- POLS 4520 - Principles of International Development (3)
- POLS 4530 - International Law (3)
- POLS 4531 - American Foreign Policy (3)

- POLS 4532 - International Relations of Asia (3)
- POLS 4590 - Special Projects in Political Science (1-6)
- POLS 4591 - Internship in Political Science (1-6)

General Education Requirements: 30-33 Semester Hours

All students must complete a minimum of 42 credit hours in general education. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major:

- POLS 1500 - Introduction to Politics GE (3)
- POLS 1510 - American Government GE (3)
- POLS 3535 - Model United Nations GE (3) (if chosen for Area 4)
- POLS 3581 - Trial Advocacy GE (3) (if chosen for Area 2)
- Modern Language GE (3)

Modern Language Requirement: 6-9 Semester Hours

Refer to Bachelor's Degree Requirements section for fulfillment options

Free Electives: 42-48 Semester Hours

Minimum Total: 120 Semester Hours

¹⁰Competency 10 course

Political Science, BS (43-426) (120 hours)

Major, Bachelor of Science Degree

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

- Demonstrate knowledge and understanding of core concepts, ideologies, and theories in Political Science
- Analyze, conduct, and critically assess scholarly research in Political Science
- Communicate effectively about politics in both written and oral forms

Political Science, BS (43-426) (4 Year Guide)

Major Requirements: 36 Semester Hours

- POLS 1500 - Introduction to Politics GE (3)
- POLS 1510 - American Government GE (3)
- POLS 2520 - Comparative Government and Politics (3)
OR
- POLS 2530 - World Politics GE (3)

- POLS 2540 - Survey of Political Theory (3)
- POLS 3560 - Research Methods in Political Science (3)
- POLS 4601 - Senior Seminar in Political Science (3) ¹⁰
- Electives in political science (9)

Note:

Students must take one class from each of the three (3) areas not chosen for their main area.

POLS 1244, POLS 4590, POLS 4591 and POLS 4592 do not fulfill this requirement.

Students must earn twelve (12) hours of upper-level (3000/4000) credit in their major and thirty (30) hours overall. Choose major electives accordingly.

Electives from One of the Following Areas: 9 Semester Hours

Area 1 - American Politics

- POLS 1244 - Workshop in Politic Science (1-3)
- POLS 2511 - State Government GE (3)
- POLS 3550 - Public Opinion and Mass Media (3)
- POLS 3551 - Race and Ethnic Politics in the United States (3)
- POLS 3552 - Political Parties and Interest Groups (3)
- POLS 4552 - Legislative Politics (3)
- POLS 4555 - The American Presidency (3)
- POLS 4570 - Public Administration (3)
- POLS 4571 - Municipal Administration (3)
- POLS 4590 - Special Projects in Political Science (1-6)
- POLS 4591 - Internship in Political Science (1-6)
- POLS 4592 - Problems in National, State or Local Government (1-3)

Area 2 - Public Law and Theory

- POLS 2580 - Public Law and the Judicial Process (3)
- POLS 3541 - Contemporary Political Theory (3)
- POLS 3581 - Trial Advocacy GE (3)
- POLS 4580 - American Constitutional Law (3)
- POLS 4581 - Civil Rights and Liberties (3)
- POLS 4583 - First Amendment (3)
- POLS 4590 - Special Projects in Political Science (1-6)
- POLS 4591 - Internship in Political Science (1-6)

Area 3 - Comparative Politics

- POLS 2520 - Comparative Government and Politics (3)
- POLS 3521 - Political Economy of Africa and Latin America (3)

- POLS 3522 - Modern Asia GE (3)
- POLS 3524 - Middle East Politics (3)
- POLS 3525 - Politics in Europe (3)
- POLS 3526 - Oil, Water, and Security (3)
- POLS 3553 - Women and Politics (3)
- POLS 4511 - Public Policy (3)
- POLS 4533 - The Israeli-Palestinian Conflict (3)
- POLS 4590 - Special Projects in Political Science (1-6)
- POLS 4591 - Internship in Political Science (1-6)

Area 4 - International Relations

- POLS 2530 - World Politics GE (3)
- POLS 3527 - Security in the 21st Century (3)
- POLS 3530 - International Organizations (3)
- POLS 3531 - Five Wars of Globalization (3)
- POLS 3535 - Model United Nations GE (3)
- POLS 3598 - International Human Rights (3)
- POLS 4520 - Principles of International Development (3)
- POLS 4530 - International Law (3)
- POLS 4531 - American Foreign Policy (3)
- POLS 4532 - International Relations of Asia (3)
- POLS 4590 - Special Projects in Political Science (1-6)
- POLS 4591 - Internship in Political Science (1-6)

General Education Requirements: 33-36 Semester Hours

All students must complete a minimum of 42 credit hours in general education. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major:

- POLS 1500 - Introduction to Politics GE (3)
- POLS 1510 - American Government GE (3)
- POLS 3535 - Model United Nations GE (3) (if chosen for Area 4)
- POLS 3581 - Trial Advocacy GE (3) (if chosen for Area 2)

Free Electives: 48-51 Semester Hours

Minimum Total: 120 Semester Hours

¹⁰Competency 10 course

Social Gerontology Minor (678) (15 hours)

Minor for a Bachelor's Degree

UCM does not confer teacher certification for this minor.

Students minoring in Social Gerontology, upon graduation, will be able to:

- Describe the diversity and complexity of the adult life course and dispel unfounded stereotypes about aging and older adults.
- Recognize the effects of aging populations on societal institutions, such as the family, healthcare, and the economy.
- Use evidence-based information and accurate vocabulary to communicate about aging and social gerontology.

Minor Requirements: 15 Semester Hours

Required Minor Courses: 9 Semester Hours

- SOC 3854 - Generations: Aging in Society (3)
 - SOC 4894 - Sociology of Aging (3)
- 3 Credit hours related to Dying, Death and Bereavement, chosen from the following:
- CFD 4570 - Death, Loss, and Grief Across the Lifespan (3)
 - GERO 4854 - Death in the Midst of Life (3)
- OR
- NUR 4020 - Grief and Loss (2) **AND** NUR 2710 - Introduction to Nursing Applications Across the Lifespan (1) OR GERO 4814 - Issues in Social Gerontology (1-3) ******(1)

Elective Courses: 6 Semester Hours

- CFD 3230 - Family Systems and Lifespan Development (3)
- CFD 4260 - Adulthood (3)
- GERO 4814 - Issues in Social Gerontology (1-3)
- PSY 3220 - Life-Span Development (3) ******
- PSY 4240 - Psychology of Aging (3) ******
- SOC 2825 - Families, Homes & Communities (3)
- SOC 3870 - Society & Self (3)
- SOC 4855 - Family Diversity (3)
- SOC 4870 - Gender, Sexuality, & Inequality (3)
- SOC 4875 - Medical Sociology (3)
- SOWK 3612 - Human Behavior Across the Lifespan (3) ******
- WGS 2000 - Intersections: Gender, Race, Class GE (3)

****** Courses with prerequisites not included in minor

Social Studies Minor (BSE) (418) (24-27 hours)

Minor, Bachelor of Science in Education Degree

Minor Requirements: 24-27 Semester Hours

- HIST 1350 - History of the United States to 1877 GE (3)

- HIST 1351 - History of the United States from 1877 GE (3)
- HIST 1402 - History of the Modern World GE (3)
- POLS 1510 - American Government GE (3)

- GEOG 2212 - World Geography GE (3)
OR
- GEOG 3201 - The Cultural Landscape GE (3)

- ECON 1010 - Principles of Macroeconomics GE (3)
OR
- ECON 1011 - Principles of Microeconomics GE (3)

- Upper-level (3000/4000) elective in American history (2-3)
- Upper-level (3000/4000) elective in world history (2-3)
- 2000-4000 level elective in GEOG, POLS, SOC, or ANTH (2-3)

Sociology Minor (757) (18 hours)

Minor for a Bachelor's Degree

UCM does not confer teacher certification for this minor.

Minor Requirements: 18 Semester Hours

- SOC 1800 - General Sociology GE (3)
- Electives in Sociology (9) ⁺

- SOC 2810 - Culture and Society (3)
OR
- SOC 2845 - Social Inequality (3)
OR
- SOC 2850 - Institutions and Social Action (3)

- SOC 3815 - Cities & Urban Life (3)
OR
- SOC 3830 - Protests, Riots & Movements (3)
OR
- SOC 3854 - Generations: Aging in Society (3)

Note:

⁺ Must include at least one upper-level (3000/4000) course to meet graduation requirements.

Sociology, BA (42-755) (120 hours)

Major, Bachelor of Arts Degree

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

- Apply a sociological imagination to social phenomena by linking individual life circumstances to social structures and socio-historical contexts.
- Utilize a set of core sociological concepts and empirical knowledge to critically assess social phenomena at both the micro and macro perspectives of social life.
- Develop a critical question, effectively use theory and empirical data to address the question, and accurately convey the findings.
- Demonstrate professional ethics in their research and sociological practice.

Sociology, BA (42-755) (4 Year Guide)

Major Requirements: 33 Semester Hours

- SOC 1800 - General Sociology GE (3)
- SOC 2805 - Introduction to Social Research (3) *

- SOC 2810 - Culture and Society (3)
OR
- SOC 2845 - Social Inequality (3)
OR
- SOC 2850 - Institutions and Social Action (3)

- SOC 3815 - Cities & Urban Life (3)
OR
- SOC 3830 - Protests, Riots & Movements (3)
OR
- SOC 3854 - Generations: Aging in Society (3)

- SOC 4860 - Sociological Thought (3)
- SOC 4890 - Social Survey Research (3)
- SOC 4895 - Senior Seminar in Public Sociology (3) ¹⁰

Electives in Sociology: 12 Semester Hours**

General Education Requirement: 36 Semester Hours

All students must complete a minimum of 42 credit hours in general education. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major:

- SOC 1800 - General Sociology GE (3)
- Modern Language GE (3)

Modern Language Requirement: 6-9 Semester Hours

Refer to Bachelor's Degree Requirements section for fulfillment options.

Free Electives: 42-45 Semester Hours

Minimum Total: 120 Semester Hours

¹⁰Competency 10 course

*NOTE: Students pursuing a double major or minor who have already completed an upper-level (3000/4000) research course may substitute that course for SOC 2805 with permission of the program coordinator.

**It is suggested to either declare a minor or an area of study connected to Sociology electives. Students are not required to declare a particular area, but they are encouraged to discuss possible options with their Sociology Advisor or the Sociology Coordinator.

Sociology, BS (43-756) (120 hours)

Major, Bachelor of Science Degree

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

- Apply a sociological imagination to social phenomena by linking individual life circumstances to social structures and socio-historical contexts.
- Utilize a set of core sociological concepts and empirical knowledge to critically assess social phenomena at both the micro and macro perspectives of social life.
- Develop a critical question, effectively use theory and empirical data to address the question, and accurately convey the findings.
- Demonstrate professional ethics in their research and sociological practice.

Sociology, BS (43-756) (4 Year Guide)

Major Requirements: 39 Semester Hours

- SOC 1800 - General Sociology GE (3)
- SOC 2805 - Introduction to Social Research (3) *

- SOC 2810 - Culture and Society (3)
OR
- SOC 2845 - Social Inequality (3)
OR
- SOC 2850 - Institutions and Social Action (3)

- SOC 3815 - Cities & Urban Life (3)
OR
- SOC 3830 - Protests, Riots & Movements (3)
OR

- SOC 3854 - Generations: Aging in Society (3)
- SOC 4860 - Sociological Thought (3)
- SOC 4890 - Social Survey Research (3)
- SOC 4895 - Senior Seminar in Public Sociology (3) ¹⁰

Electives in Sociology: 18 Semester Hours**

General Education Requirement: 39 Semester Hours

All students must complete a minimum of 42 credit hours in general education. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major:

- SOC 1800 - General Sociology GE (3)

Free Electives: 42 Semester Hours

Minimum Total: 120 Semester Hours

¹⁰Competency 10 course

*NOTE: Students pursuing a double major or minor who have already completed an upper-level (3000/4000) research course may substitute that course for SOC 2805 with permission of the program coordinator.

**It is suggested to either declare a minor or an area of study connected to Sociology electives. Students are not required to declare a particular area, but they are encouraged to discuss possible options with their Sociology Advisor or the Sociology Coordinator.

Spanish for Healthcare Professionals Certificate (10-633) (12 hours)

Certificate

Required Courses: 12 Semester Hours

- SPAN 1611 - Elementary Spanish I for Healthcare Professionals GE (3)
- SPAN 1612 - Elementary Spanish II for Healthcare Professionals GE (3)
- SPAN 2611 - Intermediate Spanish I for Healthcare Professionals GE (3)
- SPAN 2612 - Intermediate Spanish II for Healthcare Professionals GE (3)

World Languages and Cultures Minor (573) (27 hours)

Minor for a Bachelor's Degree

Minor Requirements: 27 Semester Hours

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 with at least one upper-level (3000/4000) course (FREN, GER, SPAN, ML) (15) *

Note:

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 Government, International Studies, and Languages must substitute 3000-level English courses in lieu of courses in their language.

*Must include at least one upper-level (3000/4000) course to meet graduation requirements.

School of Visual and Performing Arts

The School of Visual and Performing Arts is comprised of:

- Art, Interior Design, Graphic Design & Photography
- Music
- Theatre and Dance

Art Minor (484) (24 hours)

Minor for a Bachelor's Degree

Except for a Bachelor of Science in Education Degree.

Minor Requirements: 24 Semester Hours

- ART 1110 - Drawing I (3)
- ART 1120 - Drawing II (3)
- ART 1315 - Foundation I (3: 0 lecture, 3 lab)
- ART 1325 - Foundation II (3: 0 lecture, 3 lab)
- ART 1815 - Art History Survey I GE (3)
- ART 1825 - Art History Survey II GE (3)
- ART 3209 - Figure Construction (3)
- Elective in Art (3)

Art Minor (BSE) (369) (26 hours)

Minor, Bachelor of Science in Education Degree

Minor Requirements: 26 Semester Hours

- ART 1110 - Drawing I (3)
- ART 1315 - Foundation I (3: 0 lecture, 3 lab)
- ART 2412 - Ceramics I (3)
- ART 2420 - Sculpture I (3)
- ART 2710 - Printmaking I (3)
- ART 3314 - Fibers (3)
- ART 3915 - Methods of Teaching Art I: Media and Curriculum (2)

- ART 1815 - Art History Survey I GE (3)
OR
- ART 1825 - Art History Survey II GE (3)

- ART 2511 - Painting I (3)
OR
- ART 3510 - Watercolor (3)

Art, BSE (41-260) (127 hours)

Major, Bachelor of Science in Education Degree

Certification to teach art in grades K-12.

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

- Utilize reflective critical and creative thinking to produce innovative and skillful art and design work that integrates historical and contemporary art and design practice and theory.
- Effectively communicate and support artistically sensitive interpretations and evaluations of acclaimed and diverse historical and contemporary art and design works.
- Exhibit evidence of an understanding of the professional practices, safe and sustainable processes, and ethical standards for employment and long-term success in the graduate's degree program career field.

Art, BSE (41-260) (4 Year Guide)

Major Requirements: 64 Semester Hours

- ART 1110 - Drawing I (3)
- ART 1120 - Drawing II (3)
- ART 1211 - Photography I (3)
- ART 1315 - Foundation I (3: 0 lecture, 3 lab)
- ART 1325 - Foundation II (3: 0 lecture, 3 lab)
- ART 1815 - Art History Survey I GE (3)
- ART 1825 - Art History Survey II GE (3)
- ART 1835 - Global Arts and Culture GE (3)
- ART 2412 - Ceramics I (3)
- ART 2420 - Sculpture I (3)
- ART 2511 - Painting I (3)
- ART 2710 - Printmaking I (3)

- ART 3209 - Figure Construction (3)
- ART 3221 - Art in Theory: Contemporary Practice (3)
- ART 3314 - Fibers (3)
- ART 3911 - Art Education Foundations and Literacy (2)
- ART 3915 - Methods of Teaching Art I: Media and Curriculum (2)
- ART 4915 - Methods of Teaching Art II: Management and Assessment (3)

- ART 4850 - Twentieth Century Art and Architecture (3)
OR
- ART 4860 - Contemporary Art and Design (3)

- CFD 1220 - Child and Adolescent Development (3)
OR
- PSY 3220 - Life-Span Development (3)
OR
- PSY 2220 - Child and Adolescent Psychological Development (3)

- Upper-level (3000/4000) courses in studio art in one of the following areas: drawing, painting, watercolor, sculpture, fibers, printmaking, ceramics (6)

Professional Education Requirements: 30 Semester Hours

Must earn a 3.00 GPA or higher with no grade lower than a C in Professional Education courses.

- EDFL 2100 - Introduction to the Teaching Profession (3)
- EDFL 2240 - Educational Psychology GE (3)
- EDFL 2250 - Introduction to English Language Learners and Culturally Responsive Pedagogy (2)
- EDFL 4210 - Introduction to Content Area Literacy (2)
- EDFL 4970 - Secondary Teaching and Behavioral Management (2)
- EDSP 2100 - Education of the Exceptional Child (3)
- FLDX 2150 - Introductory Field Experience (1)
- FLDX 3000 - Field Experience in the Content Area (1)
- FLDX 4970 - Field Experience II in the Content Area (1)

Student Teaching Semester

- ART 4920 - Methods of Teaching Art III: Student Teaching Seminar (3) ¹⁰
- FLDX 4468 - Student Teaching Secondary II (1-12) (4) ⁽¹⁰⁾
- FLDX 4495 - Student Teaching Elementary I (1-12) (5) ¹⁰

General Education Requirement: 33 Semester Hours

All students must complete a minimum of 42 credit hours in general education. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major:

- ART 1815 - Art History Survey I GE (3)
- ART 1835 - Global Arts and Culture GE (3)

- HIST 1350 - History of the United States to 1877 GE (3)
OR
- HIST 1351 - History of the United States from 1877 GE (3)
- POLS 1510 - American Government GE (3)
- EDFL 2240 - Educational Psychology GE (3)

Minimum Total: 127 Semester Hours

¹⁰Competency 10 course

Dance Minor (863) (22 hours)

Minor for a Bachelor's Degree

The graduate with a Bachelor's degree with a minor in Dance will use the knowledge and skills obtained in the program to:

- Demonstrate technical proficiency and knowledge of terminology in various dance genres.
- Demonstrate technical proficiency and knowledge of terminology in various dance genres.
- Demonstrate a working knowledge of the historical, cultural, and stylistic dimensions of dance and choreography.
- Utilize improvisational & critical thinking skills in order to create, analyze, and interpret movement for the purpose of choreographing and presenting dance performances.
- Demonstrate a basic proficiency in the areas of dance production knowledge and theatre technology in order to create and present dance performances.
- Form, communicate, and defend orally and in writing, value judgments about quality and aesthetics in the works of dance.

Minor Requirements: 22 Semester Hours

Electives from the following: 4 Semester Hours

- DANC 1110 - Modern Dance I (2)
- DANC 1120 - Ballet Dance I (2)
- DANC 1130 - Tap Dance I (2)
- DANC 1140 - Jazz Dance I (2)

Required Minor Courses: 18 Semester Hours

- DANC 3210 - Musical Theatre Dance (3)
- DANC 4210 - Choreography I (3)
- DANC 2100 - Dance Appreciation GE (3)
- DANC 3110 - Modern Dance II (2)
- DANC 3120 - Ballet Dance II (2)
- DANC 3130 - Tap Dance II (2)

- DANC 3140 - Jazz Dance II (2)
- THEA 4300 - Professional Practices (1-6) (1)

Graphic Design, BFA (47-324) (124 hours)

Major, Bachelor of Fine Arts Degree

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

- Utilize reflective critical and creative thinking to produce innovative and skillful art and design work that integrates historical and contemporary art and design practice and theory.
- Effectively communicate and support artistically sensitive interpretations and evaluations of acclaimed and diverse historical and contemporary art and design works.
- Exhibit evidence of an understanding of the professional practices, safe and sustainable processes, and ethical standards for employment and long-term success in the graduate's degree program career field.

Graphic Design, BFA (47-324) (4 Year Guide)

Major Requirements: 90 Semester Hours

- ART 1110 - Drawing I (3)
- ART 1120 - Drawing II (3)
- ART 1211 - Photography I (3)
- ART 1315 - Foundation I (3: 0 lecture, 3 lab)
- ART 1325 - Foundation II (3: 0 lecture, 3 lab)
- ART 1610 - Web Languages GE (3)
- ART 1620 - Web Graphics GE (3)
- ART 1815 - Art History Survey I GE (3)
- ART 1825 - Art History Survey II GE (3)
- ART 2610 - Introduction to Graphic Design and Illustration (3)
- ART 2620 - Typography (3)
- ART 2710 - Printmaking I (3)
- ART 3221 - Art in Theory: Contemporary Practice (3)
- ART 3620 - Graphic Design 1A (3)
- ART 3630 - Graphic Design 1B (3)
- ART 3640 - Graphic Design 2A (3)
- ART 3650 - Graphic Design 2B (3)
- ART 3680 - History of Graphic Design (3)
- ART 4610 - Interactive Design (3)
- ART 4620 - Graphic Design 3A (3)
- ART 4630 - Graphic Design 3B (3) ¹⁰

- ART 2412 - Ceramics I (3)
OR
- ART 2420 - Sculpture I (3)

- ART 2511 - Painting I (3)

OR

- ART 3510 - Watercolor (3)
- ART 4850 - Twentieth Century Art and Architecture (3)

OR

- ART 4860 - Contemporary Art and Design (3)
- Elective in ART (3)

Electives from the Following: 15 Semester Hours

- ART 2211 - Photography II (3)
 - ART 3110 - Drawing III (3)
 - ART 3209 - Figure Construction (3)
 - ART 3210 - Life Drawing (3)
 - ART 3211 - Photography III (3)
 - ART 3511 - Painting II (3)
 - ART 3513 - Painting II: Plein Air (3)
 - ART 3515 - Painting II: Figure (3)
 - ART 3625 - Illustration Techniques (3)
 - ART 3635 - Illustration Concepts (3)
 - ART 3710 - Printmaking II (3)
 - ART 3720 - Printmaking III (3)
 - ART 4010 - Special Projects in Art (1-3)
 - ART 4211 - Photography IV (3)
 - ART 4324 - Papermaking (3)
 - ART 4434 - Creative Bookbinding (3)
 - ART 4511 - Painting III (3)
 - ART 4513 - Painting III: Plein Air (3)
 - ART 4515 - Painting III: Figure (3)
 - ART 4600 - Graphic Design Internship (1-6)
 - ART 4625 - Advanced Illustration I (3)
 - ART 4635 - Advanced Illustration II (3)
 - ART 4850 - Twentieth Century Art and Architecture (3)
 - ART 4860 - Contemporary Art and Design (3)
 - COMM 1630 - Web Content and Promotion Strategies (3)
 - COMM 2410 - Multimedia Production (3)
 - COMM 2412 - Introduction to Digital Video (3)
 - COMM 4120 - Advanced Multimedia Production (3)
 - PHOT 1203 - iPhoneography (3)
 - PHOT 1230 - Digital Imaging (3)
 - ART 2511 - Painting I (3)
- OR**
- ART 3510 - Watercolor (3)

General Education Requirement: 34 Semester Hours

All students must complete a minimum of 42 credit hours in general education. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major:

- ART 1610 - Web Languages GE (3)
- ART 1620 - Web Graphics GE (3)
- ART 1815 - Art History Survey I GE (3)

Minimum Total: 124 Semester Hours

¹⁰Competency 10 course

Interior Design, BFA (47-261) (124 hours)

Major, Bachelor of Fine Arts Degree

Graduation Policies for Interior Design

1. All interior design majors are required to pass Sophomore Review in order to continue in the degree program.
2. All interior design majors are required to participate in the Art and Design Senior Show.
3. All Interior design majors are required to maintain a grade point average of 2.25 for all credit hours earned at UCM or elsewhere and attain a grade point average of 2.50 for all course work in the major.

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

- Utilize reflective critical and creative thinking to produce innovative and skillful art and design work that integrates historical and contemporary art and design practice and theory.
- Effectively communicate and support artistically sensitive interpretations and evaluations of acclaimed and diverse historical and contemporary art and design works.
- Exhibit evidence of an understanding of the professional practices, safe and sustainable processes, and ethical standards for employment and long-term success in the graduate's degree program career field.

Interior Design, BFA (47-261) (4 Year Guide)

Major Requirements: 88 Semester Hours

- ART 1110 - Drawing I (3)
- ART 1120 - Drawing II (3)
- ART 1300 - Interior Design Drafting I (3)
- ART 1315 - Foundation I (3: 0 lecture, 3 lab)
- ART 1325 - Foundation II (3: 0 lecture, 3 lab)
- ART 1825 - Art History Survey II GE (3)
- ART 1835 - Global Arts and Culture GE (3)
- ART 2300 - Interior Design Drafting II (3)
- ART 2305 - Interior Design Presentation Techniques (3)
- ART 2310 - Interior Design Studio I (3)
- ART 2320 - Building Systems and Sustainability (3)
- ART 2330 - Interior Design Studio II (3)

- ART 2340 - Materials, Methods and Specifications (3)
- ART 2350 - Interior Design Building Codes and Regulations (3)
- ART 2360 - Interior Design Environmental Systems (3)
- ART 3221 - Art in Theory: Contemporary Practice (3)
- ART 3320 - Professional Practice for Interior Design I (1)
- ART 3330 - Interior Design Studio III (3)
- ART 3340 - Interior Detailing and Furniture Design (3)
- ART 3350 - Construction Documentation for Interior Design (3)
- ART 3800 - History of Furniture and Interiors I (3)
- ART 3850 - History of Furniture and Interiors II (3)
- ART 4310 - Interior Design Internship (1-3) (1)
- ART 4320 - Professional Practice for Interior Design II (2)
- ART 4340 - Interior Design Studio IV (3)
- ART 4350 - Interior Design Thesis I (3)
- ART 4360 - Interior Design Thesis II (3) ¹⁰
- ART 4850 - Twentieth Century Art and Architecture (3)
- Electives with an ART prefix (6)

- MGT 3320 - XBOB eXperience Based Organizational Behavior (3)
- OR**
- ESE 3710 - Entrepreneurial Business Planning (3)

General Education Requirement: 36 Semester Hours

All students must complete a minimum of 42 credit hours in general education. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major:

- ART 1825 - Art History Survey II GE (3)
- ART 1835 - Global Arts and Culture GE (3)
- CTE 3060 - Technical Writing GE (3)

Minimum Total: 124 Semester Hours

¹⁰Competency 10 course

Music Education, BME (45-440) - Instrumental Option (120 hours)

Major, Bachelor of Music Education Degree

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

- Interpret and analyze music through historical, cultural, and theoretical study, and communicate findings in discipline-specific formats.
- Apply current pedagogical and administrative techniques of music at elementary and secondary school levels.

- Perform, improvise, and create in individual and collaborative settings with technique, musicality, and artistry.
- Demonstrate functional piano performance skills.

Instrumental Major Option, Bachelor of Music Education Degree (45-440)

Certification to teach instrumental music in grades K-12.

Music Education, BME (45-440) (Instrumental Option - odd year start plan) (4 Year Guide)

Music Education, BME (45-440) (Instrumental Option - even year start plan) (4 Year Guide)

Major Requirements: 64.5-68.5 Semester Hours

- MUS 1000 - Recital Attendance (0) (7 semesters)
- MUS 1111 - Theory I (3) *
- MUS 1112 - Theory II (3)
- MUS 1121 - Aural Training I (1)
- MUS 1122 - Aural Training II (1)
- MUS 1225 - Music of the World's Cultures GE (3)
- MUS 1390 - Introduction to Music Education (2)
- MUS 1400 - Computer Music Notation (0.5)
- MUS 1450 - Audio and Acoustics GE (3)
- MUS 1701 - String Class (1)
- MUS 2111 - Theory III (3)
- MUS 2112 - Theory IV (3)
- MUS 2121 - Aural Training III (1)
- MUS 2122 - Aural Training IV (1)
- MUS 2300 - Fundamentals of Conducting (3)
- 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)
- MUS 3212 - Music of the Common Practice Era GE (3)
- MUS 3213 - Music Since 1900 (3)
- MUS 3308 - Marching Band Techniques (1)
- MUS 3320 - Instrumental Conducting and Rehearsal Techniques (3)
- MUS 4115 - Instrumentation (3)
- MUS 4381 - Jazz Pedagogy (2)

- MUS 1410 - Fundamentals of Music Technology I : Hardware (0.5)
OR
- MUS 1420 - Fundamentals of Music Technology I : Software (0.5)
OR

BME Instrumental Students

Are expected to be in a major large instrumental ensemble during every semester up to their student teaching semester, with a minimum of seven (7) separate semesters to include:

Woodwind, Brass & Percussion Students:

3 Semester Hours in

- MUS 1005 - Marching Band (1)

4 Combined Semester Hours in

(up to 2 total semester hours of MUS 1081, MUS 4081 & MUS 4025, may be applied toward degree)

- MUS 1010 - Symphonic Band (1)
- MUS 4010 - Symphonic Wind Ensemble (1)
- MUS 1081 - Jazz Ensemble 2 (1)
- MUS 4081 - Jazz Ensemble 1 (1)
- MUS 4025 - University Symphony Orchestra (1: 1 lecture, 0 lab) (up to 2 s.h. may be applied toward degree)

String Students:

6 Semester Hours in

- MUS 4025 - University Symphony Orchestra (1: 1 lecture, 0 lab)

1 Semester Hour in

- MUS 1097 - String Ensemble (1)

Note:

Keyboard & Guitar majors must choose band or orchestra as their major large ensemble, Guitar majors may apply up to two (2) s.h. in MUS 4088 toward their major large ensemble requirements.

Professional Education Requirements: 35 Semester Hours

Must earn a 3.00 GPA or higher with no grade lower than a C in Professional Education courses.

- EDFL 2100 - Introduction to the Teaching Profession (3)
- EDFL 2250 - Introduction to English Language Learners and Culturally Responsive Pedagogy (2)
- EDFL 4210 - Introduction to Content Area Literacy (2)
- EDFL 4970 - Secondary Teaching and Behavioral Management (2)
- EDSP 2100 - Education of the Exceptional Child (3)
- FLDX 2150 - Introductory Field Experience (1)
- FLDX 3000 - Field Experience in the Content Area (1)
- FLDX 4970 - Field Experience II in the Content Area (1)
- MUS 3305 - Methods of Teaching Elementary School Music (2)
- MUS 3306 - Methods of Teaching Instrumental Music (2-3) (3)

- CFD 1220 - Child and Adolescent Development (3)
OR
- PSY 2220 - Child and Adolescent Psychological Development (3)
OR
- PSY 3220 - Life-Span Development (3)

Student Teaching Semester: 12 Semester Hours

- FLDX 4468 - Student Teaching Secondary II (1-12) (4)
- FLDX 4495 - Student Teaching Elementary I (1-12) (5)
- MUS 4310 - Methods of Teaching Music (2) ¹⁰
- MUS 4350 - Secondary Field Experience II (1)

General Education: 33 Semester Hours

All students must complete a minimum of 42 credit hours in general education. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major:

- EDFL 2240 - Educational Psychology GE (3)
- MUS 1225 - Music of the World's Cultures GE (3)
- MUS 1450 - Audio and Acoustics GE (3)
- MUS 3212 - Music of the Common Practice Era GE (3)
- POLS 1510 - American Government GE (3)
- HIST 1350 - History of the United States to 1877 GE (3)
OR
- HIST 1351 - History of the United States from 1877 GE (3)

Minimum Total: 135-136.5 Semester Hours

For additional certification to teach vocal music with the INSTRUMENTAL Major Option, B.M.E. Degree, see the school chair.

¹⁰ Competency 10 course

* This course has a prerequisite not listed in the program if admission by examination is not sufficient.

NOTE: MUS 1210 - Experiencing Music GE (3) cannot be counted in the Music Degree Major courses or General Education courses for this degree.

Music Education, BME (45-441) - Vocal Option (132.5-126.5 hours)

Major, Bachelor of Music Education Degree

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

- Interpret and analyze music through historical, cultural, and theoretical study, and communicate findings in discipline-specific formats.
- Apply current pedagogical and administrative techniques of music at elementary and secondary school levels.
- Perform, improvise, and create in individual and collaborative settings with technique, musicality, and artistry.
- Demonstrate functional piano performance skills.

Vocal Major Option, Bachelor of Music Education Degree

Certification to teach vocal music in grades K-12.

Music Education, BME (45-441) (Vocal Option- odd year start plan) (4 Year Guide)

Music Education, BME (45-441) (Vocal Option- even year start plan) (4 Year Guide)

Major Requirements: 61.5-65.5 Semester Hours

- MUS 1000 - Recital Attendance (0) (7 semesters)
- MUS 1111 - Theory I (3) *
- MUS 1112 - Theory II (3)
- MUS 1121 - Aural Training I (1)
- MUS 1122 - Aural Training II (1)
- MUS 1225 - Music of the World's Cultures GE (3)
- MUS 1390 - Introduction to Music Education (2)
- MUS 1400 - Computer Music Notation (0.5)
- MUS 1450 - Audio and Acoustics GE (3)
- MUS 1610 - Voice I (1) (4)
- MUS 2111 - Theory III (3)
- MUS 2112 - Theory IV (3)
- MUS 2121 - Aural Training III (1)
- MUS 2122 - Aural Training IV (1)
- MUS 2300 - Fundamentals of Conducting (3)
- MUS 2631 - Diction for Singers I (1)
- MUS 3211 - Early Music (3)
- MUS 3212 - Music of the Common Practice Era GE (3)
- MUS 3310 - Choral Conducting (3)
- MUS 3610 - Voice II (1.5) (4.5)
- MUS 4130 - Choral Arranging (2)
- MUS 4230 - Choral Literature (3)
- MUS 4320 - Methods of Teaching Middle School Music (2)

- MUS 1410 - Fundamentals of Music Technology I : Hardware (0.5)
OR
- MUS 1420 - Fundamentals of Music Technology I : Software (0.5)

OR

- MUS 1615 - Opera Theatre (1-2) (1)

OR

- MUS 1620 - Musical Theatre Practicum (1-2) (1)
- Large vocal ensemble (7)
- Piano (Keyboard competency is demonstrated by passing MUS 2502 with a B or better or passing the piano proficiency exam.) (0-4)

Professional Education Requirements: 35 Semester Hours

Must earn a 3.00 GPA or higher with no grade lower than a C in Professional Education courses.

- EDFL 2100 - Introduction to the Teaching Profession (3)
 - EDFL 2250 - Introduction to English Language Learners and Culturally Responsive Pedagogy (2)
 - EDFL 4210 - Introduction to Content Area Literacy (2)
 - EDFL 4970 - Secondary Teaching and Behavioral Management (2)
 - EDSP 2100 - Education of the Exceptional Child (3)
 - FLDX 2150 - Introductory Field Experience (1)
 - FLDX 3000 - Field Experience in the Content Area (1)
 - FLDX 4970 - Field Experience II in the Content Area (1)
 - MUS 3305 - Methods of Teaching Elementary School Music (2)
 - MUS 3315 - Choral Techniques (3)
 - CFD 1220 - Child and Adolescent Development (3)
- OR**
- PSY 2220 - Child and Adolescent Psychological Development (3)
- OR**
- PSY 3220 - Life-Span Development (3)

Student Teaching Semester:

- FLDX 4468 - Student Teaching Secondary II (1-12) (4)
- FLDX 4495 - Student Teaching Elementary I (1-12) (5)
- MUS 4310 - Methods of Teaching Music (2) ¹⁰
- MUS 4350 - Secondary Field Experience II (1)

General Education Requirements: 36 Semester Hours

All students must complete a minimum of 42 credit hours in general education. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major:

- EDFL 2240 - Educational Psychology GE (3)
 - HIST 1350 - History of the United States to 1877 GE (3)
- OR**
- HIST 1351 - History of the United States from 1877 GE (3)

- MUS 1225 - Music of the World's Cultures GE (3)
- MUS 1450 - Audio and Acoustics GE (3)
- MUS 3212 - Music of the Common Practice Era GE (3)
- POLS 1510 - American Government GE (3)

Minimum Total: 132.5-136.5 Semester Hours

For additional certification to teach instrumental music with the VOCAL Major Option, B.M.E. Degree, see the school chair.

¹⁰Competency 10 course

*This course has a prerequisite not listed in the program if admission by examination is not sufficient.

NOTE: MUS 1210 - Experiencing Music GE (3) cannot be counted in the Music Degree Major courses or General Education courses for this degree.

Music Minor (483) (24 hours)

Minor for a Bachelor's Degree

UCM does not confer teacher certification for this minor.

Minor Requirements: 24 Semester Hours

- MUS 1000 - Recital Attendance (0) (4 semesters)
- 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 of the Common Practice Era GE (3)
- MUS 3211 - Early Music (3)
OR
- MUS 3213 - Music Since 1900 (3)
- Major instrument or voice (4)
- Major large ensemble (4)
- Approved electives (2)

Note:

*This course has a prerequisite not listed in the program if admission by examination is not sufficient.

Music, BA (42-436) (120 hours)

Major, Bachelor of Arts Degree

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

- Interpret and analyze music through historical, cultural, and theoretical study, and communicate findings in discipline-specific formats.
- Perform, improvise, and create in individual and collaborative settings with technique, musicality, and artistry.
- Integrate current technology and software applications in the study and practice of music and the sonic arts.

Music, BA (42-436) (4 Year Guide)

Major Requirements: 38-39 Semester Hours

- MUS 1000 - Recital Attendance (0) (6 semesters)
- 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 3211 - Early Music (3)
- MUS 3212 - Music of the Common Practice Era GE (3)
- MUS 3213 - Music Since 1900 (3)

- MUS 4000 - Special Projects in Music (0-3) (1-3) ¹⁰
OR
- MUS 4060 - Senior Recital (1-2) (2) ¹⁰
OR
- MUS 4430 - Seminar in Music Technology (2) ¹⁰
OR
- MUS 4514 - Piano Pedagogy IV - Seminar (3) ¹⁰

- 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 Semester Hours

General Education Requirement: 39 Semester Hours

All students must complete a minimum of 42 credit hours in general education. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major:

- MUS 1225 - Music of the World's Cultures GE (3)
- MUS 3212 - Music of the Common Practice Era GE (3)

Note:

MUS 1210 - Experiencing Music GE (3) cannot be counted in the Music Degree Major courses or General Education courses.

Major large ensembles cannot count toward General Education for the Music Major.

Modern Language Requirement: 6-9 Semester Hours

Refer to Bachelor's Degree Requirements section for fulfillment options.

Free Electives: 7-21 Semester Hours

Minimum Total: 120 Semester Hours

¹⁰Competency 10 course

*This course has a prerequisite not listed in the program if admission by examination is not sufficient.

Music, BM (44-472) - Instrumental Option (MU01) (120-120.5 hours)

Major, Bachelor of Music Degree

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

- Interpret and analyze music through historical, cultural, and theoretical study, and communicate findings in discipline-specific formats.
- Perform, improvise, and create in individual and collaborative settings with technique, musicality, and artistry.
- Integrate current technology and software applications in the study and practice of music and the sonic arts.
- Demonstrate functional piano performance skills.

Music offers six options within this program. While each option requires specific courses and number of hours, all students must complete the following 25-hour core set of courses as part of the B. M. degree. Students should consult with their success advisor to determine the unique requirements for each option.

Music, BM (44-472) - Instrumental Option (MU01) (odd year start plan) (4 Year Guide)

Music, BM (44-472) - Instrumental Option (MU01) (even year start plan) (4 Year Guide)

Major Requirements: 78-88.5 Semester Hours

Major Core Requirements: 19 Semester Hours

- MUS 1000 - Recital Attendance (0) (8 semesters, 7 for Music Technology)
- 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 3212 - Music of the Common Practice Era GE (3)

Instrumental Option: 60 Semester Hours

- MUS 2300 - Fundamentals of Conducting (3)
- MUS 3060 - Junior Recital (1)
- MUS 3211 - Early Music (3)
- MUS 3213 - Music Since 1900 (3)
- MUS 4060 - Senior Recital (1-2) (2) ¹⁰
- MUS 4125 - Form and Analysis (3)

- MUS 4240 - String Instrument Literature and Pedagogy (2)
OR
- MUS 4245 - Woodwind Instrument Literature and Pedagogy (2)
OR
- MUS 4250 - Brass Instrument Literature and Pedagogy (2)
OR
- MUS 4255 - Percussion Literature and Pedagogy (2)

- MUS 4101 - Counterpoint I (3)
OR
- MUS 4115 - Instrumentation (3)
OR
- MUS 4185 - Jazz-Commercial Arranging (3)

- Major instrument, 1000 level (8)
- Major instrument, 3000 level (12)
Minimum total of 20 hours in major instrument (1000 + 3000 level) will be met by applied music study on one instrument.
- Major large instrumental ensemble (6)
- Small instrumental ensemble (2)
- Electives in instrumental music (2)
- Other elective in music (10)

Note:

Keyboard Competency is demonstrated by passing MUS 2502 - Piano Class IV (1) with a grade of B or better, or passing the piano proficiency examination.

General Education Requirements: 39 Semester Hours

All students must complete a minimum of 42 credit hours in general education. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major:

- MUS 1225 - Music of the World's Cultures GE (3)
- MUS 3212 - Music of the Common Practice Era GE (3)

Free Electives: 0-5 Semester Hours

Minimum Total: 120 Semester Hours

¹⁰Competency 10 course

*This course has a prerequisite not listed in the program if admission by examination is not sufficient.

NOTE: MUS 1210 - Experiencing Music GE (3) cannot be counted in the Music Degree Major courses or General Education courses for this degree.

NOTE: Major large ensembles cannot count toward General Education for the Music Major.

Music, BM (44-472) - Jazz-Commercial Option (MU02) (120-120.5 hours)

Major, Bachelor of Music Degree

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

- Interpret and analyze music through historical, cultural, and theoretical study, and communicate findings in discipline-specific formats.
- Perform, improvise, and create in individual and collaborative settings with technique, musicality, and artistry.
- Integrate current technology and software applications in the study and practice of music and the sonic arts.
- Demonstrate functional piano performance skills.

Music offers six options within this program. While each option requires specific courses and number of hours, all students must complete the following 25-hour core set of courses as part of the B. M. degree. Students should consult with their success advisor to determine the unique requirements for each option.

Music, BM (44-472) - Jazz-Commercial Option (MU02) (odd year start plan) (4 Year Guide)

Music, BM (44-472) - Jazz-Commercial Option (MU02) (even year start plan) (4 Year Guide)

Major Requirements: 78-88.5 Semester Hours

Major Core Requirements: 19 Semester Hours

- MUS 1000 - Recital Attendance (0) (8 semesters, 7 for Music Technology)
- 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 3212 - Music of the Common Practice Era GE (3)

Jazz-Commercial Option: 67 Semester Hours

- MUS 1085 - Jazz-Rock Combo (1)
- MUS 1281 - History and Development of Jazz GE (3)
- MUS 1400 - Computer Music Notation (0.5)
- MUS 1450 - Audio and Acoustics GE (3)
- MUS 2141 - Composition I (3)
- MUS 2180 - Jazz Improvisation I (2)
- MUS 2181 - Jazz Improvisation II (2)
- MUS 2300 - Fundamentals of Conducting (3)
- MUS 3060 - Junior Recital (1)
- MUS 3213 - Music Since 1900 (3)
- MUS 4060 - Senior Recital (1-2) ¹⁰
- MUS 4125 - Form and Analysis (3)
- MUS 4185 - Jazz-Commercial Arranging (3)

- MUS 1410 - Fundamentals of Music Technology I : Hardware (0.5)
OR
- MUS 1420 - Fundamentals of Music Technology I : Software (0.5)
OR

- MUS 4181 - Advanced Jazz Improvisation (2) (taken 3 times)
OR
- MUS 4186 - Advanced Jazz-Commercial Arranging (2) (taken 3 times)

- Major instrument, 1000 level (8)
- Major instrument, 3000 level (12)
Minimum total of 20 hours in major instrument (1000 + 3000 level) will be met by applied music study on one instrument.
- Electives in music (2)

Major Large Jazz Ensemble Choices: 6 Semester Hours

- MUS 1081 - Jazz Ensemble 2 (1)
- MUS 4081 - Jazz Ensemble 1 (1)

Major Large Non-Jazz Ensemble Choices: 2 Semester Hours

- MUS 1005 - Marching Band (1)
- MUS 1010 - Symphonic Band (1)
- MUS 1055 - Collegiate Choir (1)
- MUS 4010 - Symphonic Wind Ensemble (1)
- MUS 4025 - University Symphony Orchestra (1: 1 lecture, 0 lab)
- MUS 4050 - University Concert Choir (1)
- MUS 4088 - Guitar Ensemble (1)

Electives in Music: 2 Semester Hours

Note:

Keyboard Competency is demonstrated by passing MUS 2502 - Piano Class IV (1) with a grade of B or better, or passing the piano proficiency examination.

General Education Requirements: 33 Semester Hours

All students must complete a minimum of 42 credit hours in general education. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major:

- MUS 1225 - Music of the World's Cultures GE (3)
- MUS 1281 - History and Development of Jazz GE (3)
- MUS 1450 - Audio and Acoustics GE (3)
- MUS 3212 - Music of the Common Practice Era GE (3)

Free Electives: 0-5 Semester Hours

Minimum Total: 120 Semester Hours

¹⁰Competency 10 course

*This course has a prerequisite not listed in the program if admission by examination is not sufficient.

NOTE: MUS 1210 - Experiencing Music GE (3) cannot be counted in the Music Degree Major courses or General Education courses for this degree.

NOTE: Major large ensembles cannot count toward General Education for the Music Major.

Music, BM (44-472) - Music Technology Option (MU03) (120-120.5 hours)

Major, Bachelor of Music Degree

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

- Interpret and analyze music through historical, cultural, and theoretical study, and communicate findings in discipline-specific formats.
- Perform, improvise, and create in individual and collaborative settings with technique, musicality, and artistry.
- Integrate current technology and software applications in the study and practice of music and the sonic arts.
- Demonstrate functional piano performance skills.

Music offers six options within this program. While each option requires specific courses and number of hours, all students must complete the following 25-hour core set of courses as part of the B. M. degree. Students should consult with their success advisor to determine the unique requirements for each option.

Music, BM (44-472) - Music Technology Option (MU03) (4 Year Guide)

Major Requirements: 78-88.5 Semester Hours

Major Core Requirements: 19 Semester Hours

- MUS 1000 - Recital Attendance (0) (7 for Music Technology)
- 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 3212 - Music of the Common Practice Era GE (3)

Music Technology Option: 68.5 Semester Hours

- MUS 1400 - Computer Music Notation (0.5)
- MUS 1410 - Fundamentals of Music Technology I : Hardware (0.5)
- MUS 1420 - Fundamentals of Music Technology I : Software (0.5)
- MUS 1450 - Audio and Acoustics GE (3) (must be taken the first term for Music Technology students)
- MUS 1470 - Fundamentals of Music Technology II (1)
- MUS 2400 - Sound Reinforcement and Music Production (3)
- MUS 2410 - Digital Audio Production (3)
- MUS 2420 - Technology Practicum (0) (2 semesters)
- MUS 3213 - Music Since 1900 (3)
- MUS 4040 - Music Business Practices (3)

- MUS 4115 - Instrumentation (3)
- MUS 4190 - Electronic Music Composition (3)
- MUS 4195 - Max and MSP (3)
- MUS 4400 - Audio for X (3)
- MUS 4410 - Electronic Music Production Techniques (3)
- MUS 4420 - Advanced Music Technology Practicum (0) (2 semesters)
- MUS 4430 - Seminar in Music Technology (2) (4) (2 semesters) ¹⁰
- MUS 4450 - Internship in Music Technology (1-6) (6)
- MUS 4470 - Advanced Audio Production (3)
- COMM 4130 - Audio for Digital Cinema (3)
- Major instrument or voice, 1000 level (4)
- Major large instrumental or vocal ensemble (4)
- Approved electives in music (6)

Electives in Music Academic Studies from the Following: 6 Semester Hours

- MUS 1220 - The Evolution of a Popular Art: An Introduction to Rock Music GE (3)
- MUS 1281 - History and Development of Jazz GE (3)
- MUS 3141 - Composition II (3)
- MUS 3211 - Early Music (3)
- MUS 4000 - Special Projects in Music (0-3) (3)
- MUS 4101 - Counterpoint I (3)
- MUS 4125 - Form and Analysis (3)
- MUS 4185 - Jazz-Commercial Arranging (3)

Note:

Keyboard Competency is demonstrated by passing MUS 2502 - Piano Class IV (1) with a grade of B or better, or passing the piano proficiency examination.

General Education Requirements: 33-36

All students must complete a minimum of 42 credit hours in general education. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major:

- MUS 1225 - Music of the World's Cultures GE (3)
- MUS 1450 - Audio and Acoustics GE (3)
- MUS 3212 - Music of the Common Practice Era GE (3)
- ECON 1010 - Principles of Macroeconomics GE (3)
- MUS 1220 - The Evolution of a Popular Art: An Introduction to Rock Music GE (3) (if chosen)
- OR**
- MUS 1281 - History and Development of Jazz GE (3) (if chosen)

Free Electives: 0-5 Semester Hours

Minimum Total: 120-120.5 Semester Hours

¹⁰Competency 10 course

*This course has a prerequisite not listed in the program if admission by examination is not sufficient.

NOTE: MUS 1210 - Experiencing Music GE (3) cannot be counted in the Music Degree Major courses or General Education courses for this degree.

NOTE: Major large ensembles cannot count toward General Education for the Music Major.

Music, BM (44-472) - Piano Option (MU04) (120-120.5 hours)

Major, Bachelor of Music Degree

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

- Interpret and analyze music through historical, cultural, and theoretical study, and communicate findings in discipline-specific formats.
- Perform, improvise, and create in individual and collaborative settings with technique, musicality, and artistry.
- Integrate current technology and software applications in the study and practice of music and the sonic arts.
- Demonstrate functional piano performance skills.

Music offers six options within this program. While each option requires specific courses and number of hours, all students must complete the following 25-hour core set of courses as part of the B. M. degree. Students should consult with their success advisor to determine the unique requirements for each option.

Music, BM (44-472) - Piano Option (MU04) (odd year start plan) (4 Year Guide)

Music, BM (44-472) - Piano Option (MU04) (even year start plan) (4 Year Guide)

Major Requirements: 78-88.5 Semester Hours

Major Core Requirements: 19 Semester Hours

- MUS 1000 - Recital Attendance (0) (8 semesters, 7 for Music Technology)
- 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 3212 - Music of the Common Practice Era GE (3)

Piano Option: 59 Semester Hours

- MUS 1095 - Keyboard Ensemble (1)
- MUS 1510 - Piano I (1) (8)
- MUS 2300 - Fundamentals of Conducting (3)
- MUS 2515 - Piano Accompanying (2)
- MUS 3060 - Junior Recital (1)
- MUS 3095 - Piano Accompanying Practicum (1)
- MUS 3211 - Early Music (3)
- MUS 3213 - Music Since 1900 (3)
- MUS 3510 - Piano II (1.5-3) (12)
- MUS 4060 - Senior Recital (1-2) (2) ¹⁰
- MUS 4125 - Form and Analysis (3)
- MUS 4201 - Piano Literature Through Beethoven (2)
- MUS 4202 - Piano Literature From the Romantic Era to the Present (2)
- MUS 4511 - Piano Pedagogy I - The Beginner (3)

- MUS 4101 - Counterpoint I (3)
OR
- MUS 4115 - Instrumentation (3)

- Electives in the area (4)

Major Large Instrument or Vocal Ensemble Choices: 6 Semester Hours

- MUS 1005 - Marching Band (1)
- MUS 1010 - Symphonic Band (1)
- MUS 1055 - Collegiate Choir (1)
- MUS 4010 - Symphonic Wind Ensemble (1)
- MUS 4025 - University Symphony Orchestra (1: 1 lecture, 0 lab)
- MUS 4050 - University Concert Choir (1)

General Education Requirements: 39 Semester Hours

All students must complete a minimum of 42 credit hours in general education. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major:

- MUS 1225 - Music of the World's Cultures GE (3)
- MUS 3212 - Music of the Common Practice Era GE (3)

Free Electives: 0-5 Semester Hours

Minimum Total: 120 Semester Hours

¹⁰Competency 10 course

*This course has a prerequisite not listed in the program if admission by examination is not sufficient.

NOTE: MUS 1210 - Experiencing Music GE (3) cannot be counted in the Music Degree Major courses or General Education courses for this degree.

NOTE: Major large ensembles cannot count toward General Education for the Music Major.

Music, BM (44-472) - Piano Pedagogy Option (MU05) (120-120.5 hours)

Major, Bachelor of Music Degree

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

- Interpret and analyze music through historical, cultural, and theoretical study, and communicate findings in discipline-specific formats.
- Perform, improvise, and create in individual and collaborative settings with technique, musicality, and artistry.
- Integrate current technology and software applications in the study and practice of music and the sonic arts.
- Demonstrate functional piano performance skills.

Music offers six options within this program. While each option requires specific courses and number of hours, all students must complete the following 25-hour core set of courses as part of the B. M. degree. Students should consult with their success advisor to determine the unique requirements for each option.

Music, BM (44-472) - Piano Pedagogy Option (MU05) (odd year start plan) (4 Year Guide)

Music, BM (44-472) - Piano Pedagogy Option (MU05) (even year start plan) (4 Year Guide)

Major Requirements: 78-88.5 Semester Hours

Major Core Requirements: 19 Semester Hours

- MUS 1000 - Recital Attendance (0) (8 semesters, 7 for Music Technology)
- 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 3212 - Music of the Common Practice Era GE (3)

Piano Pedagogy Option: 62.5 Semester Hours

- MUS 1510 - Piano I (1) (8)
- MUS 2300 - Fundamentals of Conducting (3)
- MUS 2515 - Piano Accompanying (2)
- MUS 3213 - Music Since 1900 (3)
- MUS 3510 - Piano II (1.5-3) (10.5)
- MUS 4060 - Senior Recital (1-2) (2) ¹⁰
- MUS 4101 - Counterpoint I (3)
- MUS 4125 - Form and Analysis (3)
- MUS 4201 - Piano Literature Through Beethoven (2)
- MUS 4202 - Piano Literature From the Romantic Era to the Present (2)
- MUS 4511 - Piano Pedagogy I - The Beginner (3)
- MUS 4512 - Piano Pedagogy II - The Intermediate Student (3)
- MUS 4513 - Piano Pedagogy III - The Advanced Student (3)
- MUS 4514 - Piano Pedagogy IV - Seminar (3)
- MUS 4515 - Practice Teaching in Piano (3) (6)

- MUS 1095 - Keyboard Ensemble (1)
- OR**
- MUS 3095 - Piano Accompanying Practicum (1)

Major Large Instrument or Vocal Ensemble Choices: 4 Semester Hours

- MUS 1005 - Marching Band (1)
- MUS 1010 - Symphonic Band (1)
- MUS 1055 - Collegiate Choir (1)
- MUS 4010 - Symphonic Wind Ensemble (1)
- MUS 4025 - University Symphony Orchestra (1: 1 lecture, 0 lab)
- MUS 4050 - University Concert Choir (1)

General Education Requirements: 39 Semester Hours

All students must complete a minimum of 42 credit hours in general education. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major:

- MUS 1225 - Music of the World's Cultures GE (3)
- MUS 3212 - Music of the Common Practice Era GE (3)
- PSY 1100 - General Psychology GE (3)

Free Electives: 0-5 Semester Hours

Minimum Total: 120 Semester Hours

¹⁰Competency 10 course

*This course has a prerequisite not listed in the program if admission by examination is not sufficient.

NOTE: MUS 1210 - Experiencing Music GE (3) cannot be counted in the Music Degree Major courses or General Education courses for this degree.

NOTE: Major large ensembles cannot count toward General Education for the Music Major.

Music, BM (44-472) - Vocal Option (MU06) (120-120.5 hours)

Major, Bachelor of Music Degree

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

- Interpret and analyze music through historical, cultural, and theoretical study, and communicate findings in discipline-specific formats.
- Perform, improvise, and create in individual and collaborative settings with technique, musicality, and artistry.
- Integrate current technology and software applications in the study and practice of music and the sonic arts.
- Demonstrate functional piano performance skills.

Music offers six options within this program. While each option requires specific courses and number of hours, all students must complete the following 25-hour core set of courses as part of the B. M. degree. Students should consult with their success advisor to determine the unique requirements for each option.

Music, BM (44-472) - Vocal Option (MU06) (odd year start plan) (4 Year Guide)

Music, BM (44-472) - Vocal Option (MU06) (even year start plan) (4 Year Guide)

Major Requirements: 78-88.5 Semester Hours

Major Core Requirements: 19 Semester Hours

- MUS 1000 - Recital Attendance (0) (8 semesters, 7 for Music Technology)
- 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 3212 - Music of the Common Practice Era GE (3)

Vocal Option: 60 Semester Hours

- MUS 1610 - Voice I (1) (8)
- MUS 1615 - Opera Theatre (1-2) (2)
- MUS 2300 - Fundamentals of Conducting (3)

- MUS 2631 - Diction for Singers I (1)
- MUS 2632 - Diction for Singers II (2)
- MUS 3060 - Junior Recital (1)
- MUS 3211 - Early Music (3)
- MUS 3213 - Music Since 1900 (3)
- MUS 3610 - Voice II (1.5) (12)
- MUS 4060 - Senior Recital (1-2) (2) ¹⁰
- MUS 4125 - Form and Analysis (3)
- MUS 4235 - Vocal Literature (3)
- MUS 4600 - Vocal Pedagogy (2)

- MUS 4101 - Counterpoint I (3)
OR
- MUS 4115 - Instrumentation (3)

- FREN 1202 - Elementary French II GE (3)
OR
- GER 1302 - Elementary German II GE (3)

- Major large vocal ensemble (6)
- Electives in music (3)

Note:

Keyboard Competency is demonstrated by passing MUS 2502 - Piano Class IV (1) with a grade of B or better, or passing the piano proficiency examination.

General Education Requirements: 33-36 Semester Hours

All students must complete a minimum of 42 credit hours in general education. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major:

- MUS 1225 - Music of the World's Cultures GE (3)
- MUS 3212 - Music of the Common Practice Era GE (3)

- FREN 1202 - Elementary French II GE (3)
OR
- GER 1302 - Elementary German II GE (3)

Free Electives: 0-5 Semester Hours

Minimum Total: 120 Semester Hours

¹⁰Competency 10 course

*This course has a prerequisite not listed in the program if admission by examination is not sufficient.

NOTE: MUS 1210 - Experiencing Music GE (3) cannot be counted in the Music Degree Major courses or General Education courses for this degree.

NOTE: Major large ensembles cannot count toward General Education for the Music Major.

Musical Theatre, BFA (47-586) (120 hours)

Major, Bachelor of Fine Arts Degree

The graduate with a Bachelor of Fine Arts degree with a major in Musical Theatre will use the knowledge and skills obtained in the program to:

- Communicate and collaborate effectively in the interactive and creative process of theatre, musical theatre and dance.
- 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, music and dance.
- Demonstrate technical proficiency in the area of acting in order to create and present theatrical performances.
- Demonstrate technical proficiency in the areas of dance as appropriate to musical theatre.
- Demonstrate thorough development in basic musical Demonstrate a strong repertory and techniques for auditions.

Musical Theatre, BFA (47-586) (4 Year Guide)

Major Requirements: 76 Semester Hours

- THEA 1100 - Oral Interpretation GE (3)
- THEA 1500 - Acting (3)
- THEA 1510 - Stage Movement (3)
- THEA 1520 - Stage Voice (3)
- THEA 1600 - Stagecraft (3)
- THEA 1610 - Stage Make-up (3)
- THEA 2610 - Design Fundamentals (3)
- THEA 3700 - Directing (3)
- THEA 4300 - Professional Practices (1-6)
- THEA 4430 - American Musical Theatre History (3) ¹⁰
- THEA 4500 - Advanced Acting (3)
- THEA 4510 - Period Acting Styles (3)
- THEA 4810 - Musical Theatre Laboratory (3)
- THEA 4910 - Senior Showcase (1)
- DANC 1130 - Tap Dance I (2)
- DANC 1140 - Jazz Dance I (2)
- DANC 3130 - Tap Dance II (2)
- DANC 3140 - Jazz Dance II (2)

- DANC 3210 - Musical Theatre Dance (3)
- DANC 4210 - Choreography I (3)
- MUS 1100 - Fundamentals of Music (3)
- MUS 1111 - Theory I (3)
- MUS 1121 - Aural Training I (1)
- MUS 1501 - Piano Class I (1)
- MUS 1502 - Piano Class II (1)
- MUS 1610 - Voice I (1) (4) (1 hour for a total of 4 hours)
- MUS 1615 - Opera Theatre (1-2)
- MUS 3610 - Voice II (1.5) (3) (1.5 hours for a total of 3 hours)

Select 4 Hours from the Following Courses: 4 Semester Hours

- DANC 1110 - Modern Dance I (2)
- DANC 1120 - Ballet Dance I (2)
- DANC 3110 - Modern Dance II (2)
- DANC 3120 - Ballet Dance II (2)

Select 3 Hours from 1 to 3 of the Following Courses: 3 Semester Hours

- MUS 1055 - Collegiate Choir (1)
- MUS 3070 - Women's Choir (1)
- MUS 3077 - Vocal Jazz Ensemble (1)
- MUS 4050 - University Concert Choir (1)

General Education Requirement: 36-39 Semester Hours

All students must complete a minimum of 42 credit hours in general education. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major:

- THEA 1100 - Oral Interpretation GE (3)

Free Electives: 5-8 Semester Hours

Minimum Total: 120 Semester Hours

¹⁰Competency 10 course

Speech Communication and Theatre Minor (BSE) (363) (21 hours)

Minor, Bachelor of Science in Education Degree (363)

Elementary education majors 1-6 may use this as an area of concentration.

Minor Requirements: 21 Semester Hours

- THEA 1500 - Acting (3)
- THEA 1600 - Stagecraft (3)
- THEA 3700 - Directing (3)
- COMM 2100 - Introduction to Communication Theory (3)
- COMM 2330 - Communication in Small Groups/Teams (3)
- COMM 2340 - Argumentation and Debate (3)
- Elective in THEA or COMM (3)

Studio Art, BFA (47-263) (120 hours)

Major, Bachelor of Fine Arts Degree

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

- Utilize reflective critical and creative thinking to produce innovative and skillful art and design work that integrates historical and contemporary art and design practice and theory.
- Effectively communicate and support artistically sensitive interpretations and evaluations of acclaimed and diverse historical and contemporary art and design works.
- Exhibit evidence of an understanding of the professional practices, safe and sustainable processes, and ethical standards for employment and long-term success in the graduate's degree program career field.

Studio Art, BFA (47-263) Ceramics Area (4 Year Guide)

Studio Art, BFA (47-263) Illustration Area (4 Year Guide)

Studio Art, BFA (47-263) Painting Area (4 Year Guide)

Studio Art, BFA (47-263) Printmaking Area (4 Year Guide)

Studio Art, BFA (47-263) Sculpture Area (4 Year Guide)

Studio Art, BFA (47-263) Photography Area (4 Year Guide)

Major Requirements: 84 Semester Hours

Core Art Courses: 57 Semester Hours

- ART 1110 - Drawing I (3)
- ART 1120 - Drawing II (3)
- ART 1211 - Photography I (3)
- ART 1315 - Foundation I (3: 0 lecture, 3 lab)
- ART 1325 - Foundation II (3: 0 lecture, 3 lab)
- ART 1815 - Art History Survey I GE (3)
- ART 1825 - Art History Survey II GE (3)
- ART 2412 - Ceramics I (3)
- ART 2420 - Sculpture I (3)

- ART 2511 - Painting I (3)
- ART 2710 - Printmaking I (3)
- ART 3221 - Art in Theory: Contemporary Practice (3)
- Electives in ART (15)

Choose Two of the following Art History Courses: 6 Semester Hours

- ART 1835 - Global Arts and Culture GE (3)
- ART 3680 - History of Graphic Design (3)
- ART 3800 - History of Furniture and Interiors I (3)
- ART 4850 - Twentieth Century Art and Architecture (3)
- ART 4860 - Contemporary Art and Design (3)

Elect One of the Following Areas of Specialization: 27 Semester Hours

Area 1 - Sculpture

- ART 3110 - Drawing III (3)
- ART 3209 - Figure Construction (3)
- ART 3420 - Sculpture II (3)
- ART 3440 - Sculpture III (3)
- ART 4020 - Studio Seminar (3) ¹⁰
- ART 4420 - Sculpture IV (3) (12)

Area 2 - Painting

- ART 3110 - Drawing III (3)
- ART 3209 - Figure Construction (3)
- ART 3510 - Watercolor (3)
- ART 3511 - Painting II (3) (3-9)
OR
- ART 3513 - Painting II: Plein Air (3) (3-9)
OR
- ART 3515 - Painting II: Figure (3) (3-9)
- ART 4511 - Painting III (3) (3-9) ¹⁰
OR
- ART 4513 - Painting III: Plein Air (3) (3-9) ¹⁰
OR
- ART 4515 - Painting III: Figure (3) (3-9) ¹⁰

Area 3 - Ceramics

- ART 3110 - Drawing III (3)
- ART 3209 - Figure Construction (3)
- ART 3412 - Ceramics II (3) (9)

- ART 4020 - Studio Seminar (3) ¹⁰
- ART 4412 - Ceramics III (3) (9)

Area 4 - Printmaking

- ART 3110 - Drawing III (3)
- ART 3209 - Figure Construction (3)
- ART 3710 - Printmaking II (3) (9)
- ART 3720 - Printmaking III (3) (9)
- ART 4020 - Studio Seminar (3) ¹⁰

Area 5 - Illustration

- ART 2610 - Introduction to Graphic Design and Illustration (3)
- ART 2620 - Typography (3)
- ART 3110 - Drawing III (3)
- ART 3209 - Figure Construction (3)
- ART 3625 - Illustration Techniques (3)
- ART 3635 - Illustration Concepts (3)
- ART 4020 - Studio Seminar (3) ¹⁰
- ART 4625 - Advanced Illustration I (3)
- ART 4635 - Advanced Illustration II (3)

Area 6 - Photography

- ART 2211 - Photography II (3)
- ART 3211 - Photography III (3)
- ART 4211 - Photography IV (3) (6)
- ART 4020 - Studio Seminar (3) ¹⁰
- MKT 3450 - Digital Marketing (3)
- PHOT 1230 - Digital Imaging (3)
- PHOT 2215 - History of Photography (3)
- Elective in ART (3)

General Education Requirement: 36 Semester Hours

All students must complete a minimum of 42 credit hours in general education. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major:

- ART 1815 - Art History Survey I GE (3)
- ART 1825 - Art History Survey II GE (3)

Minimum Total: 120 Semester Hours

¹⁰Competency 10 course

Theatre Minor (365) (23 hours)

Minor for a Bachelor's Degree

UCM does not confer teacher certification for this minor.

The graduate with a Bachelor's degree with a minor in Dance will use the knowledge and skills obtained in the program to:

- 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 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.

Minor Requirements: 23 Semester Hours

- THEA 1100 - Oral Interpretation GE (3)
- THEA 1400 - Script Analysis (3)
- THEA 1500 - Acting (3)
- THEA 1600 - Stagecraft (3)
- THEA 3700 - Directing (3)

- THEA 4400 - Literature and History of the Theatre I (3)
OR
- THEA 4420 - Literature and History of the Theatre II (3)

- Electives in theatre (5)

Theatre, BA (42-364) (120 hours)

Major, Bachelor of Arts Degree

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 mainstage and/or children's theatre series.

Theatre, BA (42-364) (4 Year Guide)

Major Requirements: 35 Semester Hours

- 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 - Literature and History of the Theatre I (3) ¹⁰

- THEA 3600 - Scene Design (3)
OR
- THEA 3610 - Costume Design (3)
OR
- THEA 3620 - Lighting Design (3)

- THEA 4420 - Literature and History of the Theatre II (3)
OR
- THEA 4440 - Literature and History of the Theatre III (3)

- Electives in theatre (3)

Minor Requirements: 18-25 Semester Hours

General Education Requirements: 39 Semester Hours

All students must complete a minimum of 42 credit hours in general education. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major:

- THEA 1100 - Oral Interpretation GE (3)
- Modern Language GE (3)

Modern Language Requirement: 6-9 Semester Hours

Refer to Bachelor's Degree Requirements section for fulfillment options.

Free Electives: 12-22 Semester Hours

Minimum Total: 120 Semester Hours

¹⁰Competency 10 course

Theatre, BFA (47-366) (120 hours)

Major, Bachelor of Fine Arts Degree

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 mainstage and/or children's theatre series.

Theatre, BFA (47-366) Performance Area (4 Year Guide)

Theatre, BFA (47-366) Design/Technology Area (4 Year Guide)

Major Requirements: 61-65 Semester Hours

Core Requirements: 28 Semester Hours

- THEA 1400 - Script Analysis (3)
- THEA 1500 - Acting (3)
- THEA 1600 - Stagecraft (3)
- THEA 2610 - Design Fundamentals (3)
- THEA 3700 - Directing (3)
- THEA 4300 - Professional Practices (1-6) (3)
- THEA 4310 - Principles of Theatre Management (3)
- THEA 4400 - Literature and History of the Theatre I (3) ¹⁰
- THEA 4910 - Senior Showcase (1)

- THEA 4420 - Literature and History of the Theatre II (3)
OR
- THEA 4440 - Literature and History of the Theatre III (3)

Choose either Performance or Design/Technology: 35-37 Semester Hours

Performance: 35 Semester Hours

- THEA 1510 - Stage Movement (3)
- THEA 1520 - Stage Voice (3)
- THEA 1610 - Stage Make-up (3)
- THEA 3500 - Advanced Scene Study (3)
- THEA 4500 - Advanced Acting (3)
- THEA 4510 - Period Acting Styles (3)
- THEA 4710 - Advanced Directing (3)
- THEA 4730 - Studio Theatre II (1)
- DANC 1140 - Jazz Dance I (2)

- DANC 1110 - Modern Dance I (2)
- OR**
- DANC 1120 - Ballet Dance I (2)

Elect 9 Hours from the Following Design/Tech. Courses: 9 Semester Hours

- THEA 2620 - Costume Technology (3)
- THEA 2630 - Drafting for the Theatre (3)
- THEA 3600 - Scene Design (3)
- THEA 3610 - Costume Design (3)
- THEA 3620 - Lighting Design (3)
- THEA 3630 - Studio Theatre I (1) (3)
- THEA 4600 - Advanced Technical Theatre (3)
- THEA 4610 - Advanced Stage Lighting and Sound (3)
- THEA 4620 - Period Research (3)

Design/Technology: 37 Semester Hours

- THEA 1610 - Stage Make-up (3)
- THEA 2620 - Costume Technology (3)
- THEA 2630 - Drafting for the Theatre (3)
- THEA 3600 - Scene Design (3)
- THEA 3610 - Costume Design (3)
- THEA 3620 - Lighting Design (3)
- THEA 3630 - Studio Theatre I (1)
- THEA 4600 - Advanced Technical Theatre (3)
- THEA 4610 - Advanced Stage Lighting and Sound (3)
- THEA 4620 - Period Research (3)

Elect 9 Hours from the Following Performance Courses: 9 Semester Hours

- THEA 1510 - Stage Movement (3)
- THEA 1520 - Stage Voice (3)
- THEA 3500 - Advanced Scene Study (3)
- THEA 4500 - Advanced Acting (3)
- THEA 4510 - Period Acting Styles (3)
- THEA 4710 - Advanced Directing (3)

- DANC 1110 - Modern Dance I (2)
- DANC 1120 - Ballet Dance I (2)
- DANC 1140 - Jazz Dance I (2)

General Education Requirement: 42 Semester Hours

All students must complete a minimum of 42 credit hours in general education. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major:

- THEA 1100 - Oral Interpretation GE (3)

Free Electives: 11-15 Semester Hours

Minimum Total: 120 Semester Hours

¹⁰Competency 10 course

College of Education

The College of Education
 Lovinger 2190
 660-543-4272
 Fax 660-543-4167
 ucmo.edu/ced

The College of Education is comprised of:

- School of Professional Education and Leadership
 - Occupational Education (BS); Agriculture Teacher Education, Business Teacher Education, Engineering and Technology Teacher Education, Family Consumer Sciences Teacher Education (BSE)
- School of Teaching and Learning
 - Early Childhood Birth-Grade 3; Elementary Education Grades 1-6; Middle School (Business, Engineering and Technology, General Science, Language Arts, Mathematics, Social Science, Speech/Theater); Special Education (Early Childhood, Cross-Categorical, Autism and Severe Disabilities); Physical Education K-12; Secondary Education 9-12 (Biology, Chemistry, Early Science, English, Mathematics, French, Spanish, Physics, Social Studies; Speech Communication and Theater)

Clinical Services and Certification
 Lovinger 2170
 660-543-8441
 Fax 660-543-8655
 ucmo.edu/cert

Click here for descriptions of all classes taught at the undergraduate level. Course descriptions can also be found online in MyCentral.

Teacher Education

In addition to the College of Education, Teacher Education students may also be enrolled in programs through the College of Arts, Humanities, and Social Sciences and the College of Health, Science, and Technology.

The University of Central Missouri's Teacher Education Programs are accredited by the Council for the Accreditation of Educator Preparation (CAEP). Many UCM educator preparation programs are also nationally recognized by their specialized professional associations.

Conceptual Framework Information

The philosophical underpinnings of the UCM reflective practice model are described in the Conceptual Framework of the Teacher Education Program.

Belief Statement

The Central educator is a competent, caring, reflective practitioner committed to the premise that all can learn.

Mission Statement

As a cornerstone of the institution since 1871, the University of Central Missouri's Teacher Education Program develops teachers and other school professionals who are well grounded in theory, display competence in content knowledge and instructional strategies, and possess the dispositions to ensure success for all learners. The Teacher Education Program prepares individuals as professional educators for an ever-changing, culturally diverse population. Faculty and candidates provide support and service to schools in meeting their present and future challenges by developing communities that learn through research and scholarly activities. Educator preparation is a campus-wide responsibility, a commitment that reflects the honor and worth of serving a vital profession.

Program Standards

All Teacher Education students seeking initial certification will be able to demonstrate the knowledge and skills obtained in the program to meet the candidate level of the Missouri Standards for Professional Educators listed below:

Standard #1 - Content Knowledge, Including Varied Perspectives, Aligned with Appropriate instruction: The teacher understands the central concepts, structures and tools of inquiry of the discipline(s) and creates learning experiences that make these aspects of subject matter meaningful and engaging for students.

Standard #2 - Student, Learning Growth and Development: The teacher understands how students learn, develop, and differ in their approaches to learning. The teacher provides learning opportunities that are adapted to diverse learners and support the intellectual, social, and personal development of all students.

Standard #3 - Curriculum Implementation: The teacher recognizes the importance of long-range planning and curriculum development. The teacher develops, implements, and evaluates curriculum based upon standards and student needs.

Standard #4 - Critical Thinking: The teacher uses a variety of instructional strategies to encourage students' development and critical thinking, problem solving, and performance skills including instructional resources.

Standard #5 - Positive Classroom Environment: The teacher uses an understanding of individual and group motivation and behavior to create a learning environment that encourages active engagement in learning, positive social interaction and self-motivation.

Standard #6 - Effective Communication: The teacher models effective verbal, nonverbal, and media communication techniques with students, colleagues and parents to foster active inquiry, collaboration, and supportive interaction in the classroom.

Standard #7 - Student Assessment and Data Analysis: The teacher understands and uses formative and summative assessment strategies to assess the learner's progress, uses assessment data to plan ongoing instruction, monitors the performance of each student and devises instruction to enable students to grow and develop.

Standard #8 - Professionalism: The teacher is a reflective practitioner who continually assesses the effects of choices and actions on others. The teacher actively seeks out opportunities to grow professionally in order to improve learning for all students.

Standard #9 - Professional Collaboration: The teacher has effective working relationships with students, parents, school colleagues and community members.

Policies and Procedures

Certification

The teacher certification program offered by UCM is accredited nationally by the Council for the Accreditation of Educator Preparation (CAEP) and also meets certification requirements set by the Missouri Department of Elementary and Secondary Education (DESE).

Initial teacher certification may be earned at UCM in part by completing the Bachelor of Science in Education degree, the Bachelor of Music Education degree, or in certain instances the Bachelor of Science or Bachelor of Arts degree. The degree earned does not automatically lead to certification. Students may apply for certification upon completion of degrees with major and minor programs that are designated as meeting Missouri certification guidelines. Initial teacher certification may also be obtained through a post-baccalaureate program. In addition, UCM offers an alternative program for certification for individuals with degrees not in education who are otherwise eligible for immediate employment in a teaching position. See the Director of Clinical Services and Certification for further information about both of these programs. The State of Missouri and UCM stipulate the following requirements for students seeking initial teacher certification:

1. admission to the UCM Teacher Education program;
2. admission to the professional education semester and student teaching;
3. a minimum cumulative grade point average of 2.75 (on a 4.00 scale) on all college work attempted prior to initial certification;
4. a minimum grade point average of 3.00 (on a 4.00 scale) in each initial certificate content area, and any additional area of endorsement;
5. a minimum grade point average of 3.00 for all professional education courses with no grade lower than C in any professional education course. Those courses designated as Professional Education Courses for educator certification purposes are designated by a book symbol in the catalog.
6. completion of all required assessments for their area of certification including required Missouri subject area assessment(s) with a score no lower than the minimum required for state licensure.

UCM offers undergraduate BSE, BME, BS, or BA degrees in the following majors, which lead to initial teacher certification:

Agriculture Teacher Education (9-12)
Art (K-12)
Biology (9-12)
Business Teacher Education (9-12)
Chemistry (9-12)

Business Teacher Education (9-12)
Family Consumer Sciences Teacher Education (B-12)
Earth Science (9-12)
Elementary Education Early Childhood (B-3)
Elementary Education Grades 1-6 (1-6)
Engineering and Technology Teacher Education (9-12)
English (9-12)
Mathematics (9-12)
Middle School - Junior High School (5-9)
Modern Languages, French (K-12)
Modern Languages, Spanish (K-12)
Music, Instrumental (K-12)
Music, Vocal (K-12)
Physical Education, Elementary-Secondary (K-12)
Physics (9-12)
Social Studies (9-12)
Special Education-Early Childhood Special Education (B-3)
Special Education-Cross-Categorical Disabilities (K-12)
Special Education-Autism & Severe Disabilities (B-12)
Speech Communication and Theatre (9-12)

UCM offers minor programs that may lead to certification. Please see your success advisor.

In addition UCM offers an added certification in Driver Education (9-12), ESOL (K-12), and Special Reading (K-12) requiring completion of a major teaching program.

NOTE: Many professional education courses include embedded field experience requirements. Check with your major department for specifics.

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, Bachelor of Arts, 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 many courses identified as PROFESSIONAL EDUCATION REQUIREMENTS (with the exception of the courses listed below) as well as those courses identified by the schools representing the major area of study in the preparation for teaching.

1. Apply for admission at ucmo.edu/cert and create an Educator Profile on DESE website at <https://k12apps.dese.mo.gov/webLogin/login.aspx>.
2. Provide evidence of having completed a minimum of 36 semester hours of college credit
3. Achieve a cumulative GPA of 2.75 or higher; content GPA of 3.00 or higher; and Professional Education GPA of 3.0 or higher with no grade lower than a C.
4. Complete the following courses with a grade of C or better:
 1. EDFL 2100 - Introduction to the Teaching Profession (3)
 2. FLDX 2150 - Introductory Field Experience (1)
 3. EDFL 2240 - Educational Psychology GE (3)
 4. EDSP 2100 - Education of the Exceptional Child (3)
5. Obtain school recommendation for admission to your major program (which may include additional program-specific requirements).
6. Pass a background check through the approved DESE agent.
7. Pass all four sections of the Missouri General Education Assessment (MoGEA).

Admission To The Professional Education Semester And Student Teaching

Approval for admission to the professional education semester, including student teaching, involves meeting the following minimum requirements:

1. Complete Admission to the Teacher Education Program.
2. Submit a completed Request to Student Teach for Undergraduate form by December 1 for the Fall Semester or May 1 for the Spring Semester. The application may be found at ucmo.edu/teach. Any application received by the Office of Clinical Services and Certification after the December 1 or May 1 due dates will be assessed an additional charge of \$100. No late application will be accepted after the last Preliminary Meeting for Student Teachers. Those meeting dates are posted in the semester calendars located on the ucmo.edu/teach website.
3. Complete all coursework prior to student teaching.
4. Achieve a cumulative GPA of 2.75 or higher; content GPA of 3.00 or higher; Professional Education GPA of 3.00 or higher with no grade lower than a C in any Professional Education course. Those courses designated as Professional Education courses for educator certification purposes are designated by a book symbol.
5. Obtain faculty recommendation in each area of student teaching, from each school or certification area in which student teaching placement is requested.
6. Obtain a TB test, a doctor's certificate or other evidence of good health, IF required by district where student teaching placement is requested.
7. Meet the UCM Residence requirements prior to student teaching, as described in the UCM Undergraduate catalog - Standards and Regulations.
8. Possess a current background check, on file with DESE.
9. Take the required Pearson Content Exam required by Missouri for your area of certification. Designate UCM to receive your scores electronically; your application for certification cannot be processed without receipt of your official score report.

NOTE: The Director of Clinical Services and 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.

Requirements for Early Childhood, Elementary, Middle School, Special Education, Secondary Education (9-12), B-12 Education and K-12 Education

Bachelor of Arts, Bachelor of Science, Bachelor of Science in Education and the Bachelor of Music Education degree programs include recommended general education courses, major or content courses, and professional education courses as part of the degree requirements. Majors and minors leading to certification to teach are listed in the respective schools in this catalog. Please consult with your success advisor and faculty mentors early and often to determine course sequencing and to stay on track with your four-year plan. DESE requirements for certification, including state-wide required assessments are under development and may change. During the transition period, requirements for graduation and certification may vary, dependent upon your catalog year and the date you will complete all of your certification requirements. Updates will be available through your success advisor, faculty advisor, and the Office of Certification and Student Teaching. Please watch your UCM email for information from these offices.

Clinical Experiences for Teacher Education Students

UCM's education majors participate in field experiences with one or more of the Teacher Education program's primary partners. The Teacher Education Program has formal partnership agreements with many school districts in Missouri and many of the public school faculty from the districts serve as clinical faculty for UCM. Education students are required to participate in early and midlevel field/clinical experiences prior to student teaching. All education majors enroll in a ten hour block of educational foundations courses to gain

their early field experience, typically taken at the sophomore level. The field experience portion of this block is incorporated in FLDX 2150 - Introductory Field Experience (1) and placements in partner schools are arranged by the office of Clinical Services. Clinical Pathway early childhood and elementary majors have more than 100 hours of practicum each semester at the junior level followed by a full senior year in one school, including a part-time and then a full-time student teaching experience. Early childhood majors also have experiences with infant/toddler and preK age groups, and Blended Pathway students experience a senior block that includes one full day of practicum each week in a partner school. Middle school majors have additional field experience in MLED 4130 - Fundamentals of Middle Level Education (4), MLED 4135 - Middle Level Curriculum and Assessment (4) and MLED 4340 - The Engaging Middle Level Classroom (4). Secondary majors, after FLDX 2150 - Introductory Field Experience (1), complete their second field experience in FLDX 3000 - Field Experience in the Content Area (1), and then FLDX 4970 - Field Experience II in the Content Area (1) is the third field experience in the major field which is offered in conjunction with the special methods course during the Professional Education Semester.

Professional Education Semester

Early childhood, elementary and middle school majors using this catalog are required to student teach for 16 weeks, earning 12 semester hours during the Professional Education Semester. Majors in special education using this catalog are required to student teach for 16 weeks, 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 for English and Speech/theater majors consists of two parts, four weeks on campus in 3 semester hours of course work and twelve weeks of student teaching (all day, five days a week in a school setting). Secondary, B-12 and K-12 majors customarily enroll in Secondary Field Experience II in their major field and FLDX 4595 and FLDX 4468. See the appropriate program listing any variations in this requirement. Students following programs not clearly covered by these general statements or the 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 of all professional education seminar activities is required

School of Professional Education and Leadership

Administrative Support Minor (548) (15 hours)

Minor for a Bachelor's Degree

UCM does not confer teacher certification for this minor.

Minor Requirements: 15 Semester Hours

- BTE 2560 - Organizational Administration and Event Planning (3)
 - BTE 4535 - Data Input Technologies (2)
 - BTE 4550 - Publishing Applications for Business (2)
 - BTE 4560 - Emerging Technologies for Business (2)
 - ACCT 1101 - Foundations of Financial Reporting (3)

 - BTE 3110 - Consumer Finance and Economics (3)
- OR**
- FIN 1820 - Personal Finance GE (3)

Note:

*This course has a prerequisite not listed in the program; click on the course number for additional requirements.

Business Teacher Education Minor (284) (19 hours)

Minor for a Bachelor's Degree

Minor Requirements: 19 Semester Hours

- ACCT 1101 - Foundations of Financial Reporting (3)
- BTE 3110 - Consumer Finance and Economics (3)
- BTE 4210 - Methods of Teaching Business and Marketing Education (3)
- BTE 4241 - Coordination of Cooperative Education Programs (3)
- BTE 4280 - Implementing Business and Marketing Education (3)
- BTE 4535 - Data Input Technologies (2)
- BTE 4560 - Emerging Technologies for Business (2)

Career and Technical Education Certificate (10-864) (17-18 hours)

Certificate

The graduate with a Certificate in Career and Technical Education will use the knowledge and skills obtained in the program to:

- Meet the Missouri Teacher Standards (MTS) at the introductory level or above.
- Develop a thorough understanding of instructional materials and their development.
- Produce and implement authentic student assessments.
- Disaggregate assessment data for improved student learning and performance in the 3 primary domains of learning; cognitive, psychomotor, and affective.
- Learn methods and techniques for teaching CTE students, including exceptional children.
- Become effective CTE classroom and laboratory managers.
- Assist CTE students prepare for college and/or career readiness.

Required Courses: 17-18 Semester Hours

Students must select one path to completion from the choices below:

Area 1:

- CTE 4145 - Curriculum Construction in Career and Technical Education (3)
- CTE 4160 - Methods of Teaching Career and Technical Education (3)
- CTE 4165 - Performance Assessment in Career and Technical Education (3)
- EDSP 2100 - Education of the Exceptional Child (3)

- CTE 4150 - Vocational Guidance (3)

OR

- BTE 4241 - Coordination of Cooperative Education Programs (3)
- CTE 4110 - Foundations of Career & Technology Education (3)
OR
- CTE 4140 - New Teacher Institute (3)

Area 2:

- CTE 4100 - CTTE 1 - Curriculum & Assessment (3)
- CTE 4120 - CTTE 2 - Curriculum & Methods (1)
- CTE 4130 - CTTE 3 - Curriculum, Methods, & Planning (2)
- CTE 4210 - CTTE 4 - Current Topics in CTE (2)
- CTE 4220 - CTTE 5 - Management, Guidance, & Special Needs (2)
- CTE 4230 - CTTE 6 - Work & Project Based Learning (2)
- CTE 4240 - CTTE 7 - College and Career Readiness (2)
- CTE 4110 - Foundations of Career & Technology Education (3)
OR
- CTE 4140 - New Teacher Institute (3)

Educational Studies and Training, BS (43-675) (120 hours)

Major, Bachelor of Science Degree

This traditional program or "2+2" program (building on an Associate Degree) allows students to apply educational concepts to traditional or alternative educational or training settings. UCM does not confer teacher certification for this major.

The graduate with a Bachelor of Science in Educational Studies & Training will use the knowledge and skills obtained in the program to:

- Use oral and written communication skills to create, express, and interpret information and ideas including technical information and terminology for diverse audiences.
- Utilize fundamental knowledge of subject matter to plan/prepare effective instruction.
- Employ assessment/evaluation tools in learning settings to advance learner achievement and adjust learning plans.
- Employ instructional strategies in a learning setting to advance learning.

Educational Studies and Training, BS (43-675) (4 Year Guide)

Major Requirements: 39 Semester Hours

Major Core Requirements: 15 Semester Hours

Students must select at least one course from each of the 5 core areas to meet a minimum total of 15 Semester Hours.

Core Area 1 - Curriculum: 1-4 Semester Hours

Students must choose at least 1 course from this section.

- CTE 4120 - CTTE 2 - Curriculum & Methods (1)
- CTE 4145 - Curriculum Construction in Career and Technical Education (3)
- CTE 4230 - CTTE 6 - Work & Project Based Learning (2)
- ECEL 3320 - Literacy and Communication Arts for the Intermediate Learner (2)
- ECEL 3520 - Social Studies and Economics for the Intermediate Learner (1)
- ECEL 3620 - Science for the Intermediate Learner (1)
- ECEL 3820 - Mathematics for the Intermediate Learner (2)
- ECEL 3830 - Early Childhood Curriculum (3)
- EDFL 4240 - Integrated English Language Arts Curriculum & Assessment for Middle Level Learners: Block Four (4)
- EDSP 4330 - Curriculum and Methods for Teaching Students with Autism and Severe Developmental Disabilities I (3)
- EDSP 4421 - Methods of Cross-Categorical Special Education I: Intellectual Disabilities/Other Health Impairments (3)
- EDSP 4440 - Curriculum and Methods for Teaching Early Childhood Special Education (3)
- MLED 4135 - Middle Level Curriculum and Assessment (4)

Core Area 2 - Instructional Strategies: 1-3 Semester Hours

Students must choose at least 1 course from this section.

- BTE 4210 - Methods of Teaching Business and Marketing Education (3)
- CTE 4130 - CTTE 3 - Curriculum, Methods, & Planning (2)
- CTE 4160 - Methods of Teaching Career and Technical Education (3)
- CTE 4180 - Adult Education and Training (3)
- CTE 4240 - CTTE 7 - College and Career Readiness (2)
- ECEL 3310 - Literacy and Communication Arts for the Young Learner (2)
- ECEL 3510 - Social Studies and Economics for the Young Learner (1)
- ECEL 3610 - Science for the Young Learner (1)
- ECEL 3810 - Mathematics for the Young Learner (2)
- EDFL 3210 - Methods of Reading Instruction (3)
- EDFL 4235 - Methods of Teaching Middle Level English Language Arts (3)
- EDSP 4210 - Teaching Emergent and At-Risk Readers (3)
- EDSP 4420 - Methods of Cross-Categorical Special Education (3)
- EDSP 4422 - Methods of Cross Categorical Disabilities II: Learning Disabilities (3)
- EDSP 4450 - Curriculum and Methods for Teaching Students with Autism and Severe Developmental Disabilities II (3)
- FCSE 4740 - Methods of Teaching Family and Consumer Sciences (3)

Core Area 3 - Assessment: 1-3 Semester Hours

Students must choose at least 1 course from this section.

- CTE 4100 - CTTE 1 - Curriculum & Assessment (3)
- CTE 4165 - Performance Assessment in Career and Technical Education (3)
- ECEL 4120 - Curriculum Design and Assessment (3)
- ECEL 4800 - Curriculum Design and Assessment in Mathematics (2)

- EDFL 4300 - Educational Assessment and Evaluation (2)
- EDFL 4974 - Content Specific Assessment (1)
- EDSP 4620 - Evaluation of Abilities and Achievement (3)

Core Area 4 - Classroom Management: 1-4 Semester Hours

Students must choose at least 1 course from this section.

- CTE 4220 - CTTE 5 - Management, Guidance, & Special Needs (2)
- CTE 4973 - CTE Classroom and Lab Management Techniques (1)
- ECEL 4400 - Classroom Management and Interactions (3)
- EDFL 4970 - Secondary Teaching and Behavioral Management (2)
- EDFL 4973 - Classroom Management in Content Areas (1)
- EDSP 4360 - Behavioral Management Techniques (2)
- MLED 4340 - The Engaging Middle Level Classroom (4)

Core Area 5 -Practicum/ Internship: 1-3 Semester Hours

Students must choose at least 1 course from this section.

- CTE 4022 - Teaching/Administration Intern (1-3) 10
- ECEL 3150 - Early Childhood Practicum (2)
- ECEL 3151 - Young Learner Practicum (Grades 1-3) (2)
- ECEL 3152 - Intermediate Learner Practicum (Grades 4-6) (2)
- EDSP 4361 - Practicum in Behavioral Management Techniques (1)
- FLDX 2150 - Introductory Field Experience (1)
- FLDX 3000 - Field Experience in the Content Area (1)
- FLDX 4970 - Field Experience II in the Content Area (1)

Educational or Training Specialty Area: 24 Semester Hours

Educational or Training content area courses or other approved technical electives from Career & Technical Education, Military Education & Training, Industry Training, or Pre-K-12 Educational Studies.

General Education Requirement: 42 Semester Hours

All students must complete a minimum of 42 credit hours in general education. Some majors require additional hours due to required coursework. See The General Education Program Requirements for full listing of requirements. The following general education classes are recommended by this major:

- CTE 2000 - Technology and Society GE (3) (recommended)
- CTE 3116 - Creative Thinking for a Better World GE (3) (recommended)
- EDFL 2240 - Educational Psychology GE (3) (recommended)
- CTE 3060 - Technical Writing GE (3) (recommended)
- **OR**
- ENGL 1030 - Composition II GE (3) (recommended)

Free Electives: 39 Semester Hours

Minimum Total: 120 Semester Hours

¹⁰Competency 10 course

Family and Consumer Sciences Minor (850) (22 hours)

Minor for a Bachelor's Degree

Middle school-junior high school major.

Minor Requirements: 18 Semester Hours

- CFD 1220 - Child and Adolescent Development (3)
- CFD 3230 - Family Systems and Lifespan Development (3)
- FCSE 3120 - Family Resource Management (3)

- BTE 3110 - Consumer Finance and Economics (3)
OR
- FIN 1820 - Personal Finance GE (3)

- D&N 3340 - Nutrition (3) *
OR
- FOOD 2322 - Food Preparation (3: 2 lecture, 1 lab) *

- FAME 1450 - Fundamentals of Apparel Design and Construction (3: 2 lecture, 1 lab)
OR
- FAME 2442 - Textile Science (3)

Note:

* CHEM 1104 (4) with a grade of C or better is the prerequisite for both D&N 3340 and FOOD 2322.

Instructional Technology Minor (287) (21 hours)

Minor for a Bachelor's Degree

UCM does not confer teacher certification for this minor. Preparation for teaching computer/technology literacy in schools.

Minor Requirements: 21 Semester Hours

- CTE 2000 - Technology and Society GE (3)
- INST 4100 - Integrating Technology into Teaching (3)

- INST 4110 - Google Educator Prep (3)
- INST 4120 - Google Education Trainer Prep (2)
- INST 4300 - Principles of Online Instruction (3)
- INST 4310 - Fund Development for Educational Technology (1)
- INST 4330 - Technology Troubleshooting for Educators (2)
- INST 4400 - Design and Production of Media for Instruction (3)
- INST 4920 - Practicum in Instructional Technology (1)

Technology & Engineering Education Minor (BSE) (622) (21 hours)

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

Minor Requirements: 21 Semester Hours

- CTE 1300 - Introduction to Engineering Design (3)
- CTE 1500 - Gateway to Engineering (3)
- CTE 2000 - Technology and Society GE (3)
- ENGT 1510 - Introduction to Manufacturing Processes (3: 2 lecture, 1 lab)
- CTE 3116 - Creative Thinking for a Better World GE (3)
- SOT 3022 - Internship in Technology (1-6) (3)
- Approved elective (3)

School of Teaching and Learning

School of Teaching and Learning
Lovinger 3300
660-543-4235

Coaching Minor (731) (22 hours)

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.

Minor Requirements: 22 Semester Hours

- KIN 1800 - Functional Anatomy (3)
- PE 2100 - Foundations and Philosophy of Teaching Physical Education (3)
- PE 4550 - Introduction to Coaching (3)
- PE 4551 - Fundamental Techniques in Coaching (3)
- PE 4561 - Coaching Practicum (1)

- PE 4740 - Legal Liability in Fitness/Wellness, Physical Education, Recreation and Sport Settings (2)
- AT 3610 - Care and Prevention of Injuries (3)
- HLTH 4330 - First Aid and CPR (1)

- KIN 2900 - Essentials of Personal Training (3)
- OR**
- PE 3310 - Analysis and Teaching of Physical Training (3)

Early Childhood Education - Minor (BSE) (723) (17 hours)

Minor, Bachelor of Science in Education Degree

Available only to candidates pursuing a Bachelor of Science in Education degree.

Minor Requirements Clinical Pathway: 17 Semester Hours

- CFD 3250 - Organization and Administration of Programs for Young Children (3)
- ECEL 2830 - Early Childhood Principles and Observation (3)
- EDSP 3150 - Community and Family Resources (2)
- EDSP 3151 - Community and Family Resources Practicum (1)

Junior Block I: Methods for the Early Learner (PreK-K): 8 Semester Hours

- ECEL 3150 - Early Childhood Practicum (2)
- ECEL 3830 - Early Childhood Curriculum (3)
- ECEL 3850 - Development and Learning Through Play (3)

Early Childhood Special Education Minor (668) (15 hours)

We encourage all teacher education majors who have a willingness to work with a diverse population of young children with special needs to declare an Early Childhood Special Education minor. This minor provides sufficient coursework to enable the candidate to add on Early Childhood Special Education teaching certification after completion of the BSE degree and initial teacher certification. All courses in the minor require the prerequisite course EDSP 2100 for enrollment.

Minor Requirements: 15 Semester Hours

- EDSP 4210 - Teaching Emergent and At-Risk Readers (3)
 - EDSP 4320 - Introduction to Early Childhood Special Education (3)
 - EDSP 4360 - Behavioral Management Techniques (2)
 - EDSP 4361 - Practicum in Behavioral Management Techniques (1)
 - EDSP 4370 - Screening, Diagnosing and Prescribing Instruction (3)
 - EDSP 4440 - Curriculum and Methods for Teaching Early Childhood Special Education (3) *
- * Requires admission to Teacher Education Program for enrollment

Elementary Education - Early Childhood Birth-Grade 3, BSE (41-286) (124 hours)

Major, Bachelor of Science in Education Degree

Teacher Education programs in the School of Teaching and Learning are accredited by the Council for the Accreditation of Educator Preparation (CAEP) and the Missouri Department of Elementary and Secondary Education (DESE). The BSE in Elementary Education includes two options. The Early Childhood Education option leads to Missouri teaching certification for Birth-Grade 3. The Elementary Education Grades 1 -6 option leads to Missouri teaching certification for grades 1 - 6.

The junior and senior levels in the program are field-based blocks which integrate core content (language arts/literacy, mathematics, science, and social studies). All courses are listed as corequisites and are embedded within the context of practice in a UCM Partner School. Students who need to fulfill a part of a block need to consult with a faculty advisor.

Students must earn at least a C grade in all Professional Education courses.

Certification to teach early childhood education, Birth-Grade 3.

Elementary Education - Early Childhood Birth-Grade 3, BSE (41-286) (4 Year Guide)

The graduate with a Bachelor of Science in Elementary Education, Early Childhood Birth-Grade 3 option will apply knowledge and skills obtained in the program to:

- Promote child development and learning while building family and community relationships.
- Observe, document, and assess to support young children and families.
- Use content knowledge, appropriate pedagogy, and dispositions to build meaningful curriculum using developmentally effective approaches.

Major Requirements Clinical Pathway: 58 Semester Hours

Junior Block I: Methods for the Early Learner (preK-K): 8 Semester Hours

- ECEL 3150 - Early Childhood Practicum (2)
- ECEL 3830 - Early Childhood Curriculum (3)
- ECEL 3850 - Development and Learning Through Play (3)

Junior Block II: Methods for the Young Learner (grades 1-3): 8 Semester Hours

- ECEL 3151 - Young Learner Practicum (Grades 1-3) (2)
- ECEL 3310 - Literacy and Communication Arts for the Young Learner (2)
- ECEL 3510 - Social Studies and Economics for the Young Learner (1)
- ECEL 3610 - Science for the Young Learner (1)
- ECEL 3810 - Mathematics for the Young Learner (2)

Senior Block I: Senior Experience: 13 Semester Hours

- ECEL 4120 - Curriculum Design and Assessment (3)
- ECEL 4140 - Communication Arts Integration (5)
- ECEL 4400 - Classroom Management and Interactions (3)
- ECEL 4800 - Curriculum Design and Assessment in Mathematics (2)

Non-Block Courses: 29 Semester Hours

- CFD 3250 - Organization and Administration of Programs for Young Children (3)
- ECEL 2830 - Early Childhood Principles and Observation (3)
- ECEL 2510 - Concepts in Elementary Social Studies I (3)
- ECEL 2610 - Life & Earth Science for Teachers (3)
- ECEL 2850 - Integration of Arts & Movement in Early Childhood and Elementary Classrooms (3)
- ECEL 2900 - Technology in Education Seminar I (1)
- ECEL 2901 - Technology in Education Seminar II (1)
- ECEL 3225 - Acquisition of Language and Literacy (3)
- ECEL 3468 - Community, School and Family Connections (3)
- EDSP 3150 - Community and Family Resources (2)
- EDSP 3151 - Community and Family Resources Practicum (1)
- MATH 2820 - Elementary Mathematics from an Advanced Perspective (3)

Professional Education Requirements: 27 Semester Hours

Must earn a 3.00 GPA or higher with no grade lower than a C in Professional Education courses.

- ECEL 4400 - Classroom Management and Interactions (3)
- EDFL 2100 - Introduction to the Teaching Profession (3)
- EDFL 2240 - Educational Psychology GE (3)
- EDFL 2250 - Introduction to English Language Learners and Culturally Responsive Pedagogy (2)
- EDSP 2100 - Education of the Exceptional Child (3)
- FLDX 2150 - Introductory Field Experience (1)
- CFD 1220 - Child and Adolescent Development (3)

- PSY 2220 - Child and Adolescent Psychological Development (3)
- OR**
- PSY 3220 - Life-Span Development (3)

Student Teaching

- FLDX 4493 - Student Teaching Early Childhood (1-12) (6)
- FLDX 4496 - Student Teaching Elementary II (1-12) (6) ¹⁰

General Education Requirement: 39 Semester Hours

All students must complete a minimum of 42 credit hours in general education. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major:

- ECEL 2110 - Diversity and Social Justice GE (3)
- EDFL 2240 - Educational Psychology GE (3)
- HIST 1350 - History of the United States to 1877 GE (3)
- **OR**
- HIST 1351 - History of the United States from 1877 GE (3)
- MATH 1620 - Introduction to Geometry and Decision Making for Educators GE (3)
- MATH 1820 - Introduction to Numbers and Operations for Educators GE (3)
- POLS 1510 - American Government GE (3)

Minimum Total: 124 Semester Hours

¹⁰Competency 10 course

Elementary Education - Grades 1-6, BSE (41-285) (124 hours)

Major, Bachelor of Science in Education Degree

Teacher Education programs in the School of Teaching and Learning are accredited by the Council for the Accreditation of Educator Preparation (CAEP) and the Missouri Department of Elementary and Secondary Education (DESE). The BSE in Elementary Education includes two options. The Early Childhood Education option leads to Missouri teaching certification for Birth-Grade 3. The Elementary Education Grades 1 -6 option leads to Missouri teaching certification for grades 1 - 6.

The junior and senior levels in the program are field-based blocks which integrate core content (language arts/literacy, mathematics, science, and social studies). All courses are listed as corequisites and are embedded within the context of practice in a UCM Partner School. Students who need to fulfill a part of a block need to consult with a faculty advisor.

Students must earn at least a C grade in all Professional Education courses.

Certification to teach elementary in grades 1-6.

Elementary Education, BSE (41-285) (Grades 1 - 6 Option) (4 Year Guide)

The graduate with a Bachelor of Science in Elementary Education, Grades 1-6 option will apply knowledge and skills obtained in the program to:

- Demonstrate and apply understandings of major concepts, skills, and practices, as they interpret disciplinary curricular standards and related expectations within and across literacy, mathematics, science, and social studies for grades K-6.
- Plan and adapt instructional sequences and justify their selection of goals, assessments and instructional strategies to promote student learning.
- Deliver instruction using a variety of effective instructional practices guided by knowledge of children and assessment of students' learning.
- Demonstrate effective classroom management strategies and engagement techniques to promote student learning.

Major Requirements Clinical Pathway: 58 Semester Hours

Junior Block II: Methods for the Young Learner (Grades 1-3): 8 Semester Hours

- ECEL 3151 - Young Learner Practicum (Grades 1-3) (2)
- ECEL 3310 - Literacy and Communication Arts for the Young Learner (2)
- ECEL 3510 - Social Studies and Economics for the Young Learner (1)
- ECEL 3610 - Science for the Young Learner (1)
- ECEL 3810 - Mathematics for the Young Learner (2)

Junior Block III: Methods for the Intermediate Learner (Grades 4-6): 8 Semester Hours

- ECEL 3152 - Intermediate Learner Practicum (Grades 4-6) (2)
- ECEL 3320 - Literacy and Communication Arts for the Intermediate Learner (2)
- ECEL 3520 - Social Studies and Economics for the Intermediate Learner (1)
- ECEL 3620 - Science for the Intermediate Learner (1)
- ECEL 3820 - Mathematics for the Intermediate Learner (2)

Senior Block I: Senior Experience: 13 Semester Hours

- ECEL 4120 - Curriculum Design and Assessment (3)
- ECEL 4140 - Communication Arts Integration (5)
- ECEL 4400 - Classroom Management and Interactions (3)
- ECEL 4800 - Curriculum Design and Assessment in Mathematics (2)

Non-Block Courses: 29 Semester Hours

- ECEL 2510 - Concepts in Elementary Social Studies I (3)
- ECEL 2520 - Concepts in Elementary Social Studies II (3)
- ECEL 2610 - Life & Earth Science for Teachers (3)
- ECEL 2620 - Physical Science and Engineering Design for Teachers (3)
- ECEL 2850 - Integration of Arts & Movement in Early Childhood and Elementary Classrooms (3)
- ECEL 2900 - Technology in Education Seminar I (1)
- ECEL 2901 - Technology in Education Seminar II (1)
- ECEL 3225 - Acquisition of Language and Literacy (3)
- ECEL 3468 - Community, School and Family Connections (3)
- EDFL 3410 - Children's Literature (3)
- MATH 2820 - Elementary Mathematics from an Advanced Perspective (3)

Professional Education Requirements: 27 Semester Hours

Must earn a 3.00 GPA or higher with no grade lower than a C in Professional Education courses.

- ECEL 4400 - Classroom Management and Interactions (3)
- EDFL 2100 - Introduction to the Teaching Profession (3)
- EDFL 2240 - Educational Psychology GE (3)

- EDFL 2250 - Introduction to English Language Learners and Culturally Responsive Pedagogy (2)
- EDSP 2100 - Education of the Exceptional Child (3)
- FLDX 2150 - Introductory Field Experience (1)
- CFD 1220 - Child and Adolescent Development (3)

- PSY 2220 - Child and Adolescent Psychological Development (3)
- **OR**
- PSY 3220 - Life-Span Development (3)

Student Teaching Semester:

- FLDX 4495 - Student Teaching Elementary I (1-12) (6)
- FLDX 4496 - Student Teaching Elementary II (1-12) (6) ¹⁰

General Education Requirements for Area 1: 39 Semester Hours

All students must complete a minimum of 42 credit hours in general education. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major:

- ECEL 2110 - Diversity and Social Justice GE (3)
- EDFL 2240 - Educational Psychology GE (3)

- HIST 1350 - History of the United States to 1877 GE (3)
- **OR**
- HIST 1351 - History of the United States from 1877 GE (3)

- MATH 1620 - Introduction to Geometry and Decision Making for Educators GE (3)
- MATH 1820 - Introduction to Numbers and Operations for Educators GE (3)
- POLS 1510 - American Government GE (3)

Minimum Total: 124 Semester Hours

¹⁰Competency 10 course

Middle School-Junior High School, BSE (41-840) (120 hours)

Major, Bachelor of Science in Education Degree

Certification to teach grades 5-9, in a subject area.

The graduate with a Bachelor of Science in Education degree with a major in Middle School/Junior High School will use the knowledge and skills obtained in the program to:

- Understand, use, and reflect on the major concepts, principles, theories, and research related to young adolescent development and use that knowledge in their practice. They demonstrate their ability to apply this knowledge when making curricular decisions, planning and implementing instruction, participating in middle level programs and practices, and providing healthy and effective learning environments for all young adolescents.

- Understand and use the central concepts, standards, research, and structures of content to plan and implement curriculum that develops all young adolescents' competence in subject matter. They use their knowledge and available resources to design, implement, and evaluate challenging, developmentally responsive curriculum that results in meaningful learning outcomes. Middle level teacher candidates demonstrate their ability to assist all young adolescents in understanding the interdisciplinary nature of knowledge. They design and teach curriculum that is responsive to all young adolescents' local, national, and international histories, language/dialects, and individual identities (e.g., race, ethnicity, culture, age, appearance, ability, sexual orientation, socioeconomic status, family composition).
- Understand the major concepts, principles, theories, and research underlying the philosophical foundations of developmentally responsive middle level programs and schools, and they work successfully within middle level organizational components.
- Understand, use, and reflect on the major concepts, principles, theories, and research related to data-informed instruction and assessment. They employ a variety of developmentally appropriate instructional strategies, information literacy skills, and technologies to meet the learning needs of all young adolescents (e.g., race, ethnicity, culture, age, appearance, ability, sexual orientation, socioeconomic status, family composition).
- Understand their complex roles as teachers of young adolescents. They engage in practices and behaviors that develop their competence as middle level professionals. They are informed advocates for young adolescents and middle level education, and work successfully with colleagues, families, community agencies, and community members. Middle level teacher candidates demonstrate positive dispositions and engage in ethical professional behaviors.

Middle School-Junior High School, BSE (41-840) - Business Education Subject Area (4 Year Guide)

Middle School-Junior High School, BSE (41-840) - Engineering & Technology Subject Area (4 Year Guide)

Middle School-Junior High School, BSE (41-840) - General Science Subject Area (4 Year Guide)

Middle School-Junior High School, BSE (41-840) - Language Arts Subject Area (4 Year Guide)

Middle School-Junior High School, BSE (41-840) - Math Subject Area (4 Year Guide)

Middle School-Junior High School, BSE (41-840) - Social Science Subject Area (4 Year Guide)

Middle School-Junior High School, BSE (41-840) - Speech/Theatre Subject Area (4 Year Guide)

Major Requirements: 74-76 Semester Hours

Subject Areas: 24-27 Semester Hours

All Middle School-Junior High majors must choose one subject area from the following seven:

Business Education: 24 Semester Hours (MS01)

- CTE 1210 - Managing Information Using Computer Applications GE (2)
- CTE 3060 - Technical Writing GE (3)
- Electives from BTE minor or recommended by the BTE advisor (19)

Engineering and Technology: 24 Semester Hours (MS02)

- ATM 1010 - Contemporary Power Systems (3: 2 lecture, 1 lab)

- CMGT 1300 - Introduction to Construction Management (3: 2 lecture, 1 lab)
- CTE 1300 - Introduction to Engineering Design (3)
- CTE 2000 - Technology and Society GE (3)
- ENGT 1510 - Introduction to Manufacturing Processes (3: 2 lecture, 1 lab)

Electives in Engineering and Technology: 9 Semester Hours

- ET 1010 - Applied Electricity (4: 3 lecture, 1 lab)
- ET 1020 - General Electronics (3)
- ET 1050 - Digital Principles and Applications (3: 2 lecture, 1 lab)
- CADD 1110 - Fundamentals of Drafting (3: 3 lecture, 0 lab)
- CADD 1170 - Introduction to Computer-Aided Drafting (3: 3 lecture, 0 lab)
- ENGT 1010 - Materials for Manufacturing and Construction (3)
- ENGT 1120 - Welding (3: 2 lecture, 1 lab)

General Science: 24-27 Semester Hours (MS03)

- STCH 1003 - Great Concepts in Science GE (4: 3 lecture, 1 lab)
- STCH 3020 - Science and Engineering Practices GE (3)
- STCH 4010 - Exploring Firsthand Science Lessons (1-2)

- CHEM 1104 - Introduction to the Sciences: Chemistry GE (4: 4 lecture, 0 lab)
OR
- CHEM 1131 - General Chemistry I GE (5: 5 lecture, 0 lab)

- GEOS 1004 - Introduction to Geology GE (4: 3 lecture, 1 lab)
OR
- GEOS 1114 - Weather and Climate GE (4: 3 lecture, 1 lab)

- PHYS 1101 - College Physics I GE (4: 4 lecture, 0 lab)
OR
- PHYS 1104 - Introduction to the Sciences: Physics GE (4: 4 lecture, 0 lab)

- BIOL 1003 - Introduction to the Sciences: Ecology GE (3) **AND**
- BIOL 1006 - Environmental Science/Ecology Lab GE (1:1 lab)
OR
- BIOL 1005 - Introduction to Environmental Science GE (3) **AND**
- BIOL 1006 - Environmental Science/Ecology Lab GE (1:1 lab)
OR
- BIOL 1112 - Animal Biology (4: 3 lecture, 1 lab)

Language Arts: 24 Semester Hours (MS04)

- EDFL 4230 - Response to Intervention for Middle School English Language Arts: Block Three (4)
- EDFL 4235 - Methods of Teaching Middle Level English Language Arts (3)
- EDFL 4240 - Integrated English Language Arts Curriculum & Assessment for Middle Level Learners: Block Four (4)

- ENGL 1020 - Composition I GE (3)
 - ENGL 1030 - Composition II GE (3)
 - ENGL 2830 - Literature for Adolescents (3)
 - ENGL 3110 - English Grammar (3)
 - Electives in English Language Arts (1)
-
- ENGL 2010 - Introduction to Reading Poetry and Drama GE (3)
OR
 - ENGL 2020 - Introduction to Reading Fiction GE (3)
OR
 - ENGL 2200 - American Literature to 1865 GE (3)
OR
 - ENGL 2205 - American Literature 1865 to Present GE (3)
OR
 - ENGL 2210 - British Literature to 1798 GE (3)
OR
 - ENGL 2215 - British Literature 1798 to Present GE (3)
OR
 - ENGL 2220 - World Masterpieces GE (3)

Math: 27 Semester Hours (MS05)

- MATH 1620 - Introduction to Geometry and Decision Making for Educators GE (3)
- MATH 1820 - Introduction to Numbers and Operations for Educators GE (3)
- MATH 2821 - Elements of Algebra (3)
- MATH 2822 - Elements of Geometry (3)
- MATH 2824 - Infinite Processes I (3)
- MATH 2825 - Infinite Processes II (2)
- MATH 3800 - Teaching and Learning Numbers and Operations (3)
- MATH 3802 - Concepts and Methods in Middle School Mathematics (3)
- MATH 4851 - Probability and Statistics for Middle/High School Mathematics (3)

Social Science: 24 Semester Hours (MS06)

- ECON 1010 - Principles of Macroeconomics GE (3)
- ECON 1011 - Principles of Microeconomics GE (3)
- GEOG 2212 - World Geography GE (3)
- HIST 1350 - History of the United States to 1877 GE (3)
- HIST 1351 - History of the United States from 1877 GE (3)
- HIST 1401 - History of the Early Modern World GE (3)
- HIST 1402 - History of the Modern World GE (3)
- POLS 1510 - American Government GE (3)

Speech/Theatre: 24 Semester Hours (MS07)

- COMM 1000 - Public Speaking GE (3)
- COMM 1200 - Introduction to Mass Communication GE (3)
- COMM 2330 - Communication in Small Groups/Teams (3)

- THEA 1500 - Acting (3)
- THEA 1600 - Stagecraft (3)
- THEA 2400 - Discovering Theatre GE (3)
- COMM/THEA electives (6)

Professional Education Requirements: 49-50 Semester Hours

Must earn a 3.00 GPA or higher with no grade lower than a C in Professional Education courses.

- EDFL 2100 - Introduction to the Teaching Profession (3)
- EDFL 2240 - Educational Psychology GE (3)
- EDFL 2250 - Introduction to English Language Learners and Culturally Responsive Pedagogy (2)
- EDFL 3230 - Introduction to Language, Literacy and Literature in the Middle Level Classroom, Block One (4)
- EDFL 3240 - Application of Content Area Literacy for Middle Level Learners, Block Two (4)
- EDSP 2100 - Education of the Exceptional Child (3)
- FLDX 2150 - Introductory Field Experience (1)
- MLED 4130 - Fundamentals of Middle Level Education (4)
- MLED 4135 - Middle Level Curriculum and Assessment (4)
- MLED 4340 - The Engaging Middle Level Classroom (4)

- CFD 1220 - Child and Adolescent Development (3)
OR
- PSY 2220 - Child and Adolescent Psychological Development (3)
OR
- PSY 3220 - Life-Span Development (3)

Student Teaching Semester:

- FLDX 4497 - Student Teaching Middle School I (1-12) (6) ¹⁰
- FLDX 4498 - Student Teaching Middle School II (1-12) (6)

Methods: 2-3 Semester Hours

Students choose one from the following based on subject area selected:

- CTE 4160 - Methods of Teaching Career and Technical Education (3)
- EDFL 4235 - Methods of Teaching Middle Level English Language Arts (3)
- STCH 4050 - Science Teaching Methods (3)
- SOSC 4074 - Methods of Teaching Social Studies (3)
- MATH 3840 - Strategies in Teaching Middle School Mathematics (3)
- THEA 4984 - Methods of Teaching Speech and Theatre (2)
- Approved BTE course (3)

Note:

All Middle School- Junior high majors are encouraged to choose an additional content area by taking additional hours or with a minor. However, in order to be certified in an additional content area, a Missouri Content Assessment must be passed after initial MS/JH Certification.

General Education Requirement: 30-36 Semester Hours

All students must complete a minimum of 42 credit hours in general education. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major:

- HIST 1350 - History of the United States to 1877 GE (3)
OR
- HIST 1351 - History of the United States from 1877 GE (3)

- POLS 1510 - American Government GE (3)
- EDFL 2240 - Educational Psychology GE (3)

Free Electives: 11-16 Semester Hours

(or Complementary Content Hours)

Minimum Total: 120 Semester Hours

¹⁰Competency 10 course

Physical Education, BS (43-670) - Adapted Sport Education Option (PE07) (120-129 hours)

Major, Bachelor of Science Degree

The graduate with a Bachelor of Science degree with a major in Physical Education and completion of the Adapted Sport Education Option will:

- Demonstrate and integrate knowledge of the major concepts, empirical findings and current trends in the area of Adapted Sports and Adapted Physical Education.
- Recognize and demonstrate best practices in the area of special population to address problems related to the professions of adapted sports, health promotion and health-care.
- Appropriately apply knowledge and skills acquired in the Adapted Sport Education curriculum to personal, social, and organizational issues.
- Identify and apply appropriate Adapted Sport language through effective speaking, reading, and writing.
- Recognize and apply empirical evidence while behaving legally and ethically in research, clinic, professional and applied settings.
- Recognize individual differences, respecting the role these differences play in intercultural and international diversity. Describe the interaction of these factors in the field of Adapted Sport.
- Review authentic occupational, career, and advanced educational opportunities appropriate to the discipline and develop a feasible plan to pursue those opportunities.

Physical Education, BS (43-670) - Adapted Sport Education Option (PE07) (4 Year Guide)

Major Requirements: 52-87 Semester Hours

Major Core Requirements: 30 Semester Hours

- PE 1100 - Orientation and History of Physical Education (2)
- PE 2100 - Foundations and Philosophy of Teaching Physical Education (3)
- PE 2455 - Growth and Motor Development (3)
- PE 3310 - Analysis and Teaching of Physical Training (3)
- PE 3320 - Analysis and Teaching of Elementary Skills (3)
- PE 3330 - Analysis and Teaching of Secondary Skills (3)
- PE 3340 - Analysis and Teaching of Lifetime Activities (3)
- PE 3350 - Assessment of Elementary and Secondary Skills (2)
- PE 4210 - Outdoor Skills II (3)
- PE 4740 - Legal Liability in Fitness/Wellness, Physical Education, Recreation and Sport Settings (2)
- PE 4845 - Psychological and Social Aspects of Physical Education (3)

Adapted Sport Education Option: 36 Semester Hours

- EDSP 2100 - Education of the Exceptional Child (3)
- EDSP 4620 - Evaluation of Abilities and Achievement (3)
- EDSP 4350 - Augmentative and Alternative Communication (3)
- EDSP 4360 - Behavioral Management Techniques (2)
- EDSP 4140 - Collaborating With Families of Exceptional Children (3)
- EDSP 4161 - Physical and Health Care Needs of Students with Autism and Severe Developmental Disabilities (2)
- NUR 4060 - Physical and Health Needs of the Medically Fragile Child (1)
- PE 4000 - Special Projects in Coeducational Physical Education (1-5) (3)
- PE 4350 - Physical Education for Special Education (2)
- PE 4450 - Techniques of Teaching Physical Education Activities in the Elementary Schools (3)
- PE 4460 - Techniques of Teaching Physical Education Activities in Middle Schools and High Schools (3)
- PE 4770 - Curriculum and Instructional Planning (2)
- PE 4970 - Teaching and Management in PreK-12 Physical Education (3)
- PE 4974 - Assessment and Data Based Decision Making in Physical Education (2)
- PE 4975 - Practicum in PreK-12 Physical Education (1) ¹⁰

General Education Requirements: 26-33 Semester Hours

All students must complete a minimum of 42 credit hours in general education. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major.

Must have C or better for these courses:

- MATH 1111 - College Algebra GE (3)

Additional Required General Education Courses for Adapted Sport Education Option

- BIOL 2010 - Human Biology GE (3)
- DANC 2100 - Dance Appreciation GE (3)
- EDFL 2240 - Educational Psychology GE (3)
- HLTH 1200 - Applied Nutrition for Healthy Living GE (3)
- PHIL 1410 - Critical Thinking GE (3)
- PSY 4230 - Psychology of Adolescence GE (3)

- HIST 1350 - History of the United States to 1877 GE (3)
OR
- HIST 1351 - History of the United States from 1877 GE (3)

- CHEM 1104 - Introduction to the Sciences: Chemistry GE (4: 4 lecture, 0 lab)
OR
- BIOL 1007 - Plants and Society GE (4: 3 lecture, 1 lab)
OR
- PHYS 1104 - Introduction to the Sciences: Physics GE (4: 4 lecture, 0 lab)

- CTE 1210 - Managing Information Using Computer Applications GE (2)
OR
- GEOS 2300 - Acquiring and Managing Spatial Information GE (2)
OR
- LIS 1010 - Truth, Lies and Information Management GE (2)
OR
- LIS 1600 - University Library and Research Skills GE (2)

- ENGL 2010 - Introduction to Reading Poetry and Drama GE (3)
OR
- ENGL 2020 - Introduction to Reading Fiction GE (3)
OR
- ENGL 2200 - American Literature to 1865 GE (3)
OR
- ENGL 2205 - American Literature 1865 to Present GE (3)
OR
- ENGL 2220 - World Masterpieces GE (3)

Free Electives: 12 Semester Hours

Minimum Total: 120-129 Semester Hours

¹⁰ Competency 10 course

Physical Education, BS (43-670) - Elementary - Secondary Certification K-12 Option (PE06) (120-129 hours)

Major, Bachelor of Science Degree

The graduate with a Bachelor of Science degree with a major in Physical Education and completion of Elementary - Secondary Certification K-12 Option will:

- Demonstrate a level of content knowledge required to be an effective teacher.
- Utilize appropriate practices and broad fields of information when planning and implementing effective instructional strategies for diverse populations.
- Positively impact student engagement and learning through appropriate instructional practices in the management of time, people, space, equipment, transitions and behavior.
- Understand and use multiple assessment strategies to assess individual student needs and learning as well as program effectiveness.
- Continually reflect on and make instructional and program improvement decisions based on assessment data.

Physical Education, BS (43-670) - Elementary - Secondary Certification K-12 Option (PE06) (4 Year Guide)

Major Requirements: 99 Semester Hours

Major Core Requirements: 30 Semester Hours

- PE 1100 - Orientation and History of Physical Education (2)
- PE 2100 - Foundations and Philosophy of Teaching Physical Education (3)
- PE 2455 - Growth and Motor Development (3)
- PE 3310 - Analysis and Teaching of Physical Training (3)
- PE 3320 - Analysis and Teaching of Elementary Skills (3)
- PE 3330 - Analysis and Teaching of Secondary Skills (3)
- PE 3340 - Analysis and Teaching of Lifetime Activities (3)
- PE 3350 - Assessment of Elementary and Secondary Skills (2)
- PE 4340 - Adapted Physical Education (3)
- PE 4740 - Legal Liability in Fitness/Wellness, Physical Education, Recreation and Sport Settings (2)
- PE 4845 - Psychological and Social Aspects of Physical Education (3)

Elementary - Secondary certification K-12 Option: 32 Semester Hours

Students must maintain a 3.00 GPA in these courses.

- AT 3610 - Care and Prevention of Injuries (3)
- DANC 2100 - Dance Appreciation GE (3)
- HLTH 1200 - Applied Nutrition for Healthy Living GE (3)
- HLTH 1350 - Responding to Emergencies (3)
- KIN 1800 - Functional Anatomy (3)
- KIN 2800 - Biomechanics (3)
- KIN 2850 - Foundations of Exercise Physiology (3)
- MATH 1111 - College Algebra GE (3)
- PE 4450 - Techniques of Teaching Physical Education Activities in the Elementary Schools (3)
- PE 4460 - Techniques of Teaching Physical Education Activities in Middle Schools and High Schools (3)

- PE 4770 - Curriculum and Instructional Planning (2)

Professional Education Requirements: 37 Semester Hours

Must earn a 3.00 GPA or higher with no grade lower than a C in Professional Education courses.

- EDFL 2100 - Introduction to the Teaching Profession (3)
- EDFL 2240 - Educational Psychology GE (3)
- EDFL 2250 - Introduction to English Language Learners and Culturally Responsive Pedagogy (2)
- EDFL 4210 - Introduction to Content Area Literacy (2)
- EDSP 2100 - Education of the Exceptional Child (3)
- FLDX 2150 - Introductory Field Experience (1)
- FLDX 3000 - Field Experience in the Content Area (1)
- PE 4970 - Teaching and Management in PreK-12 Physical Education (3)
- PE 4971 - Methods of Teaching Reading and Writing in Physical Education (1)
- PE 4974 - Assessment and Data Based Decision Making in Physical Education (2)
- PE 4975 - Practicum in PreK-12 Physical Education (1)

- CFD 1220 - Child and Adolescent Development (3)
OR
- PSY 2220 - Child and Adolescent Psychological Development (3)
OR
- PSY 3220 - Life-Span Development (3)

Student Teaching Semester:

- FLDX 4468 - Student Teaching Secondary II (1-12) (4) ¹⁰
- FLDX 4495 - Student Teaching Elementary I (1-12) (5)
- PE 4890 - Methods of Teaching and Assessment in K-12 Physical Education (3)

General Education Requirements: 30 Semester Hours

All students must complete a minimum of 42 credit hours in general education. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major.

Must have C or better for these courses:

Required General Education Core

- MATH 1111 - College Algebra GE (3)

Additional required general education courses for Elementary - Secondary Certification K-12 Option

- BIOL 2010 - Human Biology GE (3)
- DANC 2100 - Dance Appreciation GE (3)

- EDFL 2240 - Educational Psychology GE (3)
- HLTH 1200 - Applied Nutrition for Healthy Living GE (3)
- PHIL 1410 - Critical Thinking GE (3)
- PSY 4230 - Psychology of Adolescence GE (3)

- HIST 1350 - History of the United States to 1877 GE (3)
OR
- HIST 1351 - History of the United States from 1877 GE (3)

- CHEM 1104 - Introduction to the Sciences: Chemistry GE (4: 4 lecture, 0 lab)
OR
- BIOL 1007 - Plants and Society GE (4: 3 lecture, 1 lab)
OR
- PHYS 1104 - Introduction to the Sciences: Physics GE (4: 4 lecture, 0 lab)

- CTE 1210 - Managing Information Using Computer Applications GE (2)
OR
- GEOS 2300 - Acquiring and Managing Spatial Information GE (2)
OR
- LIS 1010 - Truth, Lies and Information Management GE (2)
OR
- LIS 1600 - University Library and Research Skills GE (2)

- ENGL 2010 - Introduction to Reading Poetry and Drama GE (3)
OR
- ENGL 2020 - Introduction to Reading Fiction GE (3)
OR
- ENGL 2200 - American Literature to 1865 GE (3)
OR
- ENGL 2205 - American Literature 1865 to Present GE (3)
OR
- ENGL 2220 - World Masterpieces GE (3)

Minimum Total: 120-129 Semester Hours

¹⁰ Competency 10 course

Physical Education, BS (43-670) - Sports & Recreation Education Option (PE08) (120-129 hours)

Major, Bachelor of Science Degree

The graduate with a Bachelor of Science degree with a major in Physical Education and completion Sports and Recreation Education Option will:

- Demonstrate and integrate knowledge of the major concepts, empirical findings and current trends in the area of Adapted Sports and Adapted Physical Education.
- Recognize and demonstrate best practices in the area of special population to address problems related to the professions of adapted sports, health promotion and health-care.

- Appropriately apply knowledge and skills acquired in the Adapted Sport Education curriculum to personal, social, and organizational issues.
- Identify and apply appropriate Adapted Sport language through effective speaking, reading, and writing.
- Recognize and apply empirical evidence while behaving legally and ethically in research, clinic, professional and applied settings.
- Recognize individual differences, respecting the role these differences play in intercultural and international diversity. Describe the interaction of these factors in the field of Adapted Sport.
- Review authentic occupational, career, and advanced educational opportunities appropriate to the discipline and develop a feasible plan to pursue those opportunities.

Physical Education, BS (43-670) - Sports & Recreation Education Option (PE08) (4 Year Guide)

Major Requirements: 52-87 Semester Hours

Major Core Requirements: 30 Semester Hours

- PE 1100 - Orientation and History of Physical Education (2)
- PE 2100 - Foundations and Philosophy of Teaching Physical Education (3)
- PE 2455 - Growth and Motor Development (3)
- PE 3310 - Analysis and Teaching of Physical Training (3)
- PE 3320 - Analysis and Teaching of Elementary Skills (3)
- PE 3330 - Analysis and Teaching of Secondary Skills (3)
- PE 3340 - Analysis and Teaching of Lifetime Activities (3)
- PE 3350 - Assessment of Elementary and Secondary Skills (2)
- PE 4340 - Adapted Physical Education (3)
- PE 4740 - Legal Liability in Fitness/Wellness, Physical Education, Recreation and Sport Settings (2)
- PE 4845 - Psychological and Social Aspects of Physical Education (3)

Sports & Recreation Education Option: 22 Semester Hours

- PE 1200 - Fitness Through Activity and Sport (1)
- PE 1204 - Stress Management (1)
- PE 2200 - Weight Training (1)
- PE 3210 - Outdoor Skills I (3)
- PE 4000 - Special Projects in Coeducational Physical Education (1-5) (3)
- PE 4210 - Outdoor Skills II (3)
- PE 4551 - Fundamental Techniques in Coaching (3) ¹⁰
- PE 4550 - Introduction to Coaching (3)
- PE 4560 - Coaching and Sport Analysis (2)
- PE 4590 - Administration of Interscholastic Athletics (2)

General Education Requirements: 26-33 Semester Hours

All students must complete a minimum of 42 credit hours in general education. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major.

Must have C or better for these courses:

Required General Education Core

- MATH 1111 - College Algebra GE (3)

Additional required general education courses for Sport & Recreation Education Option

- BIOL 2010 - Human Biology GE (3)
- DANC 2100 - Dance Appreciation GE (3)
- EDFL 2240 - Educational Psychology GE (3)
- HLTH 1200 - Applied Nutrition for Healthy Living GE (3)
- PHIL 1410 - Critical Thinking GE (3)
- PSY 4230 - Psychology of Adolescence GE (3)

- HIST 1350 - History of the United States to 1877 GE (3)
OR
- HIST 1351 - History of the United States from 1877 GE (3)

- CHEM 1104 - Introduction to the Sciences: Chemistry GE (4: 4 lecture, 0 lab)
OR
- BIOL 1007 - Plants and Society GE (4: 3 lecture, 1 lab)
OR
- PHYS 1104 - Introduction to the Sciences: Physics GE (4: 4 lecture, 0 lab)

- CTE 1210 - Managing Information Using Computer Applications GE (2)
OR
- GEOS 2300 - Acquiring and Managing Spatial Information GE (2)
OR
- LIS 1010 - Truth, Lies and Information Management GE (2)
OR
- LIS 1600 - University Library and Research Skills GE (2)

- ENGL 2010 - Introduction to Reading Poetry and Drama GE (3)
OR
- ENGL 2020 - Introduction to Reading Fiction GE (3)
OR
- ENGL 2200 - American Literature to 1865 GE (3)
OR
- ENGL 2205 - American Literature 1865 to Present GE (3)
OR
- ENGL 2220 - World Masterpieces GE (3)

Free Electives: 26 Semester Hours

Minimum Total: 120-129 Semester Hours

¹⁰ Competency 10 course

Program and Community Partnerships in Early Childhood Education (10-656) (12 hours)

Student Learning Outcomes*

After completion of the certificate courses the candidates will be able to:

- Build capacity in foundational beliefs, knowledge, and skills of early childhood education.
- Understand family, program, and community relations.
- Understand and demonstrate ethical practices.
- Understand issues in early childhood education.

*These outcomes are aligned with Standards 2 and 6 of the National Association for the Education of Young Children (NAEYC) Standards for Early Childhood Professional Preparation.

Admission Requirements:

- A minimum 2.5 GPA on any courses completed prior to admission.

Required Courses: 12 Semester Hours

- CFD 3250 - Organization and Administration of Programs for Young Children (3)
- ECEL 3468 - Community, School and Family Connections (3) **
- ECEL 4000 - Special Projects in Education (1-6) (1)
- EDFL 2250 - Introduction to English Language Learners and Culturally Responsive Pedagogy (2)
- EDSP 3150 - Community and Family Resources (2) **
- EDSP 3151 - Community and Family Resources Practicum (1) **

Note:

** This course has prerequisites not listed in the program; click on the course number for additional requirements.

Secondary Education, BSE (41-695) - Agriculture Teacher Education Option (E328) (129-130 hours)

Teacher Education Policy

Secondary Education, BSE (41-695) - Agriculture Teacher Education Option (E328) (4 Year Guide)

Major Requirements: 52 Semester Hours

- AGRI 1200 - Agriculture Mechanics (3: 2 lecture, 1 lab)
- AGRI 1420 - Introduction to Animal Science (3: 2 lecture, 1 lab)
- AGRI 1600 - Introduction to Horticulture Science GE (4: 3 lecture, 1 lab)
- AGRI 2130 - Global Agriculture GE (3)

- AGRI 2330 - Introduction to Soil Science (3: 2 lecture, 1 lab)
- AGRI 3110 - Agri-Business Management (3)
- AGRI 3210 - Soil and Water Management (3)
- AGRI 3610 - Agriculture Pest Management (3)
- AGRI 3620 - Residential Landscape Design (3: 2 lecture, 1 lab)
- AGRI 4150 - Natural Resource Economics (3)
- AGRI 4200 - Advanced Agriculture Mechanics (3)
- CTE 1000 - Introduction to Career and Technical Education (1)
- CTE 3060 - Technical Writing GE (3)
- ECON 1010 - Principles of Macroeconomics GE (3)
- ECON 1011 - Principles of Microeconomics GE (3)

- AGRI 1310 - Agronomy I: Row Crops (2: 2 lecture, 0 lab)
OR
- AGRI 2315 - Agronomy II: Forages (2)

- Agriculture electives (6)

Professional Education: 50 Semester Hours

Must earn a 3.00 GPA or higher with no grade lower than a C in Professional Education courses.

- AGRI 4900 - Planning and Conducting Programs in Agricultural Education (2)
- AGRI 4910 - Supervised Agriculture Experience Programs in Agricultural Education (2)
- CTE 4145 - Curriculum Construction in Career and Technical Education (3)
- EDFL 2100 - Introduction to the Teaching Profession (3)
- EDFL 2240 - Educational Psychology GE (3)
- EDFL 4210 - Introduction to Content Area Literacy (2)
- EDFL 4212 - Literacy in the Disciplines I (2)
- EDFL 4970 - Secondary Teaching and Behavioral Management (2)
- EDFL 4972 - Literacy in the Disciplines II (2)
- EDSP 2100 - Education of the Exceptional Child (3)
- FLDX 2150 - Introductory Field Experience (1)

- CFD 1220 - Child and Adolescent Development (3)
OR
- PSY 2220 - Child and Adolescent Psychological Development (3)
OR
- PSY 3220 - Life-Span Development (3)

Junior Block: 4 Semester Hours

- CTE 4973 - CTE Classroom and Lab Management Techniques (1)
- EDFL 2250 - Introduction to English Language Learners and Culturally Responsive Pedagogy (2)
- FLDX 3000 - Field Experience in the Content Area (1)

Senior Block: 6 Semester Hours

- CTE 4160 - Methods of Teaching Career and Technical Education (3)
- CTE 4974 - Educational Evaluation and Strategies (2)
- FLDX 4970 - Field Experience II in the Content Area (1)

Student Teaching Semester: 12 Semester Hours

- FLDX 4468 - Student Teaching Secondary II (1-12) (6) ¹⁰
- FLDX 4595 - Student Teaching Secondary I (1-12) (6)

General Education: 27-28 Semester Hours

All students must complete a minimum of 42 credits hours in general education. See The General Education Program Requirements for full listing of requirements. Some General Education courses included in the major are used to satisfy General Education requirements, but additional courses within the same General Education categories are not.

Besides those listed above, the following General Education classes are required in this program:

- AGRI 1600 - Introduction to Horticulture Science GE (4: 3 lecture, 1 lab)
- AGRI 2130 - Global Agriculture GE (3)
- CHEM 1104 - Introduction to the Sciences: Chemistry GE (4: 4 lecture, 0 lab)
- COMM 1000 - Public Speaking GE (3)
- CTE 3060 - Technical Writing GE (3)
- ECON 1010 - Principles of Macroeconomics GE (3)
- EDFL 2240 - Educational Psychology GE (3)
- MATH 1111 - College Algebra GE (3)

- CTE 1210 - Managing Information Using Computer Applications GE (2)
OR
- CTE 2000 - Technology and Society GE (3)

- HIST 1350 - History of the United States to 1877 GE (3)
OR
- HIST 1351 - History of the United States from 1877 GE (3)

Agriculture Teacher Ed Option Total: 129-130 Semester Hours

¹⁰ Competency 10 course

Secondary Education, BSE (41-695) - Biology Option (E487) (123-133 hours)

Teacher Education Policy

Secondary Education, BSE (41-695) - Biology Option (E487) (4 Year Guide)

General Science: 29-37 Semester Hours

- BIOL 2020 - General Ecology (3) ²
 - CHEM 1131 - General Chemistry I GE (5: 5 lecture, 0 lab)
 - GEOS 1004 - Introduction to Geology GE (4: 3 lecture, 1 lab)
 - MATH 1111 - College Algebra GE (3)
 - PHYS 1101 - College Physics I GE (4: 4 lecture, 0 lab)
 - STCH 3020 - Science and Engineering Practices GE (3)

 - BIOL 1111 - Plant Biology (4: 3 lecture, 1 lab)
OR
 - BIOL 1112 - Animal Biology (4: 3 lecture, 1 lab)

 - PSY 2220 - Child and Adolescent Psychological Development (3)
OR
 - PSY 3220 - Life-Span Development (3)

 - GEOS 1114 - Weather and Climate GE (4: 3 lecture, 1 lab) ¹
 - PHYS 1102 - College Physics II (4: 4 lecture, 0 lab) ¹
- ¹ These credit hours are only required for those students interested in **unified science** certification.
² This course has a prerequisite.

Biology: 26-27 Semester Hours

- BIOL 1000 - The Discipline of Biology (1)
- BIOL 1110 - Principles of Biology (3)
- BIOL 2512 - Cell Biology (3)
- BIOL 3511 - Genetics (4: 3 lecture, 1 lab)
- BIOL 4102 - Evolution (3)
- CHEM 1132 - General Chemistry II (5: 5 lecture, 0 lab)

- BIOL 1111 - Plant Biology (4: 3 lecture, 1 lab)
OR
- BIOL 1112 - Animal Biology (4: 3 lecture, 1 lab)

Electives from the following: 3-4 Semester Hours

- BIOL 2010 - Human Biology GE (3)
- BIOL 3401 - Human Anatomy (3: 1 lecture, 2 lab)
- BIOL 3431 - Animal Physiology (4: 2 lecture, 2 lab)
- BIOL 3611 - Microbiology (4: 3 lecture, 1 lab)
- BIOL 4411 - Plant Physiology (4: 2 lecture, 2 lab)

Professional Education: 37 Semester Hours

Must earn a 3.00 GPA or higher with no grade lower than a C in Professional Education courses.

- EDFL 2100 - Introduction to the Teaching Profession (3)
- EDFL 2240 - Educational Psychology GE (3)
- EDFL 2250 - Introduction to English Language Learners and Culturally Responsive Pedagogy (2)

- EDFL 4210 - Introduction to Content Area Literacy (2)
- EDFL 4212 - Literacy in the Disciplines I (2)
- EDFL 4970 - Secondary Teaching and Behavioral Management (2)
- EDFL 4972 - Literacy in the Disciplines II (2)
- EDFL 4973 - Classroom Management in Content Areas (1)
- EDFL 4974 - Content Specific Assessment (1)
- EDSP 2100 - Education of the Exceptional Child (3)
- FLDX 2150 - Introductory Field Experience (1)
- FLDX 3000 - Field Experience in the Content Area (1)
- FLDX 4970 - Field Experience II in the Content Area (1)
- STCH 4010 - Exploring Firsthand Science Lessons (1-2) (1)
- STCH 4050 - Science Teaching Methods (3)

Student Teaching Semester: 12 Semester Hours

- FLDX 4468 - Student Teaching Secondary II (1-12) (4) ¹⁰
- FLDX 4595 - Student Teaching Secondary I (1-12) (4)
- STCH 4080 - Science Learning and Literacy (4)

General Education: 32-33 Semester Hours

All students must complete a minimum of 42 credits hours in general education. See The General Education Program Requirements for full listing of requirements. Some General Education courses included in the major are used to satisfy General Education requirements, but additional courses within the same General Education categories are not.

Besides those listed above, the following General Education classes are required in this program:

- EDFL 2240 - Educational Psychology GE (3)
- POLS 1510 - American Government GE (3)
- HIST 1350 - History of the United States to 1877 GE (3)
OR
- HIST 1351 - History of the United States from 1877 GE (3)

Biology Option Total: 123-133 Semester Hours

This total varies depending on teaching certification requirements.

¹⁰ Competency 10 course

Secondary Education, BSE (41-695) - Business Teacher Education Option (E270) (122 hours)

Teacher Education Policy

Secondary Education, BSE (41-695) - Business Teacher Education Option (E270) (4 Year Guide)

Major Requirements: 40 Semester Hours

- ACCT 1101 - Foundations of Financial Reporting (3)
- ACCT 2102 - Principles of Managerial Accounting (3)
- BLAW 2720 - Legal Environment of Business (3)
- BTE 3110 - Consumer Finance and Economics (3)
- BTE 4241 - Coordination of Cooperative Education Programs (3)
- BTE 4280 - Implementing Business and Marketing Education (3)
- CTE 1000 - Introduction to Career and Technical Education (1)
- ECON 1010 - Principles of Macroeconomics GE (3)
- MGT 3315 - Management of Organizations (3)
- MGT 3325 - Business Communication (3)
- MKT 3405 - Principles of Marketing (3)
- MKT 3450 - Digital Marketing (3)

Emerging Technologies Courses: (6) Semester Hours from 2 different groups

- BTE 4510 - Desktop Publishing for Business (3)
OR
- BTE 4550 - Publishing Applications for Business (2)
OR
- COMM 2410 - Multimedia Production (3)
OR
- GRAP 1010 - Digital PreMedia Fundamentals (3)

- BTE 4535 - Data Input Technologies (2)
OR
- BTE 4560 - Emerging Technologies for Business (2)
OR
- INST 4110 - Google Educator Prep (3)

- ART 1610 - Web Languages GE (3)
OR
- CS 1030 - Introduction to Computer Programming GE (3)

Professional Education: 46 Semester Hours

Must earn a 3.00 GPA or higher with no grade lower than a C in Professional Education courses.

- CTE 4145 - Curriculum Construction in Career and Technical Education (3)
- EDFL 2100 - Introduction to the Teaching Profession (3)
- EDFL 2240 - Educational Psychology GE (3)
- EDFL 4210 - Introduction to Content Area Literacy (2)
- EDFL 4212 - Literacy in the Disciplines I (2)
- EDFL 4970 - Secondary Teaching and Behavioral Management (2)
- EDFL 4972 - Literacy in the Disciplines II (2)

- EDSP 2100 - Education of the Exceptional Child (3)
- FLDX 2150 - Introductory Field Experience (1)
- CFD 1220 - Child and Adolescent Development (3)
OR
- PSY 2220 - Child and Adolescent Psychological Development (3)
OR
- PSY 3220 - Life-Span Development (3)

Junior Block: 4 Semester Hours

- CTE 4973 - CTE Classroom and Lab Management Techniques (1)
- EDFL 2250 - Introduction to English Language Learners and Culturally Responsive Pedagogy (2)
- FLDX 3000 - Field Experience in the Content Area (1)

Senior Block: 6 Semester Hours

- CTE 4160 - Methods of Teaching Career and Technical Education (3)
- CTE 4974 - Educational Evaluation and Strategies (2)
- FLDX 4970 - Field Experience II in the Content Area (1)

Student Teaching Semester: 12 Semester Hours

- FLDX 4468 - Student Teaching Secondary II (1-12) (6) ¹⁰
- FLDX 4595 - Student Teaching Secondary I (1-12) (6)

General Education: 36 Semester Hours

All students must complete a minimum of 42 credits hours in general education. See The General Education Program Requirements for full listing of requirements. Some General Education courses included in the major are used to satisfy General Education requirements, but additional courses within the same General Education categories are not.

Besides those listed above, the following General Education classes are required in this program:

- CTE 1210 - Managing Information Using Computer Applications GE (2)
- ECON 1010 - Principles of Macroeconomics GE (3)
- EDFL 2240 - Educational Psychology GE (3)
- POLS 1510 - American Government GE (3)
- COMM 1000 - Public Speaking GE (3)
OR
- COMM 1050 - Fundamentals of Oral Communication Competency GE (3)
- HIST 1350 - History of the United States to 1877 GE (3)
OR
- HIST 1351 - History of the United States from 1877 GE (3)

Business Teacher Education Option Total: 122 Semester Hours

¹⁰ Competency 10 course

Secondary Education, BSE (41-695) - Chemistry Option (E485) (129-138 hours)

Teacher Education Policy

Secondary Education, BSE (41-695) - Chemistry Option (E485) (4 Year Guide)

Major Requirements: 60-68 Semester Hours

General Science: 32-40 Semester Hours

- ((BIOL 1003 - Introduction to the Sciences: Ecology GE (3)
OR
 - BIOL 1005 - Introduction to Environmental Science GE (3))
AND
 - BIOL 1006 - Environmental Science/Ecology Lab GE (1:1 lab)) (4)

 - BIOL 1112 - Animal Biology (4: 3 lecture, 1 lab)
 - CHEM 1131 - General Chemistry I GE (5: 5 lecture, 0 lab)
 - GEOS 1004 - Introduction to Geology GE (4: 3 lecture, 1 lab)
 - MATH 1151 - Calculus I GE (5) ²
 - PHYS 1101 - College Physics I GE (4: 4 lecture, 0 lab)
 - STCH 3020 - Science and Engineering Practices GE (3)

 - PSY 2220 - Child and Adolescent Psychological Development (3)
OR
 - PSY 3220 - Life-Span Development (3)

 - BIOL 1111 - Plant Biology (4: 3 lecture, 1 lab) ¹
 - GEOS 1114 - Weather and Climate GE (4: 3 lecture, 1 lab) ¹
- ¹ These credit hours are only required for those students interested in **unified science** certification.
² This course has a prerequisite.

Chemistry: 28 Semester Hours

- CHEM 1132 - General Chemistry II (5: 5 lecture, 0 lab)
- CHEM 3111 - Inorganic Chemistry (4: 4 lecture, 0 lab)
- CHEM 3212 - Quantitative Analysis (4: 4 lecture, 0 lab)
- CHEM 3341 - Organic Chemistry I (4: 4 lecture, 0 lab)
- CHEM 3421 - Biochemistry (3)
- CHEM 4531 - Physical Chemistry: Thermodynamics and Kinetics (4: 4 lecture, 0 lab)
- PHYS 1102 - College Physics II (4: 4 lecture, 0 lab)

Professional Education: 37 Semester Hours

Must earn a 3.00 GPA or higher with no grade lower than a C in Professional Education courses.

- EDFL 2100 - Introduction to the Teaching Profession (3)
- EDFL 2240 - Educational Psychology GE (3)
- EDFL 2250 - Introduction to English Language Learners and Culturally Responsive Pedagogy (2)
- EDFL 4210 - Introduction to Content Area Literacy (2)
- EDFL 4212 - Literacy in the Disciplines I (2)
- EDFL 4970 - Secondary Teaching and Behavioral Management (2)
- EDFL 4972 - Literacy in the Disciplines II (2)
- EDFL 4973 - Classroom Management in Content Areas (1)
- EDFL 4974 - Content Specific Assessment (1)
- EDSP 2100 - Education of the Exceptional Child (3)
- FLDX 2150 - Introductory Field Experience (1)
- FLDX 3000 - Field Experience in the Content Area (1)
- FLDX 4970 - Field Experience II in the Content Area (1)
- STCH 4010 - Exploring Firsthand Science Lessons (1-2)
- STCH 4050 - Science Teaching Methods (3)

Student Teaching Semester: 12 Semester Hours

- FLDX 4468 - Student Teaching Secondary II (1-12) (4) ¹⁰
- FLDX 4595 - Student Teaching Secondary I (1-12) (4)
- STCH 4080 - Science Learning and Literacy (4)

General Education: 32-33 Semester Hours

All students must complete a minimum of 42 credits hours in general education. See The General Education Program Requirements for full listing of requirements. Some General Education courses included in the major are used to satisfy General Education requirements, but additional courses within the same General Education categories are not.

Besides those listed above, the following General Education classes are required in this program:

- EDFL 2240 - Educational Psychology GE (3)
- POLS 1510 - American Government GE (3)

- HIST 1350 - History of the United States to 1877 GE (3)
OR
- HIST 1351 - History of the United States from 1877 GE (3)

Chemistry Option Total: 129-138 Semester Hours

This total varies depending on teaching certification requirements.

¹⁰ Competency 10 course

Secondary Education, BSE (41-695) - Earth Science Option (E280) (125-135 hours)

Teacher Education Policy

Secondary Education, BSE (41-695) - Earth Science Option (E280) (4 Year Guide)

Major Requirements: 49-67 Semester Hours

General Science: 26-41 Semester Hours

- CHEM 1131 - General Chemistry I GE (5: 5 lecture, 0 lab)
- GEOS 1004 - Introduction to Geology GE (4: 3 lecture, 1 lab)
- PHYS 1101 - College Physics I GE (4: 4 lecture, 0 lab)
- STCH 3020 - Science and Engineering Practices GE (3)

- BIOL 1111 - Plant Biology (4: 3 lecture, 1 lab)
OR
- BIOL 1112 - Animal Biology (4: 3 lecture, 1 lab)

- MATH 1111 - College Algebra GE (3)
OR
- MATH 1131 - Applied Calculus GE (3)
OR
- MATH 1150 - Pre-Calculus Mathematics GE (5)
OR
- MATH 1151 - Calculus I GE (5)

- PSY 2220 - Child and Adolescent Psychological Development (3)
OR
- PSY 3220 - Life-Span Development (3)

- CHEM 1132 - General Chemistry II (5: 5 lecture, 0 lab) ¹
- PHYS 1102 - College Physics II (4: 4 lecture, 0 lab)
- Either BIOL 1111 or BIOL 1112 not taken above (4) ¹

¹ These credit hours are only required for those students interested in **unified science** certification.

Earth Science: 26-29 Semester Hours

- BIOL 4102 - Evolution (3)
- GEOS 1114 - Weather and Climate GE (4: 3 lecture, 1 lab)
- GEOS 2200 - Historical Geology (4: 3 lecture, 1 lab)
- GEOS 3010 - Environmental Geology (3)
- GEOS 1112 - Astronomy (3)
- GEOS 1115 - Oceanography (3)
- GEOS 4300 - Earth Resources (4: 3 lecture, 1 lab)
- GEOS 2300 - Acquiring and Managing Spatial Information GE (2)

- Approved science electives: (0-3)

Professional Education: 37 Semester Hours

Must earn a 3.00 GPA or higher with no grade lower than a C in Professional Education courses.

- EDFL 2100 - Introduction to the Teaching Profession (3)
- EDFL 2240 - Educational Psychology GE (3)
- EDFL 2250 - Introduction to English Language Learners and Culturally Responsive Pedagogy (2)
- EDFL 4210 - Introduction to Content Area Literacy (2)
- EDFL 4212 - Literacy in the Disciplines I (2)
- EDFL 4970 - Secondary Teaching and Behavioral Management (2)
- EDFL 4972 - Literacy in the Disciplines II (2)
- EDFL 4973 - Classroom Management in Content Areas (1)
- EDFL 4974 - Content Specific Assessment (1)
- EDSP 2100 - Education of the Exceptional Child (3)
- FLDX 2150 - Introductory Field Experience (1)
- FLDX 3000 - Field Experience in the Content Area (1)
- FLDX 4970 - Field Experience II in the Content Area (1)
- STCH 4010 - Exploring Firsthand Science Lessons (1-2) (1)
- STCH 4050 - Science Teaching Methods (3)

Student Teaching Semester: 12 Semester Hours

- FLDX 4468 - Student Teaching Secondary II (1-12) (4) ¹⁰
- FLDX 4595 - Student Teaching Secondary I (1-12) (4)
- STCH 4080 - Science Learning and Literacy (4)

General Education: 30-31 Semester Hours

All students must complete a minimum of 42 credits hours in general education. See The General Education Program Requirements for full listing of requirements. Some General Education courses included in the major are used to satisfy General Education requirements, but additional courses within the same General Education categories are not.

Besides those listed above, the following General Education classes are required in this program:

- EDFL 2240 - Educational Psychology GE (3)
- POLS 1510 - American Government GE (3)
- HIST 1350 - History of the United States to 1877 GE (3)
OR
- HIST 1351 - History of the United States from 1877 GE (3)

Earth Science Option Total: 125-135 Semester Hours

This total varies depending on teaching certification requirements.

¹⁰ Competency 10 course

Secondary Education, BSE (41-695) - Engineering and Technology Teacher Education Option (E282) (122 hours)

Teacher Education Policy

Secondary Education, BSE (41-695) - Engineering and Technology Teacher Education Option (E282) (4 Year Guide)

Major Requirements: 46 Semester Hours

- ATM 1010 - Contemporary Power Systems (3: 2 lecture, 1 lab)
- CADD 1170 - Introduction to Computer-Aided Drafting (3: 3 lecture, 0 lab)
- CMGT 1300 - Introduction to Construction Management (3: 2 lecture, 1 lab)
- CTE 1000 - Introduction to Career and Technical Education (1)
- CTE 1300 - Introduction to Engineering Design (3)
- CTE 2000 - Technology and Society GE (3)
- CTE 3060 - Technical Writing GE (3)
- CTE 3116 - Creative Thinking for a Better World GE (3)
- ENGT 1120 - Welding (3: 2 lecture, 1 lab)
- ENGT 1510 - Introduction to Manufacturing Processes (3: 2 lecture, 1 lab)
- ET 1020 - General Electronics (3)
- SOT 4570 - Computer Graphics (3)
- Approved electives from Science & Technology (12)

Professional Education: 46 Semester Hours

Must earn a 3.00 GPA or higher with no grade lower than a C in Professional Education courses.

- CTE 4145 - Curriculum Construction in Career and Technical Education (3)
- EDFL 2100 - Introduction to the Teaching Profession (3)
- EDFL 2240 - Educational Psychology GE (3)
- EDFL 4210 - Introduction to Content Area Literacy (2)
- EDFL 4212 - Literacy in the Disciplines I (2)
- EDFL 4970 - Secondary Teaching and Behavioral Management (2)
- EDFL 4972 - Literacy in the Disciplines II (2)
- EDSP 2100 - Education of the Exceptional Child (3)
- FLDX 2150 - Introductory Field Experience (1)

- CFD 1220 - Child and Adolescent Development (3)
OR
- PSY 2220 - Child and Adolescent Psychological Development (3)
OR
- PSY 3220 - Life-Span Development (3)

Junior Block: 4 Semester Hours

- CTE 4973 - CTE Classroom and Lab Management Techniques (1)

- EDFL 2250 - Introduction to English Language Learners and Culturally Responsive Pedagogy (2)
- FLDX 3000 - Field Experience in the Content Area (1)

Senior Block: 6 Semester Hours

- CTE 4160 - Methods of Teaching Career and Technical Education (3)
- CTE 4974 - Educational Evaluation and Strategies (2)
- FLDX 4970 - Field Experience II in the Content Area (1)

Student Teaching Semester: 12 Semester Hours

- FLDX 4468 - Student Teaching Secondary II (1-12) (6) ¹⁰
- FLDX 4595 - Student Teaching Secondary I (1-12) (6)

General Education: 30 Semester Hours

All students must complete a minimum of 42 credits hours in general education. See The General Education Program Requirements for full listing of requirements. Some General Education courses included in the major are used to satisfy General Education requirements, but additional courses within the same General Education categories are not.

Besides those listed above, the following General Education classes are required in this program:

- CTE 2000 - Technology and Society GE (3)
- CTE 3060 - Technical Writing GE (3)
- CTE 3116 - Creative Thinking for a Better World GE (3)
- EDFL 2240 - Educational Psychology GE (3)
- PHYS 1104 - Introduction to the Sciences: Physics GE (4: 4 lecture, 0 lab)
- POLS 1510 - American Government GE (3)

- HIST 1350 - History of the United States to 1877 GE (3)
OR
- HIST 1351 - History of the United States from 1877 GE (3)

- MATH 1111 - College Algebra GE (3)
OR
- MATH 1620 - Introduction to Geometry and Decision Making for Educators GE (3)

Engineering and Technical Teacher Education Option Total: 122 Semester Hours

¹⁰ Competency 10 course

Secondary Education, BSE (41-695) - English Option (E311) (120 hours)

Teacher Education Policy

Major Requirements: 48 Semester Hours

- ENGL 2010 - Introduction to Reading Poetry and Drama GE (3)
- ENGL 2020 - Introduction to Reading Fiction GE (3)
- ENGL 2220 - World Masterpieces GE (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 4360 - Shakespeare (3)
- ENGL 4840 - Composition and Evaluation (3)
- Electives in ENGL (2000/3000/4000) (3)

Select one course from each of the five following areas: 15 Semester Hours

Must include six hours of American Literature.

Area 1

- ENGL 4310 - Chaucer (3)
- ENGL 4330 - Renaissance English Writers (3)
- ENGL 4340 - Old and Middle English Literature (3)
- ENGL 4390 - Special Topics in Medieval & Renaissance Literature (3)

Area 2

- ENGL 4450 - The Age of Milton (3)
- ENGL 4460 - Wits and Satirists: 1660-1800 (3)
- ENGL 4490 - Special Topics in 17th and 18th Century Literature (3)
- ENGL 4620 - Early American Literature (3)

Area 3

- ENGL 4500 - Nineteenth Century English Novel (3)
- ENGL 4510 - Romantic Poets and Essayists (3)
- ENGL 4540 - Victorian Poetry (3)
- ENGL 4590 - Special Topics in 19th Century Literature (3)
- ENGL 4610 - American Renaissance (3)
- ENGL 4640 - American Realists and Naturalists (3)

Area 4

- ENGL 4700 - British Fiction 1890 to Present (3)
- ENGL 4710 - Modern American Fiction (3)
- ENGL 4720 - Modern British Poetry (3)
- ENGL 4730 - Modern American Poetry (3)
- ENGL 4740 - Modern Drama (3)
- ENGL 4790 - Special Topics in 20th and 21st Century Literature (3)

Area 5

- ENGL 4670 - Ethnic American Literature (3)
- ENGL 4680 - African American Literature (3)

Professional Education: 39 Semester Hours

Must earn a 3.00 GPA or higher with no grade lower than a C in Professional Education courses.

- EDFL 2100 - Introduction to the Teaching Profession (3)
- EDFL 2240 - Educational Psychology GE (3)
- EDFL 2250 - Introduction to English Language Learners and Culturally Responsive Pedagogy (2)
- EDFL 4210 - Introduction to Content Area Literacy (2)
- EDFL 4970 - Secondary Teaching and Behavioral Management (2)
- EDSP 2100 - Education of the Exceptional Child (3)
- ENGL 4972 - Content Literacy in Secondary English/Language Arts (4)
- ENGL 4973 - Classroom Management in Secondary English/Language Arts (1)
- ENGL 4974 - Assessment in Secondary English/Language Arts (1)
- FLDX 2150 - Introductory Field Experience (1)
- FLDX 3000 - Field Experience in the Content Area (1)
- FLDX 4970 - Field Experience II in the Content Area (1)

- CFD 1220 - Child and Adolescent Development (3)
OR
- PSY 2220 - Child and Adolescent Psychological Development (3)
OR
- PSY 3220 - Life-Span Development (3)

Student Teaching Semester: 12 Semester Hours

- ENGL 4890 - Methods of Teaching English (3)
- FLDX 4468 - Student Teaching Secondary II (1-12) (4) ¹⁰
- FLDX 4595 - Student Teaching Secondary I (1-12) (5)

General Education: 33 Semester Hours

All students must complete a minimum of 42 credits hours in general education. See The General Education Program Requirements for full listing of requirements. Some General Education courses included in the major are used to satisfy General Education requirements, but additional courses within the same General Education categories are not.

Besides those listed above, the following General Education classes are required in this program:

- EDFL 2240 - Educational Psychology GE (3)
- ENGL 2010 - Introduction to Reading Poetry and Drama GE (3)
- ENGL 2220 - World Masterpieces GE (3)
- POLS 1510 - American Government GE (3)

- HIST 1350 - History of the United States to 1877 GE (3)

OR

- HIST 1351 - History of the United States from 1877 GE (3)

English Option Total: 120 Semester Hours

¹⁰ Competency 10 course

Secondary Education, BSE (41-695) - Family Consumer Sciences Teacher Education Option (E572) (120 hours)

Teacher Education Policy

Secondary Education, BSE (41-695) - Family Consumer Sciences Teacher Education Option (E572) (4 Year Guide)

Major Requirements: 42 Semester Hours

- CFD 1010 - Individual and Family Relationships GE (3)
- CFD 3230 - Family Systems and Lifespan Development (3)
- CFD 3240 - Parent-Child Interaction (3)
- CTE 1000 - Introduction to Career and Technical Education (1)
- D&N 3340 - Nutrition (3)
- FAME 1450 - Fundamentals of Apparel Design and Construction (3: 2 lecture, 1 lab)
- FAME 2442 - Textile Science (3)
- FAME 4410 - Materials for Interior Furnishings (3)
- FCSE 2000 - FCS Student Organizations (1)
- FCSE 3120 - Family Resource Management (3)
- FCSE 3710 - Foundations of Family Consumer Sciences Education (3)
- FOOD 2320 - Sanitation and Safety (1)
- FOOD 2322 - Food Preparation (3: 2 lecture, 1 lab)
- PSY 3220 - Life-Span Development (3)

- BTE 3110 - Consumer Finance and Economics (3)
OR
- FIN 1820 - Personal Finance GE (3)

- CFD 4220 - Sexuality Across the Lifespan (3)
OR
- HLTH 1100 - Personal Health GE (3)
OR
- HLTH 4320 - Teaching Sexuality Education in the School (3)

Professional Education: 43 Semester Hours

Must earn a 3.00 GPA or higher with no grade lower than a C in Professional Education courses.

- CTE 4145 - Curriculum Construction in Career and Technical Education (3)

- EDFL 2100 - Introduction to the Teaching Profession (3)
- EDFL 2240 - Educational Psychology GE (3)
- EDFL 4210 - Introduction to Content Area Literacy (2)
- EDFL 4970 - Secondary Teaching and Behavioral Management (2)
- EDFL 4971 - K-12 Content Area Literacy (1)
- EDSP 2100 - Education of the Exceptional Child (3)
- FLDX 2150 - Introductory Field Experience (1)

- CFD 1220 - Child and Adolescent Development (3)
OR
- PSY 2220 - Child and Adolescent Psychological Development (3)

Junior Block: 4 Semester Hours

- CTE 4973 - CTE Classroom and Lab Management Techniques (1)
- EDFL 2250 - Introduction to English Language Learners and Culturally Responsive Pedagogy (2)
- FLDX 3000 - Field Experience in the Content Area (1)

Senior Block: 6 Semester Hours

- CTE 4160 - Methods of Teaching Career and Technical Education (3)
- CTE 4974 - Educational Evaluation and Strategies (2)
- FLDX 4970 - Field Experience II in the Content Area (1)

Student Teaching Semester: 12 Semester Hours

- FLDX 4468 - Student Teaching Secondary II (1-12) (6) ¹⁰
- FLDX 4595 - Student Teaching Secondary I (1-12) (6)

General Education: 36-39 Semester Hours

All students must complete a minimum of 42 credits hours in general education. See The General Education Program Requirements for full listing of requirements. Some General Education courses included in the major are used to satisfy General Education requirements, but additional courses within the same General Education categories are not.

Besides those listed above, the following General Education classes are required in this program:

- CHEM 1104 - Introduction to the Sciences: Chemistry GE (4: 4 lecture, 0 lab)
- EDFL 2240 - Educational Psychology GE (3)

- FIN 1820 - Personal Finance GE (3)
OR
- HLTH 1100 - Personal Health GE (3)

- HIST 1350 - History of the United States to 1877 GE (3)
OR
- HIST 1351 - History of the United States from 1877 GE (3)

Family Consumer Sciences Teacher Education Option Total: 120 Semester Hours

¹⁰ Competency 10 course

Secondary Education, BSE (41-695) - Mathematics Option (E459) (120 hours)

Teacher Education Policy

Secondary Education, BSE (41-695) - Mathematics Option (E459) (4 Year Guide)

Major Requirements: 40.5 Semester Hours

- CS 1100 - Computer Programming I (3)
- MATH 1151 - Calculus I GE (5)
- MATH 1152 - Calculus II (5)
- MATH 1850 - Orientation Seminar (0.5)
- MATH 2221 - Foundations of Geometry (3)
- MATH 2410 - Discrete Mathematics (3)
- MATH 2861 - Advanced Perspectives on High School Mathematics (3)
- MATH 2862 - Advanced Perspective on Secondary Geometry and Trigonometry (3)
- MATH 3710 - Linear Algebra (3)
- MATH 3850 - Strategies in Teaching Secondary Mathematics (3)
- MATH 4233 - The Scientific, Historical, and Sociological Impact of Mathematics (3)
- MATH 4710 - Algebraic Structures (3)
- MATH 4851 - Probability and Statistics for Middle/High School Mathematics (3)

Professional Education: 42 Semester Hours

Must earn a 3.00 GPA or higher with no grade lower than a C in Professional Education courses.

- EDFL 2100 - Introduction to the Teaching Profession (3)
- EDFL 2240 - Educational Psychology GE (3)
- EDFL 2250 - Introduction to English Language Learners and Culturally Responsive Pedagogy (2)
- EDFL 4210 - Introduction to Content Area Literacy (2)
- EDFL 4212 - Literacy in the Disciplines I (2)
- EDFL 4970 - Secondary Teaching and Behavioral Management (2)
- EDFL 4972 - Literacy in the Disciplines II (2)
- EDSP 2100 - Education of the Exceptional Child (3)
- FLDX 2150 - Introductory Field Experience (1)
- FLDX 3000 - Field Experience in the Content Area (1)
- FLDX 4970 - Field Experience II in the Content Area (1)
- MATH 4880 - Issues and Methods of Teaching Secondary Mathematics (3)
- MATH 4973 - Engaging Secondary Mathematics Learners (1)
- MATH 4974 - Assessment in the Mathematics Classroom (1)

- CFD 1220 - Child and Adolescent Development (3)
OR
- PSY 2220 - Child and Adolescent Psychological Development (3)

Student Teaching Semester: 12 Semester Hours

- FLDX 4468 - Student Teaching Secondary II (1-12) (6) ¹⁰
- FLDX 4595 - Student Teaching Secondary I (1-12) (6)

General Education: 36 Semester Hours

All students must complete a minimum of 42 credits hours in general education. See The General Education Program Requirements for full listing of requirements. Some General Education courses included in the major are used to satisfy General Education requirements, but additional courses within the same General Education categories are not.

Besides those listed above, the following General Education classes are required in this program:

- EDFL 2240 - Educational Psychology GE (3)
- MATH 1151 - Calculus I GE (5)
- POLS 1510 - American Government GE (3)
- HIST 1350 - History of the United States to 1877 GE (3)
OR
- HIST 1351 - History of the United States from 1877 GE (3)

Free Electives: 1.5 Semester Hours

Mathematics Option Total: 120 Semester Hours

¹⁰ Competency 10 course

Secondary Education, BSE (41-695) - Physics Option (E486) (124-120 hours)

Teacher Education Policy

Secondary Education, BSE (41-695) - Physics Option (E486) (4 Year Guide)

Major Requirements: 55-68 Semester Hours

General Science: 32-33 Semester Hours

- BIOL 1112 - Animal Biology (4: 3 lecture, 1 lab)
- CHEM 1131 - General Chemistry I GE (5: 5 lecture, 0 lab)
- GEOS 1004 - Introduction to Geology GE (4: 3 lecture, 1 lab)

- MATH 1151 - Calculus I GE (5)
- STCH 3020 - Science and Engineering Practices GE (3)
- ((BIOL 1003 - Introduction to the Sciences: Ecology GE (3)
OR
- BIOL 1005 - Introduction to Environmental Science GE (3))
AND
- BIOL 1006 - Environmental Science/Ecology Lab GE (1:1 lab)) (4)
- PHYS 1101 - College Physics I GE (4: 4 lecture, 0 lab)
OR
- PHYS 2121 - University Physics I GE (5: 5 lecture, 0 lab)
- PSY 2220 - Child and Adolescent Psychological Development (3)
OR
- PSY 3220 - Life-Span Development (3)
² This course has a prerequisite.

Physics: 23-27 Semester Hours

- CHEM 1132 - General Chemistry II (5: 5 lecture, 0 lab)
- CS 1100 - Computer Programming I (3)
- CHEM 4531 - Physical Chemistry: Thermodynamics and Kinetics (4: 4 lecture, 0 lab)
OR
- PHYS 4411 - Thermodynamics (3)
- CHEM 4532 - Physical Chemistry: Quantum Mechanics and Spectroscopy (4: 4 lecture, 0 lab)
OR
- (PHYS 3080 - Advanced Physics Laboratory (1-3) (1)
AND
- PHYS 3511 - Modern Physics I (3)) (4)
- PHYS 1102 - College Physics II (4: 4 lecture, 0 lab)
OR
- PHYS 2122 - University Physics II (5: 5 lecture, 0 lab)

Physics electives: 4-6 Semester Hours

- GEOS 1112 - Astronomy (3)
- PHYS 3020 - Special Topics in Physics (1-4)
- PHYS 3080 - Advanced Physics Laboratory (1-3)
- PHYS 3211 - Analytical Mechanics I (3)
- PHYS 3512 - Modern Physics II (3)
- PHYS 3611 - Optics (3)
- PHYS 4312 - Electricity and Magnetism (3)
- PHYS 4512 - Introduction to Quantum Mechanics (3)
- PHYS 4911 - Special Problems in Physics (1-3)

Professional Education: 37 Semester Hours

Must earn a 3.00 GPA or higher with no grade lower than a C in Professional Education courses.

- EDFL 2100 - Introduction to the Teaching Profession (3)
- EDFL 2240 - Educational Psychology GE (3)
- EDFL 2250 - Introduction to English Language Learners and Culturally Responsive Pedagogy (2)
- EDFL 4210 - Introduction to Content Area Literacy (2)
- EDFL 4212 - Literacy in the Disciplines I (2)
- EDFL 4970 - Secondary Teaching and Behavioral Management (2)
- EDFL 4972 - Literacy in the Disciplines II (2)
- EDFL 4973 - Classroom Management in Content Areas (1)
- EDFL 4974 - Content Specific Assessment (1)
- EDSP 2100 - Education of the Exceptional Child (3)
- FLDX 2150 - Introductory Field Experience (1)
- FLDX 3000 - Field Experience in the Content Area (1)
- FLDX 4970 - Field Experience II in the Content Area (1)
- STCH 4010 - Exploring Firsthand Science Lessons (1-2) (1)
- STCH 4050 - Science Teaching Methods (3)

Student Teaching Semester: 12 Semester Hours

- FLDX 4468 - Student Teaching Secondary II (1-12) (4) ¹⁰
- FLDX 4595 - Student Teaching Secondary I (1-12) (4)
- STCH 4080 - Science Learning and Literacy (4)

General Education: 32-33 Semester Hours

All students must complete a minimum of 42 credits hours in general education. See The General Education Program Requirements for full listing of requirements. Some General Education courses included in the major are used to satisfy General Education requirements, but additional courses within the same General Education categories are not.

Besides those listed above, the following General Education classes are required in this program:

- EDFL 2240 - Educational Psychology GE (3)
- POLS 1510 - American Government GE (3)

- HIST 1350 - History of the United States to 1877 GE (3)
OR
- HIST 1351 - History of the United States from 1877 GE (3)

Physics Option Total: 124-130 Semester Hours

¹⁰ Competency 10 course

Secondary Education, BSE (41-695) - Social Studies Option (E264) (122 hours)

Teacher Education Policy

Secondary Education, BSE (41-695) - Social Studies Option (E264) (4 Year Guide)

Major Requirements: 45 Semester Hours

- ECON 1010 - Principles of Macroeconomics GE (3)
- ECON 1011 - Principles of Microeconomics GE (3)
- GEOG 2212 - World Geography GE (3)
- HIST 1350 - History of the United States to 1877 GE (3)
- HIST 1351 - History of the United States from 1877 GE (3)
- HIST 1400 - History of the Early World GE (3)
- HIST 1401 - History of the Early Modern World GE (3)
- HIST 1402 - History of the Modern World GE (3)
- POLS 1510 - American Government GE (3)
- POLS 2511 - State Government GE (3)
- PSY 1100 - General Psychology GE (3)
- SOC 1800 - General Sociology GE (3)
- Upper-level electives in HIST 43** (6)
- Upper-level World History electives in HIST 44** or ANTH 3000/4000 or POLS 3000/4000 (3)

Professional Education: 43 Semester Hours

Must earn a 3.00 GPA or higher with no grade lower than a C in Professional Education courses.

- EDFL 2100 - Introduction to the Teaching Profession (3)
- EDFL 2240 - Educational Psychology GE (3)
- EDFL 2250 - Introduction to English Language Learners and Culturally Responsive Pedagogy (2)
- EDFL 4210 - Introduction to Content Area Literacy (2)
- EDFL 4212 - Literacy in the Disciplines I (2)
- EDFL 4970 - Secondary Teaching and Behavioral Management (2)
- EDSP 2100 - Education of the Exceptional Child (3)
- FLDX 2150 - Introductory Field Experience (1)
- FLDX 3000 - Field Experience in the Content Area (1)
- FLDX 4970 - Field Experience II in the Content Area (1)
- PSY 3220 - Life-Span Development (3)
- SOSC 4074 - Methods of Teaching Social Studies (3)
- SOSC 4972 - Literacy in Social Studies (2)
- SOSC 4973 - Secondary Classroom Management in Social Studies (2)
- SOSC 4974 - Social Studies Assessment (1)

Student Teaching Semester: 12 Semester Hours

- FLDX 4468 - Student Teaching Secondary II (1-12) (6) ¹⁰
- FLDX 4595 - Student Teaching Secondary I (1-12) (6)

General Education: 34 Semester Hours

All students must complete a minimum of 42 credits hours in general education. See The General Education Program Requirements for full listing of requirements. Some General Education courses included in the major are used to satisfy General Education requirements, but additional courses within the same General Education categories are not.

Besides those listed above, the following General Education classes are required in this program:

- ANTH 1820 - Cultural Anthropology GE (3)
- HIST 1350 - History of the United States to 1877 GE (3)
- POLS 1510 - American Government GE (3)
- PSY 1100 - General Psychology GE (3)

Social Studies Option Total: 122 Semester Hours

¹⁰ Competency 10 course

Secondary Education, BSE (41-695) - Speech Communication and Theatre Option (E362) (123 hours)

Teacher Education Policy

Secondary Education, BSE (41-695) - Speech Communication and Theatre Option (E362) (4 Year Guide)

Major Requirements: 40 Semester Hours

- THEA 1500 - Acting (3)
- THEA 1600 - Stagecraft (3)
- THEA 1900 - Theatre Practicum (1) (2) - (1) Costume Shop and (1) Scene Shop
- THEA 2610 - Design Fundamentals (3)
- THEA 3630 - Studio Theatre I (1)
- THEA 3700 - Directing (3)
- THEA 4400 - Literature and History of the Theatre I (3)
- THEA 4730 - Studio Theatre II (1)
- COMM 1000 - Public Speaking GE (3)
- COMM 1200 - Introduction to Mass Communication GE (3)
- COMM 2100 - Introduction to Communication Theory (3)
- COMM 2330 - Communication in Small Groups/Teams (3)
- COMM 2340 - Argumentation and Debate (3)
- COMM 3391 - Teaching High School Speech and Debate (3)
- DANC 3210 - Musical Theatre Dance (3)

Professional Education: 41 Semester Hours

Must earn a 3.00 GPA or higher with no grade lower than a C in Professional Education courses.

- EDFL 2100 - Introduction to the Teaching Profession (3)
- EDFL 2240 - Educational Psychology GE (3)

- EDFL 2250 - Introduction to English Language Learners and Culturally Responsive Pedagogy (2)
- EDFL 4210 - Introduction to Content Area Literacy (2)
- EDFL 4212 - Literacy in the Disciplines I (2)
- EDFL 4970 - Secondary Teaching and Behavioral Management (2)
- EDFL 4972 - Literacy in the Disciplines II (2)
- EDFL 4973 - Classroom Management in Content Areas (1)
- EDFL 4974 - Content Specific Assessment (1)
- EDSP 2100 - Education of the Exceptional Child (3)
- FLDX 2150 - Introductory Field Experience (1)
- FLDX 3000 - Field Experience in the Content Area (1)
- FLDX 4970 - Field Experience II in the Content Area (1)
- THEA 4984 - Methods of Teaching Speech and Theatre (2)

- CFD 1220 - Child and Adolescent Development (3)
OR
- PSY 2220 - Child and Adolescent Psychological Development (3)
OR
- PSY 3220 - Life-Span Development (3)

Student Teaching Semester: 12 Semester Hours

- FLDX 4468 - Student Teaching Secondary II (1-12) (4) ¹⁰
- FLDX 4595 - Student Teaching Secondary I (1-12) (5)
- THEA 4920 - Secondary Field Experience II (1)
- THEA 4930 - Co-Curricular Practicum (2)

General Education: 42 Semester Hours

All students must complete a minimum of 42 credits hours in general education. See The General Education Program Requirements for full listing of requirements. Some General Education courses included in the major are used to satisfy General Education requirements, but additional courses within the same General Education categories are not.

Besides those listed above, the following General Education classes are required in this program:

- COMM 3000 - Film Appreciation GE (3)
- EDFL 2240 - Educational Psychology GE (3)
- POLS 1510 - American Government GE (3)
- THEA 1100 - Oral Interpretation GE (3)
- THEA 2400 - Discovering Theatre GE (3)
- WGS 2000 - Intersections: Gender, Race, Class GE (3)

- HIST 1350 - History of the United States to 1877 GE (3)
OR
- HIST 1351 - History of the United States from 1877 GE (3)

Speech Communication and Theatre Option Total: 123 Semester Hours

¹⁰ Competency 10 course

Special Education Minor (BSE) (891) (21 hours)

Minor, Bachelor of Science in Education Degree

We encourage all teacher education majors who have a willingness to work with a diverse population of special needs children to declare a Special Education minor. This minor provides sufficient coursework to enable the candidate to add on Mild/Moderate Cross-Categorical teaching certification after completion of the BSE degree and initial teacher certification. All courses listed here require the prerequisite course EDSP 2100 - Education of the Exceptional Child (3) for enrollment.

Minor Requirements: 21 Semester Hours

- EDSP 4140 - Collaborating With Families of Exceptional Children (3)
- EDSP 4210 - Teaching Emergent and At-Risk Readers (3)
- EDSP 4360 - Behavioral Management Techniques (2)
- EDSP 4361 - Practicum in Behavioral Management Techniques (1)
- EDSP 4385 - Introduction to Cross-Categorical Special Education (3)
- EDSP 4420 - Methods of Cross-Categorical Special Education (3)
- EDSP 4620 - Evaluation of Abilities and Achievement (3)
- EDSP 4700 - IEP and the Law (3)

Special Education, BSE (41-784) (120 hours)

Major, Bachelor of Science in Education Degree

Certification to teach cross-categorical disabilities K-12; severely developmentally disabled B-12; or early childhood special education Birth-Grade 3.

The graduate with a Bachelor of Science in Special Education will apply knowledge and skills obtained in the program to:

- Understand how exceptionalities may interact with development and learning and use this knowledge to provide meaningful and challenging learning experiences for individuals with exceptionalities.
- Create safe, inclusive, culturally responsive learning environments so that individuals with exceptionalities become active and effective learners and develop emotional well-being, positive social interactions, and self-determination.
- Use knowledge of general and specialized curricula to individualize learning for individuals with exceptionalities.
- Use multiple methods of assessment and data-sources in making educational decisions.
- Select, adapt, and use a repertoire of evidence-based instructional strategies to advance learning of individuals with exceptionalities.
- Use foundational knowledge of the field and the their professional Ethical Principles and Practice Standards to inform special education practice, to engage in lifelong learning, and to advance the profession.
- Collaborate with families, other educators, related service providers, individuals with exceptionalities, and personnel from community agencies in culturally responsive ways to address the needs of individuals with exceptionalities across a range of learning experiences.

Special Education, BSE (41-784) - Cross-Categorical Disabilities Area (SE01) (4 Year Guide)

Special Education, BSE (41-784) - Autism and Severe Disabilities Area (SE04) (odd year start plan) (4 Year Guide)

Special Education, BSE (41-784) - Autism and Severe Disabilities Area (SE04) (even year start plan) (4 Year Guide)

Special Education, BSE (41-784) - Early Childhood Special Education Area (SE03) (4 Year Guide)

Major Requirements: 46-54 Semester Hours

Core Requirements - All Certification Areas: 24 Semester Hours

- ECEL 3225 - Acquisition of Language and Literacy (3)
- EDSP 4140 - Collaborating With Families of Exceptional Children (3)
- EDSP 4210 - Teaching Emergent and At-Risk Readers (3)
- EDSP 4360 - Behavioral Management Techniques (2)
- EDSP 4361 - Practicum in Behavioral Management Techniques (1)
- EDSP 4620 - Evaluation of Abilities and Achievement (3)
- EDSP 4700 - IEP and the Law (3)
- MATH 3890 - Concepts and Methods of Teaching for Special Education (3)

- ECEL 2610 - Life & Earth Science for Teachers (3)
OR
- ECEL 2620 - Physical Science and Engineering Design for Teachers (3)

Area of Certification Requirements: 28-33 Semester Hours

Area 1 - Cross-Categorical Disabilities: 28 Semester Hours

- CD 4402 - Language Acquisition in Children with Developmental Disabilities (2)
- EDFL 3215 - Teaching Reading in Content Fields (3)
- EDFL 3410 - Children's Literature (3)
- EDSP 4150 - Career Development for Students with Disabilities (2)
- EDSP 4385 - Introduction to Cross-Categorical Special Education (3)
- EDSP 4421 - Methods of Cross-Categorical Special Education I: Intellectual Disabilities/Other Health Impairments (3)
- EDSP 4422 - Methods of Cross Categorical Disabilities II: Learning Disabilities (3)
- EDSP 4423 - Methods of Cross-Categorical Special Education III: Emotional/Behavioral Disorders (3)
- MATH 4890 - Mathematics for Special Education (3)

- ECEL 2510 - Concepts in Elementary Social Studies I (3)
OR
- ECEL 2520 - Concepts in Elementary Social Studies II (3)

Area 2 - Autism and Severe Disabilities: 28 Semester Hours

- CD 4402 - Language Acquisition in Children with Developmental Disabilities (2)
- EDFL 3410 - Children's Literature (3)
- EDSP 4161 - Physical and Health Care Needs of Students with Autism and Severe Developmental Disabilities (2)
- EDSP 4310 - Introduction to Students with Autism and Severe Developmental Disabilities (2)
- EDSP 4330 - Curriculum and Methods for Teaching Students with Autism and Severe Developmental Disabilities I (3)
- EDSP 4350 - Augmentative and Alternative Communication (3)
- EDSP 4370 - Screening, Diagnosing and Prescribing Instruction (3)
- EDSP 4450 - Curriculum and Methods for Teaching Students with Autism and Severe Developmental Disabilities II (3)
- MATH 4890 - Mathematics for Special Education (3)
- NUR 4060 - Physical and Health Needs of the Medically Fragile Child (1)
- PE 4340 - Adapted Physical Education (3)

Area 3 - Early Childhood Special Education: 33 Semester Hours

- CFD 1220 - Child and Adolescent Development (3)
- CFD 1230 - Observation of Children (2)
- CFD 3250 - Organization and Administration of Programs for Young Children (3)
- ECEL 2850 - Integration of Arts & Movement in Early Childhood and Elementary Classrooms (3)
- EDSP 3150 - Community and Family Resources (2)
- EDSP 3151 - Community and Family Resources Practicum (1)
- EDSP 4320 - Introduction to Early Childhood Special Education (3)
- EDSP 4350 - Augmentative and Alternative Communication (3)
- EDSP 4370 - Screening, Diagnosing and Prescribing Instruction (3)
- EDSP 4440 - Curriculum and Methods for Teaching Early Childhood Special Education (3)

Professional Education Requirements - Cross-Categorical Disabilities and Autism and Severe Disabilities: 27-30 Semester Hours

Must earn a 3.00 GPA or higher with no grade lower than a C in Professional Education courses.

- EDFL 2100 - Introduction to the Teaching Profession (3)
- EDFL 2240 - Educational Psychology GE (3)
- EDFL 2250 - Introduction to English Language Learners and Culturally Responsive Pedagogy (2)
- EDSP 2100 - Education of the Exceptional Child (3)
- FLDX 2150 - Introductory Field Experience (1)

- CFD 1220 - Child and Adolescent Development (3)
- OR**
- PSY 2220 - Child and Adolescent Psychological Development (3)
- OR**
- PSY 3220 - Life-Span Development (3)

Student Teaching Semester:

- FLDX 4395 - Student Teaching in Special Education I (1-12) (8) ¹⁰
- FLDX 4468 - Student Teaching Secondary II (1-12) (4)

Professional Education Requirements - Early Childhood Special Education: 24-26 Semester Hours

Must earn a 3.00 GPA or higher with no grade lower than a C in Professional Education courses.

- EDFL 2100 - Introduction to the Teaching Profession (3)
- EDFL 2240 - Educational Psychology GE (3)
- EDFL 2250 - Introduction to English Language Learners and Culturally Responsive Pedagogy (2)
- EDSP 2100 - Education of the Exceptional Child (3)
- FLDX 2150 - Introductory Field Experience (1)

Student Teaching Semester:

- FLDX 4395 - Student Teaching in Special Education I (1-12) (6-8) ¹⁰
- FLDX 4396 - Student Teaching in Special Education II (1-12) (6)

General Education Requirement: 39 Semester Hours

All students must complete a minimum of 42 credit hours in general education. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major:

- EDFL 2240 - Educational Psychology GE (3)
- MATH 1620 - Introduction to Geometry and Decision Making for Educators GE (3)
- MATH 1820 - Introduction to Numbers and Operations for Educators GE (3)
- HIST 1350 - History of the United States to 1877 GE (3)
- OR
- HIST 1351 - History of the United States from 1877 GE (3)

Free Electives: 2-7 Semester Hours

Minimum Total: 120 Semester Hours

¹⁰Competency 10 course

Teaching in the Early Childhood Classroom (10-655) (14 hours)

Student Learning Outcomes*

After completion of the certificate courses the candidates will be able to:

- Build capacity in foundational beliefs, knowledge, and skills of early childhood education.

- Construct optimal learning environments.
- Understand developmentally appropriate curriculum, assessment and instructional practices.
- Build content knowledge for teaching young children.

*These outcomes are aligned with Standards 4 and 5 of the National Association for the Education of Young Children (NAEYC) Standards for Early Childhood Professional Preparation.

Admission Requirements:

- A minimum 2.5 GPA on any courses completed prior to admission.

Required Courses: 14 Semester Hours

- ECEL 2850 - Integration of Arts & Movement in Early Childhood and Elementary Classrooms (3)
- ECEL 3150 - Early Childhood Practicum (2) **
- ECEL 3225 - Acquisition of Language and Literacy (3) **
- ECEL 3830 - Early Childhood Curriculum (3) **
- ECEL 4000 - Special Projects in Education (1-6) (3) **

Note:

** This course has prerequisites not listed in the program; click on the course number for additional requirements.

**Understanding the Child in Early Childhood Education
Certificate (10-654) (13 hours)**

Student Learning Outcomes*

After completion of the certificate courses the candidates will be able to:

- Build capacity in foundational beliefs, knowledge, and skills of early childhood education.
- Understand influences on the child's development and learning.
- Understand supportive interactions for optimal growth, development, and learning.

*These outcomes are aligned with Standards 1 and 3 of the National Association for the Education of Young Children (NAEYC) Standards for Early Childhood Professional Preparation.

Admission Requirements:

- A minimum 2.5 GPA on any courses completed prior to admission.

Required Courses: 13 Semester Hours

- CFD 1220 - Child and Adolescent Development (3)
- ECEL 2830 - Early Childhood Principles and Observation (3) **
- ECEL 3850 - Development and Learning Through Play (3) **
- EDSP 2100 - Education of the Exceptional Child (3)
- FLDX 2150 - Introductory Field Experience (1)

Note:

** This course has prerequisites not listed in the program; click on the course number for additional requirements.

Harmon College of Business and Professional Studies

The Harmon College of Business and Professional Studies

Ward Edwards 1600

660-543-8577

Fax 660-543-8350

ucmo.edu/hcbps

The Harmon College of Business and Professional Studies is comprised of:

- School of Business Administration (SoBA)
 - School of Business Administration: Division of Business Analytics
 - School of Business Administration: Division of Business Strategy
- School of Aviation
- School of Human Services
- School of Public Services
- Missouri Safety Center

NOTE: Secondary Education: Business Teacher Education can be found with the College of Education degrees.

Click here for descriptions of all classes taught at the undergraduate level. Course descriptions can also be found online in MyCentral.

College Mission

We are a student-centered and professional community committed to continuous innovation and excellence in education, research and service.

School of Business Administration

<https://www.ucmo.edu/hcbps/>

The School of Business Administration is comprised of:

- School of Business Administration: Division of Business Analytics
- School of Business Administration: Division of Business Strategy

Accreditation

The School of Business Administration and the Accountancy program are accredited by AACSB International located at 777 South Harbour Island Boulevard, Suite 750, Tampa, FL 33602; phone 813-769-6500; web page aacsb.edu.

Bachelor of Science in Business Administration Degree Program

Statement of Policy

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 B.S.B.A. until he/she is notified in writing by a representative of the SoBA. Only those students who have been officially admitted to the B.S.B.A. program may file for an application for graduation for the B.S.B.A. degree.

The desire of the faculty in the SoBA 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 SoBA 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, ECON, ESE, FIN, HRM, MKT, MGT, RMI.**

**Deviations from this limit must be approved in writing by the dean of the Harmon College of Business and Professional Studies.

Bachelor of Science in Business Administration Admission Requirements.

Admission to all B.S.B.A. degree programs is conditional upon the completion of the school requirements and the following prerequisites:

1. The following pre-admission courses:

ACCT 1101 - Foundations of Financial Reporting
(3)

ACCT 2102 - Principles of Managerial Accounting (3)

BLAW 2720 - Legal Environment of Business (3)

CIS 1600 - Business Information Management GE (3)

ECON 1010 - Principles of Macroeconomics GE (3)

ECON 1011 - Principles of Microeconomics GE (3)

FIN 2801 - Business Statistics I (3)

MATH 1111 - College Algebra GE (3)

2. All students pursuing a B.S.B.A degree must earn a letter grade of C or better in each pre-admission course.

3. Attainment of a 2.25 or above (2.65 or above for admission to the B.S.B.A. in Accountancy, 2.40 or above for admission to the B.S.B.A. in Finance) cumulative grade-point average on a scale of 4.00 for all credit hours completed and attainment of 2.25 or above (2.65 or above for admission to the B.S.B.A. in Accountancy, 2.40 or above for admission to the B.S.B.A. in Finance) grade-point average on the 24 semester hours of pre-admission courses.
4. 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.
5. Admission to the B.S.B.A. program is in addition to university admission. Students will be admitted to the B.S.B.A. program once all admission criteria are met. Students are responsible to ensure that they have met all pre-admission criteria and have been officially admitted to the B.S.B.A. 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 major credit hours for a B.S.B.A. degree at UCM.
2. Students must achieve a minimum cumulative grade-point average of 2.25 (2.65 for Accountancy, 2.40 for Finance).

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 division offering the major.

Upper-level (3000/4000) courses cannot generally be transferred from a two-year institution and applied to a B.S.B.A. degree. However, the division chair responsible for the UCM course may elect to allow such a transfer for equivalent credit. Before the division chair may accept the transfer course for equivalent credit, the course must be validated through a division/program 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 division chair. The validation policy for the SoBA 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-level (3000/4000) course work transferred from a four-year institution must be reviewed by the division chair before such work can be applied to a B.S.B.A. degree. The division 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 courses. Exception to these rules concerning core courses may be granted by the chair of the division in the SoBA in which the course is offered. SoBA 3000 and 4000 level core courses are listed as an integral part of the 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 program in the SoBA.

High-Impact Learning Opportunities for Students in the School of Business Administration

- Class projects coordinated by the Center for Business Internships and Partner Development
- Co-curricular activities
- Integrative Business Experience (IBE)
- Internships through the Center for Business Internships
- Innovative PR
- R.ed Investment Management (Student Managed Investment Fund)
- R.ed Marketing
- VITA (Volunteer Income Tax Assistance)

School of Business Administration: Division of Business Analytics

Division of Business Analytics

Dockery 300

660-543-4631 Accountancy - accountancy@ucmo.edu

660-543-4767 Computer Information Systems & Analytics - cis@ucmo.edu

660-543-4246 Economics & Finance - econfin@ucmo.edu

ucmo.edu/efa

ucmo.edu/cis

Accountancy Statement of Policy

All students must refer to School of Business Administration for the Statement of Policy on Admission to a B.S.B.A. degree program.

Accountancy offers the following degree options:

- B.S.B.A.- Accountancy
- M.A.- Accountancy (for details about this degree see the graduate catalog)
- A combined 150-hour B.S.B.A./M.A. in Accountancy

A minor in accountancy is also offered.

For admission to the accountancy major, a student must have a cumulative GPA of 2.65 (4.00 scale) or higher on all completed undergraduate college credit and a 2.65 GPA or higher on the 24 semester hours of B.S.B.A. pre-admission courses. To graduate with a BSBA, major in Accountancy, a student must have a cumulative GPA of 2.65 or higher. Any exceptions to this policy must be approved by the Chair of the Division of Business Analytics.

A minimum grade of C must be earned in the following courses if they are to be applied toward the fulfillment of an accountancy major or minor: ACCT 1101, ACCT 2000, ACCT 2102, ACCT 2901, ACCT 3102, ACCT 3103, ACCT 3120, ACCT 3130, and ACCT 3160.

A student with an Accountancy major or minor may enroll in a course offered by the Accountancy program only if a minimum grade of at least C is earned in each of the course's accounting prerequisites.

For admission to the 150-hour Bachelor of Science in Business Administration/Master of Arts Degree, a student must have a cumulative GPA of 3.00 (4.00 scale) or higher for the first 60 hours of undergraduate college credit, a GPA of 3.00 (or above) for the 24 semester hours of B.S.B.A. pre-admission courses, and a grade of B or higher in ACCT 1101, ACCT 2000, ACCT 2102, and ACCT 2901. A student must earn a minimum grade of C in all other accounting and business courses. A student must have an overall 3.00 GPA in all graduate courses to be awarded the MA in Accountancy. A student must apply for admission to the 150-hour Bachelor of Science in Business Administration/Master of Arts program when enrolled in the first 3000-level accounting course.

Accountancy Minor (326) (21 hours)

Minor for a Bachelor's Degree

UCM does not confer teacher certification for this minor.

Minor Requirements: 21 Semester Hours

- ACCT 1101 - Foundations of Financial Reporting (3)
- ACCT 2000 - Accountancy Majors Practicum (1)
- ACCT 2102 - Principles of Managerial Accounting (3)
- ACCT 2901 - Intermediate Financial Accounting I (3)
- ACCT 3102 - Intermediate Financial Accounting II (3)
- ACCT 3103 - Intermediate Financial Accounting III (3)
- ACCT 3130 - Introduction to Income Tax (3)
- ACCT 4200 - Governmental Accounting (2)

Accountancy, BSBA (46-259) (120 hours)

Major, Bachelor of Science in Business Administration Degree

The design of the undergraduate degree for accounting students is to provide students with sufficient technical and professional accounting knowledge as well as the skills that form the foundation for a career in accounting and to engage in a life-long learning process. The Accountancy program has identified the following undergraduate Program Goals and Student Learning Objectives:

Goal 1: Accounting Skills & Knowledge - students will possess the accounting skills and knowledge necessary to succeed in the accounting profession.

1.1: Students can solve accounting problems using appropriate methods.

1.2: Students can prepare and interpret accounting reports.

Goal 2: Professional responsibilities - students will understand an accountant's ethical and regulatory responsibilities.

2.1: Student can apply professional conduct standards to solve ethical dilemmas.

2.2: Students can identify relevant regulatory responsibilities.

Goal 3: Information Technology Skills & Knowledge - students will be able to utilize information skills and knowledge to analyze electronic information.

3.1: Students can effectively utilize accounting information technology.

3.2: Students can interpret the results of accounting analytics.

Goal 4: Communication - students will communicate effectively.

4.1: Students can demonstrate effective oral communication.

4.2: Students can demonstrate effective written communication.

Accountancy, BSBA (46-259) (4 Year Guide)

Major Requirements: 72 Semester Hours

- ACCT 1101 - Foundations of Financial Reporting (3) *
- ACCT 2000 - Accountancy Majors Practicum (1)
- ACCT 2102 - Principles of Managerial Accounting (3) *
- ACCT 2901 - Intermediate Financial Accounting I (3)
- ACCT 3102 - Intermediate Financial Accounting II (3)
- ACCT 3103 - Intermediate Financial Accounting III (3)
- ACCT 3120 - Cost and Managerial Accounting (3)
- ACCT 3130 - Introduction to Income Tax (3)
- ACCT 3160 - Accounting Information Systems (3)
- ACCT 4105 - Auditing (3)
- ACCT 4130 - Advanced Income Tax (3)
- ACCT 4200 - Governmental Accounting (2)
- BLAW 2720 - Legal Environment of Business (3) *
- BLAW 3721 - Law of Business Transactions (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 Communication (3)
- MGT 3360 - Supply Chain and Operations Management (3)
- MGT 4357 - Organizational Policy and Strategy (3) ¹⁰
- MKT 3405 - Principles of Marketing (3)
- 3000- or 4000-level Non-Accounting Business Electives (6)

- CIS 3650 - Database Management Systems (3)
OR
- ECON 4085 - Predictive Analytics (3)

General Education Requirements: 43 Semester Hours

All students must complete a minimum of 42 credit hours in general education. Some majors require additional hours due to required coursework. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major:

- CIS 1600 - Business Information Management GE (3) *
- COMM 1000 - Public Speaking GE (3)
OR
- COMM 1050 - Fundamentals of Oral Communication Competency GE (3)
OR
- MKT 1401 - Professional Speaking and Presentation GE (3)
- ECON 1010 - Principles of Macroeconomics GE (3) *
- ECON 1011 - Principles of Microeconomics GE (3) *
- MATH 1111 - College Algebra GE (3) *

Free Electives: 5 Semester Hours

Minimum Undergraduate Total: 120 Semester Hours

¹⁰Competency 10 course

*Students expecting to receive the B.S.B.A. degree must meet all preadmission requirements to be admitted to this program. See the Statement of Policy on Admission to a B.S.B.A. degree program. Pre-admission courses include: ACCT 1101, ACCT 2102, BLAW 2720, CIS 1600, ECON 1010, ECON 1011, FIN 2801, and MATH 1111.

Big Data and Business Analytics Minor (667) (21 hours)

Minor for a Bachelor's Degree

UCM does not confer teacher certification for this minor.

Minor Requirements: 21 Semester Hours

- CIS 1625 - Programming With Visual C# (3)
- CIS 3650 - Database Management Systems (3) *
- CIS 4680 - Data Resource Management (3)
- CIS 4681 - Big Data for the Enterprise (3)
- FIN 2801 - Business Statistics I (3) **
- FIN 3801 - Business Statistics II (3)
- ECON 4085 - Predictive Analytics (3)

Note:

*This course has a prerequisite (CIS 1600). Student should take this course or an equivalent.

** This course has a prerequisite (MATH 1111). Student should take this course or an equivalent.

Big Data and Business Analytics, BSBA (46-640) (120 hours)

Major, Bachelor of Science in Business Administration Degree

Big Data and Business Analytics, BSBA (46-640) (4 Year Guide)

Major Requirements: 77 Semester Hours

- ACCT 1101 - Foundations of Financial Reporting (3) *
- ACCT 2102 - Principles of Managerial Accounting (3) *
- BLAW 2720 - Legal Environment of Business (3) *
- CIS 1625 - Programming With Visual C# (3)
- CIS 2625 - Web Application Architecture (3)
- CIS 2665 - Principles of Data Communications and Local Area Networking (3)
- CIS 3630 - Management Information Systems (3)
- CIS 3650 - Database Management Systems (3)
- CIS 4645 - Network and System Security (3)
- CIS 4680 - Data Resource Management (3)
- CIS 4681 - Big Data for the Enterprise (3)
- CIS 4683 - Big Data Visualization & Reporting (3)
- ECON 1011 - Principles of Microeconomics GE (3) *
- ECON 4085 - Predictive Analytics (3)
- ECON 4090 - Analytical Applications to Business (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 Communication (3)
- MGT 3360 - Supply Chain and Operations Management (3)
- MGT 4357 - Organizational Policy and Strategy (3) ¹⁰
- MKT 3405 - Principles of Marketing (3)

Electives from the Following: 8 Semester Hours

- CIS 3690 - Internship in Big Data and Business Analytics (3-9) (3-6)
- CIS 4610 - Special Projects (1-3)
- CIS 4640 - Web Application Development (3)
- CIS 4655 - Software Engineering (3)
- ECON 4030 - Directed Studies in Economics (1-3) (3)
- Other CIS 3000/4000 level courses can also be taken as electives, subject to course prerequisites.

General Education Requirements: 43 Semester Hours

All students must complete a minimum of 42 credit hours in general education. Some majors require additional hours due to required coursework. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major:

- CIS 1600 - Business Information Management GE (3)
- CIS 1612 - Ethics in Information Technology GE (3)
- ECON 1010 - Principles of Macroeconomics GE (3) *
- MATH 1111 - College Algebra GE (3) *

- COMM 1000 - Public Speaking GE (3)
OR
- COMM 1050 - Fundamentals of Oral Communication Competency GE (3)
OR
- MKT 1401 - Professional Speaking and Presentation GE (3)

Minimum Total: 120 Semester Hours

¹⁰ Competency 10 course

* Students expecting to receive the B.S.B.A. degree must meet all pre-admission requirements to be admitted to this program. See the Statement of Policy on Admission to a B.S.B.A. degree program. Pre-admission courses include: ACCT 1101, ACCT 2102, BLAW 2720, CIS 1600, ECON 1010, ECON 1011, FIN 2801, and MATH 1111.

Computer Information Systems Minor (535) (21 hours)

Minor for a Bachelor's Degree (535)

UCM does not confer teacher certification for this minor.

Minor Requirements: 21 Semester Hours

- CIS 1600 - Business Information Management GE (3)
- CIS 1625 - Programming With Visual C# (3)
- CIS 2625 - Web Application Architecture (3)
- CIS 2665 - Principles of Data Communications and Local Area Networking (3)

- CIS 3650 - Database Management Systems (3)
OR
- CIS 3660 - Analysis and Design of Computer Information Systems (3)

- ACCT 1101 - Foundations of Financial Reporting (3)
- ACCT 2102 - Principles of Managerial Accounting (3)

Computer Information Systems, BSBA (46-266) (120 hours)

Major, Bachelor of Science in Business Administration Degree

The graduate with a Bachelor of Science degree in Business Administration with a major in Computer Information Systems will use the knowledge and skills obtained in the program to:

- Analyze technology-related, business problems and design solutions by applying appropriate analysis processes, methodologies and tools.

- Design, develop, and maintain application software, to be deployed on various devices, using suitable software engineering and design methodologies, programming languages, and web-development tools commonly adopted by businesses and other organizations.
- Design, implement and manage enterprise information technology systems and networks supporting mobile computing platforms, web-sites, and servers.
- Design, develop, and maintain databases using current database management systems.
- Design user interaction to facilitate the user's task and experience.
- Analyze risks and implement security measures for organizational computing environments.
- Apply project management skills and use project management software when creating a business solution; work collaboratively with others showing leadership, as appropriate.
- Use productivity software effectively.
- Communicate effectively in oral and written form; participate fully in group discussion and activities.
- Demonstrate knowledge of professional and ethical expectations in the work place.

Computer Information Systems, BSBA (46-266) (Area 1: Software Development) (4 Year Guide)

Computer Information Systems, BSBA (46-266) (Area 2: Networking) (4 Year Guide)

Major Requirements: 77 Semester Hours

- CIS 1625 - Programming With Visual C# (3)
- CIS 2625 - Web Application Architecture (3)
- CIS 2665 - Principles of Data Communications and Local Area Networking (3)
- CIS 3630 - Management Information Systems (3)
- CIS 3650 - Database Management Systems (3)
- CIS 3660 - Analysis and Design of Computer Information Systems (3)
- CIS 4690 - Systems Architecture and Development (3)
- ACCT 1101 - Foundations of Financial Reporting (3) *
- ACCT 2102 - Principles of Managerial Accounting (3) *
- BLAW 2720 - Legal Environment of Business (3) *
- ECON 1011 - Principles of Microeconomics GE (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 Communication (3)
- MGT 3360 - Supply Chain and Operations Management (3)
- MGT 4357 - Organizational Policy and Strategy (3) ¹⁰
- MKT 3405 - Principles of Marketing (3)

Four courses from one of the following Areas: 12 Semester Hours

Area 1 - Software Development

- CIS 3625 - Business Application Development with Java (3)
- CIS 3670 - User Experience Design (3)
- CIS 4680 - Data Resource Management (3)
- CIS 4660 - Advanced Applications Development Using JAVA (3)

OR

- CIS 4670 - Applications Development Using Visual C# (3)

Area 2 - Networking, System Administration and Security

- CIS 3665 - Data Communication Technologies (3)
- CIS 4645 - Network and System Security (3)
- CIS 4665 - Data Communication and Distributed Data Processing (3)
- CIS 4685 - Network Planning, Design and Security (3)

Area 3 - Mobile and Web Development

- CIS 3625 - Business Application Development with Java (3)
- CIS 3670 - User Experience Design (3)
- CIS 4640 - Web Application Development (3)
- CIS 4675 - Mobile Business Application Development (3)

Electives: 8 Semester Hours

- CIS 3695 - Internship in Computer Information Systems (3-9) (3)
- CIS 4610 - Special Projects (1-3)
- CIS 4625 - Information Security Management (3)
- CIS 4635 - Seminar in Business Computer Applications (2-3)
- CIS 4640 - Web Application Development (3)
- CIS 4655 - Software Engineering (3)
- CIS 4675 - Mobile Business Application Development (3)

Note:

Any CIS course in the tracks (prerequisites apply).

Any ET courses approved by the school.

General Education Requirement: 43 Semester Hours

All students must complete a minimum of 42 credit hours in general education. Some majors require additional hours due to required coursework. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major:

- CIS 1600 - Business Information Management GE (3) *
- CIS 1612 - Ethics in Information Technology GE (3)

- COMM 1000 - Public Speaking GE (3)
- OR**
- COMM 1050 - Fundamentals of Oral Communication Competency GE (3)
- OR**
- MKT 1401 - Professional Speaking and Presentation GE (3)

- ECON 1010 - Principles of Macroeconomics GE (3) *
- MATH 1111 - College Algebra GE (3) *

Minimum Total: 120 Semester Hours

¹⁰Competency 10 course

*Students expecting to receive the B.S.B.A. degree must meet all preadmission requirements to be admitted to this program. See the Statement of Policy on Admission to a B.S.B.A. degree program. Pre-admission courses include: ACCT 1101, ACCT 2102, BLAW 2720, CIS 1600, ECON 1010, ECON 1011, FIN 2801, and MATH 1111.

Economics Minor (538) (21 hours)

Minor for a Bachelor's Degree

UCM does not confer teacher certification for this minor.

Minor Requirements: 21 Semester Hours

- ECON 1010 - Principles of Macroeconomics GE (3)
- ECON 1011 - Principles of Microeconomics GE (3)
- Electives in economics (15) **

Note:

**Must include at least one upper-level (3000/4000) course to meet graduation requirements.

Economics, BSBA (46-611) (120 hours)

Major, Bachelor of Science in Business Administration Degree

The graduate with a Bachelor of Science in Business Administration degree in Economics will use the knowledge and skills obtained in the program to:

- Use economic models to study behavior and can interpret the results of their models.
- Use these results to make inferences and draw conclusions.
- Calculate and interpret descriptive statistics.
- Communicate economic ideas and information in written and spoken form.

Economics, BSBA (46-611) (4 Year Guide)

Major Requirements: 57 Semester Hours

- ACCT 1101 - Foundations of Financial Reporting (3) *
- ACCT 2102 - Principles of Managerial Accounting (3) *
- BLAW 2720 - Legal Environment of Business (3) *
- CIS 3630 - Management Information Systems (3)

- ECON 3010 - Intermediate Macroeconomics (3)
- ECON 3030 - Intermediate Microeconomics (3)
- ECON 4000 - Senior Seminar in Economics (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 Communication (3)
- MGT 3360 - Supply Chain and Operations Management (3)
- MGT 4357 - Organizational Policy and Strategy (3) ¹⁰
- MKT 3405 - Principles of Marketing (3)

Electives from the Following: 12 Semester Hours

- ECON 3020 - Money and Banking (3) #
- ECON 3035 - Internship in Economics (1-6) (1-3)
- ECON 3065 - Labor Economics (3) #
- ECON 4010 - International Economics (3) #
- ECON 4020 - Natural Resource Economics (3)
- ECON 4050 - Comparative Economic Systems (3) #
- ECON 4054 - Sports Economics (3) #
- ECON 4060 - Game Theory (3)
- ECON 4065 - Managerial Economics (3)
- ECON 4075 - Time Series Analysis (3)
- ECON 4080 - Econometrics I (3) #
- ECON 4085 - Predictive Analytics (3)

General Education Requirement: 43 Semester Hours

All students must complete a minimum of 42 credit hours in general education. Some majors require additional hours due to required coursework. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major:

- CIS 1600 - Business Information Management GE (3) *
- ECON 1010 - Principles of Macroeconomics GE (3) *
- ECON 1011 - Principles of Microeconomics GE (3) *
- MATH 1111 - College Algebra GE (3) *

- COMM 1000 - Public Speaking GE (3)
- OR**
- COMM 1050 - Fundamentals of Oral Communication Competency GE (3)
- OR**
- MKT 1401 - Professional Speaking and Presentation GE (3)

Free Electives: 20 Semester Hours

Minimum Total: 120 Semester Hours

¹⁰Competency 10 course

#These online courses are part of the Missouri Association for Collaboration in Economics (MACE). Money & Banking and Labor Economics are taught by Northwest Missouri State University. Comparative Economic Systems and International Economics are taught by Southeast Missouri State University. Econometrics I and Sports Economics are taught by UCM. Students from UCM, SEMO, and NWMSU participate in all MACE classes.

*Students expecting to receive the B.S.B.A. degree must meet all preadmission requirements to be admitted to this program. See the Statement of Policy on Admission to a B.S.B.A. degree program. Pre-admission courses include: ACCT 1101, ACCT 2102, BLAW 2720, CIS 1600, ECON 1010, ECON 1011, FIN 2801, and MATH 1111.

Finance Minor (541) (24 hours)

Minor for a Bachelor's Degree

UCM does not confer teacher certification for this minor.

Minor Requirements: 24 Semester Hours

- ACCT 1101 - Foundations of Financial Reporting (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 and Markets (3)
- FIN 3891 - Security Analysis (3)

Elective from the following: 3 Semester Hours

- FIN 3893 - Credit and Financial Statement Analysis (3)
- FIN 4815 - Investment Portfolio Administration (3)
- FIN 4817 - Managing Financial Derivatives (3)
- FIN 4820 - International Finance (3)
- FIN 4821 - Professional Financial Analysis (3)
- FIN 4862 - Financial Management II (3)
- FIN 4880 - Bank Management (3)
- RMI 3803 - Principles of Insurance (3)

Finance, BSBA (46-267) (120 hours)

Major, Bachelor of Science in Business Administration Degree

The graduate with a B.S.B.A degree in Finance will use the knowledge and skills obtained in the program to:

- Demonstrate working knowledge of time value of money and risk-return tradeoffs.
- Define and differentiate between various financial instruments and markets.
- Make value-additive decisions using fundamental financial models.

For admission to the finance major, a student must have a cumulative GPA of 2.40 or above (on a 4.00 scale) on all completed undergraduate college credit and a 2.40 GPA (or above) on the 24 semester hours of B.S.B.A. pre-admission courses. To graduate with a B.S.B.A., major in finance, a student must have a cumulative GPA of 2.40 or higher.

Finance, BSBA (46-267) (4 Year Guide)

Major Requirements: 69 Semester Hours

- ACCT 1101 - Foundations of Financial Reporting (3) *
- ACCT 2102 - Principles of Managerial Accounting (3) *
- BLAW 2720 - Legal Environment of Business (3) *
- CIS 3630 - Management Information Systems (3)
- ECON 3020 - Money and Banking (3)
- ECON 3030 - Intermediate Microeconomics (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 and Markets (3) +
- FIN 3891 - Security Analysis (3) +
- FIN 3893 - Credit and Financial Statement Analysis (3) +
- MGT 3315 - Management of Organizations (3)
- MGT 3325 - Business Communication (3)
- MGT 3360 - Supply Chain and Operations Management (3)
- MGT 4357 - Organizational Policy and Strategy (3) ¹⁰
- MKT 3405 - Principles of Marketing (3)

Electives from the Following: 15 Semester Hours

- FIN 3835 - Internship in Finance (1-6) (3)
- FIN 4815 - Investment Portfolio Administration (3)
- FIN 4817 - Managing Financial Derivatives (3)
- FIN 4820 - International Finance (3)
- FIN 4821 - Professional Financial Analysis (3)
- FIN 4831 - Student Managed Investment Fund (3)
- FIN 4862 - Financial Management II (3)
- FIN 4880 - Bank Management (3)
- RMI 3803 - Principles of Insurance (3)
- RMI 4804 - Employee Benefits and Retirement Planning (3)
- Business Elective (3000-4000 level) (3)
- RMI 4802 - Life and Health Insurance (3)
- RMI 4803 - Property and Casualty Insurance (3)

General Education Requirements: 43 Semester Hours

All students must complete a minimum of 42 credit hours in general education. Some majors require additional hours due to required coursework. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major:

- CIS 1600 - Business Information Management GE (3) *
- ECON 1010 - Principles of Macroeconomics GE (3) *
- ECON 1011 - Principles of Microeconomics GE (3) *
- MATH 1111 - College Algebra GE (3) *

- COMM 1000 - Public Speaking GE (3)
OR
- COMM 1050 - Fundamentals of Oral Communication Competency GE (3)
OR
- MKT 1401 - Professional Speaking and Presentation GE (3)

Free Electives: 8 Semester Hours

Minimum Total: 120 Semester Hours

¹⁰Competency 10 course

+FIN 3850, FIN 3861, FIN 3881, FIN 3891 and FIN 3893 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 meet all preadmission requirements to be admitted to this program. See the Statement of Policy on Admission to a B.S.B.A. degree program. Pre-admission courses include: ACCT 1101, ACCT 2102, BLAW 2720, CIS 1600, ECON 1010, ECON 1011, FIN 2801, and MATH 1111.

International Business, BSBA (46-598) (120 hours)

Major, Bachelor of Science in Business Administration Degree

The graduate with a B.S.B.A degree in International Business will use the knowledge and skills obtained in the program to:

- Master all core business knowledge, skills and aptitudes required in the Bachelor of Science in Business Administration (BSBA) program.
- Recognize the impact the global environment has on specific business disciplines.
- Demonstrate competency in one non-native language.
- Apply language and business skills in a non-native setting.
- Understand differences in business and economic policies and systems in a foreign country.

International Business, BSBA (46-598) (4 Year Guide)

Major Requirements: 69 Semester Hours

Major Core Requirements: 51 Semester Hours

- ACCT 1101 - Foundations of Financial Reporting (3) *

- ACCT 2102 - Principles of Managerial Accounting (3) *
- BLAW 2720 - Legal Environment of Business (3) *
- CIS 3630 - Management Information Systems (3)
- ECON 3010 - Intermediate Macroeconomics (3)
- ECON 4010 - International Economics (3)
- FIN 2801 - Business Statistics I (3) *
- FIN 3801 - Business Statistics II (3)
- FIN 3850 - Principles of Finance (3)
- FIN 4820 - International Finance (3)
- MGT 3315 - Management of Organizations (3)
- MGT 3325 - Business Communication (3)
- MGT 3345 - International Management (3)
- MGT 3360 - Supply Chain and Operations Management (3)
- MGT 4357 - Organizational Policy and Strategy (3) ¹⁰
- MKT 3405 - Principles of Marketing (3)
- MKT 4460 - International Marketing (3)

Electives from the Following: 6 Semester Hours

- ANTH 3810 - Applied Anthropology (3)
- COMM 3340 - Intercultural Communication GE (3)
- GEOG 2212 - World Geography GE (3)
- GEOG 3200 - Geography of Europe (3)
- GEOG 3225 - Geography of Latin America (3)
- HIST 1402 - History of the Modern World GE (3)
- HIST 4416 - Europe in Crisis: 1900-Present (3)
- HIST 4452 - Modern Latin America (3)
- HIST 4463 - Modern China (3)
- HIST 4482 - The Modern Middle East (3)

Modern Language Requirement: 12 Semester Hours

All international business majors must demonstrate proficiency in a modern language other than their native language. This requirement can be satisfied by:

1. Completing 12 credit hours of one modern language.
2. Testing and receiving a ranking of "intermediate" in both the oral and written portions of the ACTFL test in a modern language. Three of these hours can be used to satisfy General Education requirements: Additional Courses for Knowledge Area I - 3 hours.

International Experience Requirement

Complete a minimum of 6 credit hours through one or more of the following options (need to be approved by the School of Business Administration: Division of Business Analytics chair):

1. Study Abroad Program
2. International Study Tour
3. International Internship

If the student has school chair approval prior to the International Experience, these courses may be used to fulfill Major, Modern Language, or Electives requirements. A minimum of 120 credit hours are required to receive the BSBA degree in International Business.

General Education Requirements: 34-40 Semester Hours

All students must complete a minimum of 43 credit hours in general education. Some majors require additional hours due to required coursework. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major:

- CIS 1600 - Business Information Management GE (3) *
 - COMM 3340 - Intercultural Communication GE (3) (if chosen)
 - GEOG 2212 - World Geography GE (3) (if chosen)
 - ECON 1010 - Principles of Macroeconomics GE (3) *
 - ECON 1011 - Principles of Microeconomics GE (3) *
 - HIST 1402 - History of the Modern World GE (3) (if chosen)
 - MATH 1111 - College Algebra GE (3) *
 - 3 credit hours of Modern Language courses will be counted as General Education requirements
-
- COMM 1000 - Public Speaking GE (3)
OR
 - COMM 1050 - Fundamentals of Oral Communication Competency GE (3)
OR
 - MKT 1401 - Professional Speaking and Presentation GE (3)

Free Electives: 11-17 Semester Hours

Minimal Total: 120 Semester Hours

¹⁰Competency 10 course

*Students expecting to receive the B.S.B.A. degree must meet all preadmission requirements to be admitted to this program. See the Statement of Policy on Admission to a B.S.B.A. degree program. Pre-admission courses include: ACCT 1101, ACCT 2102, BLAW 2720, CIS 1600, ECON 1010, ECON 1011, FIN 2801, and MATH 1111.

Risk Management and Insurance, BSBA (46-644) (120 hours)

Major, Bachelor of Science in Business Administration Degree

The graduate with a B.S.B.A. degree with a major in Risk Management and Insurance will use the knowledge and skills obtained in the program to:

- Master all core business knowledge, skills and aptitudes required in the program.
- Demonstrate working knowledge of risk management process.
- Demonstrate working knowledge of insurance industry.

- Understand different insurance contracts to manage risks.
- Risk Management and Insurance, BSBA (46-644) (4 Year Guide)

Major Requirements: 69 Sem. Hours

Major Core Courses: 54 Sem. Hours

- ACCT 1101 - Foundations of Financial Reporting (3) *
- ACCT 2102 - Principles of Managerial Accounting (3) *
- BLAW 2720 - Legal Environment of Business (3) *
- CIS 3630 - Management Information Systems (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 Communication (3)
- MGT 3360 - Supply Chain and Operations Management (3)
- MGT 4357 - Organizational Policy and Strategy (3) ¹⁰
- MKT 3405 - Principles of Marketing (3)
- RMI 3803 - Principles of Insurance (3)
- RMI 3835 - Internship in Insurance (1-6) (3)
- RMI 4802 - Life and Health Insurance (3)
- RMI 4803 - Property and Casualty Insurance (3)
- RMI 4804 - Employee Benefits and Retirement Planning (3)
- RMI 4850 - Corporate Risk Management (3)

Electives from the following: 15 Sem. Hours

- ECON 4085 - Predictive Analytics (3)
- FIN 3861 - Financial Management I (3)
- FIN 3881 - Financial Institutions and Markets (3)
- FIN 3891 - Security Analysis (3)
- FIN 3893 - Credit and Financial Statement Analysis (3)
- FIN 4817 - Managing Financial Derivatives (3)
- MKT 3430 - Professional Sales (3)
- Up to three hours may be upper level (3000-4000) business electives.

General Education Requirements: 43 Sem. Hours

All students must complete a minimum of 42 credit hours in general education. Some majors require additional hours due to required coursework. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major:

- CIS 1600 - Business Information Management GE (3) *
- MATH 1111 - College Algebra GE (3) *
- ECON 1010 - Principles of Macroeconomics GE (3) *
- ECON 1011 - Principles of Microeconomics GE (3) *

- COMM 1000 - Public Speaking GE (3)
OR
- COMM 1050 - Fundamentals of Oral Communication Competency GE (3)
OR
- MKT 1401 - Professional Speaking and Presentation GE (3)

Free electives: 8 Sem. Hours

BADM 1400 is strongly recommended as a free elective.

Minimum Total: 120 Sem. Hours

¹⁰Competency 10 course

*Students expecting to receive the B.S.B.A. degree must meet all preadmission requirements to be admitted to this program. See the Statement of Policy on Admission to a B.S.B.A. degree program. Pre-admission courses include: ACCT 1101, ACCT 2102, BLAW 2720, CIS 1600, ECON 1010, ECON 1011, FIN 2801, and MATH 1111.

School of Business Administration: Division of Business Strategy

School of Business Administration: Division of Business Strategy

Advertising Minor (672) (18 hours)

The advertising minor is an ideal option for students interested in learning more about specific advertising strategies and medium. The cross-disciplinary program incorporates classes from marketing, public relations, and digital technology. Students will learn about both the business-related and creative aspects in the advertising industry. UCM does not confer teacher certification for this minor.

Minor Requirements: 18 Semester Hours

- GRAP 2620 - Web Media Applications (3)
- MKT 3420 - Principles of Advertising (3)
- PR 2620 - Principles of Public Relations (3)

- MKT 3450 - Digital Marketing (3)
OR
- PR 4630 - Electronic & Social Media for Public Relations (3)

- MKT 4450 - Integrated Marketing Communication (3)
OR
- PR 3640 - Integrated Strategic Communication (3)

Elective from the Following: 3 Semester Hours

- GRAP 3010 - Social Media, Mobile Apps, and Content Management (3: 3 lecture, 0 lab)
- MKT 3435 - Internship in Marketing (1-6)
- MKT 4440 - Seminar in Brand Management (3)
- PR 3625 - Design and Layout (3)
- PR 4610 - Public Relations Management and Industry Practices (3)

NOTE: The following courses may require prerequisites, admission to the B.S.B.A. program, 2.5 G.P.A. and/or program coordinator approval: MKT 3435, MKT 4440, PR 4610.

Business Administration Minor (545) (18 hours)

Minor for a Bachelor's Degree

UCM does not confer teacher certification for this minor. This minor is not available to students pursuing a B.S.B.A. degree.

Minor Requirements: 18 Semester Hours

- ACCT 1101 - Foundations of Financial Reporting (3)
- BLAW 2720 - Legal Environment of Business (3)
- CIS 1600 - Business Information Management GE (3)
- ECON 1010 - Principles of Macroeconomics GE (3)
- MGT 3315 - Management of Organizations (3)
- MKT 3405 - Principles of Marketing (3)

Entrepreneurship and Social Enterprise Minor (332) (21-30 hours)

Minor for a Bachelor's Degree

UCM does not confer teacher certification for this minor.

Minor Requirements: 21-30 Semester Hours

ESE Core: 15 Semester Hours

- ACCT 1101 - Foundations of Financial Reporting (3)
- ESE 3710 - Entrepreneurial Business Planning (3)
- ESE 3720 - Social Enterprise for Entrepreneurs (3)
- ESE 4710 - Commercialization (3)
- ESE 3845 - Small Business Operations Analysis (3)

Entrepreneurial Elective: 3 Semester Hours

- ESE 4850 - Entrepreneurial or Social Venture Start-up (1-3) (3)
- HM 3825 - Events Management (3)
- HRM 3920 - Human Resource Management (3)
- MKT 3410 - Retail Management (3)
- MKT 3430 - Professional Sales (3)
- MKT 4475 - Services Marketing (3)

Other requirements for BSBA majors: 12 Semester Hours

All 4 must be taken during the same semester.

- MGT 3315 - Management of Organizations (3)
- MKT 3405 - Principles of Marketing (3)
- FIN 3850 - Principles of Finance (3)
- MGT 3385 - Integrative Business Experience Practicum (3)
OR
- MKT 3485 - Integrative Business Experience Practicum (3)
OR
- FIN 3885 - Integrative Business Experience Practicum (3)

Other requirements for non-BSBA majors: 3 Semester Hours

- MGT 3315 - Management of Organizations (3)

Entrepreneurship and Social Enterprise, BSBA (46-331) (120 hours)

Major, Bachelor of Science in Business Administration Degree

The graduate with a B.S.B.A degree in Entrepreneurship and Social Enterprise will use the knowledge and skills obtained in the program to:

- Design, launch and/or grow new businesses in a variety of sectors, return home to assist family businesses, or take on business development roles at growth-oriented companies.
- Interact with others to create business solutions and innovations with a social conscience, develop technology that is environmentally sustainable and tackle social problems with profitable solutions.
- Apply analysis and problem solving skills to provide meaningful and sustainable service to the University, community, citizens of Missouri and the world.
- Develop skills and attitudes required for life-long learning and serving others.

Entrepreneurship and Social Enterprise, BSBA (46-331) (4 Year Guide)

Major Requirements: 60 Semester Hours

- ACCT 1101 - Foundations of Financial Reporting (3) *
- ACCT 2102 - Principles of Managerial Accounting (3)
- BLAW 2720 - Legal Environment of Business (3) *
- CIS 3630 - Management Information Systems (3)
- ESE 3710 - Entrepreneurial Business Planning (3)

- ESE 3720 - Social Enterprise for Entrepreneurs (3)
- ESE 4710 - Commercialization (3)
- FIN 2801 - Business Statistics I (3) *
- FIN 3801 - Business Statistics II (3)
- FIN 3850 - Principles of Finance (3) **
- ESE 3845 - Small Business Operations Analysis (3)
- MKT 3405 - Principles of Marketing (3) **
- MKT 3450 - Digital Marketing (3)
- MGT 3315 - Management of Organizations (3) **
- MGT 3325 - Business Communication (3)
- MGT 3360 - Supply Chain and Operations Management (3)
- MGT 4357 - Organizational Policy and Strategy (3) ¹⁰

- FIN 3885 - Integrative Business Experience Practicum (3) **
OR
- MGT 3385 - Integrative Business Experience Practicum (3) **
OR
- MKT 3485 - Integrative Business Experience Practicum (3) **

Choose 6 Hours from the Following Courses: 6 Semester Hours

- BLAW 3721 - Law of Business Transactions (3)
- ESE 1200 - Foundations of Leadership Skills GE (3)
- ESE 1300 - Introduction to Entrepreneurship and Business (3)
- ESE 4850 - Entrepreneurial or Social Venture Start-up (1-3) (3)
- MGT 3320 - XBOB eXperience Based Organizational Behavior (3)
- MGT 4310 - Innovation, Quality and Sustainability (3)
- MGT 4320 - Leadership (3)
- MGT 4800 - Organizational Development and Personal Praxis (3)
- MKT 3410 - Retail Management (3)
- MKT 3430 - Professional Sales (3)
- MKT 3480 - Consumer Behavior (3)
- MKT 3475 - Marketing Research (3)
- Other pre-approved courses (1-6)

General Education Requirements: 40-43 Semester Hours

All students must complete a minimum of 42 credit hours in general education. Some majors require additional hours due to required coursework. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major:

- CIS 1600 - Business Information Management GE (3) *
- ECON 1010 - Principles of Macroeconomics GE (3) *
- ECON 1011 - Principles of Microeconomics GE (3) *
- ESE 1200 - Foundations of Leadership Skills GE (3) (if chosen)
- MATH 1111 - College Algebra GE (3) *

- COMM 1000 - Public Speaking GE (3)

- **OR**
- COMM 1050 - Fundamentals of Oral Communication Competency GE (3)
- **OR**
- MKT 1401 - Professional Speaking and Presentation GE (3)

Free Electives: 17-20 Semester Hours

Minimum Total: 120 Semester Hours

¹⁰Competency 10 course

*Students expecting to receive the B.S.B.A. degree must meet all pre-admission requirements to be admitted to this program. See the Statement of Policy on Admission to a B.S.B.A. degree program. Pre-admission courses include: ACCT 1101, ACCT 2102, BLAW 2720, CIS 1600, ECON 1010, ECON 1011, FIN 2801, and MATH 1111.

**Students must enroll in IBE Practicum (MGT 3385 or MKT 3485 or FIN 3885) concurrently with the IBE sections of MGT 3315, MKT 3405 and FIN 3850.

Events and Services Certificate (10-698) (12 hours)

Required Courses: 12 Semester Hours

- MKT 3430 - Professional Sales (3)
- MKT 4475 - Services Marketing (3)
- HM 3825 - Events Management (3)

- ESE 3845 - Small Business Operations Analysis (3)
- **OR**
- HM 4825 - Advanced Events Management (3)

Events Marketing and Management, BSBA (46-669) (120 hours)

Major, Bachelor of Science in Business Administration Degree

The graduate with a B.S.B.A. degree with a major in Events Marketing and Management will use the knowledge and skills obtained in the program to:

- Demonstrate an understanding of the importance of customer service in a client or service environment
- Develop strategies for implementation of events
- Plan and execute events while effectively managing budgets
- Effectively assess events after their completion and create improvement plans

BSBA in Events Marketing and Management majors are not eligible for the Events and Services Certificate from UCM.

Events Marketing and Management, BSBA (46-669) (4 Year Guide)

Major Requirements: 66 Semester Hours

- ACCT 1101 - Foundations of Financial Reporting (3) *
- ACCT 2102 - Principles of Managerial Accounting (3) *
- BLAW 2720 - Legal Environment of Business (3) *
- CIS 3630 - Management Information Systems (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 Communication (3)
- MGT 3360 - Supply Chain and Operations Management (3)
- MGT 4357 - Organizational Policy and Strategy (3) ¹⁰
- MKT 3405 - Principles of Marketing (3) **

Additional Required Courses in the Major: 18 Semester Hours

- HM 3825 - Events Management (3)
- HM 4825 - Advanced Events Management (3)
- MKT 3430 - Professional Sales (3)
- MKT 4475 - Services Marketing (3)

- HM 3880 - Internship (1-3) (3) ***
OR
- MGT 3335 - Internship in Management (1-9) (3) ***
OR
- MKT 3435 - Internship in Marketing (1-6) (3) ***

- FIN 3885 - Integrative Business Experience Practicum (3) **
OR
- MGT 3385 - Integrative Business Experience Practicum (3) **
OR
- MKT 3485 - Integrative Business Experience Practicum (3) **

Choose from the following: 12 Semester Hours

- ESE 3845 - Small Business Operations Analysis (3)
- MGT 3320 - XBOB eXperience Based Organizational Behavior (3)
- MKT 3450 - Digital Marketing (3)
- PR 2620 - Principles of Public Relations (3)
- Other approved course (**maximum 3 credits**) (3)

- HM 3870 - Digital Hospitality Management (3)
OR
- MGT 4325 - Management Communication (3)

- MKT 4450 - Integrated Marketing Communication (3) ##
OR
- PR 3640 - Integrated Strategic Communication (3) ##

General Education Requirements: 43 Semester Hours

All students must complete a minimum of 42 credits hours in general education. See The General Education Program Requirements for full listing of requirements. Some General Education courses included in the major are used to satisfy General Education requirements, but additional courses within the same General Education categories are not. The following General Education classes are required in this program:

- CIS 1600 - Business Information Management GE (3) *
- ECON 1010 - Principles of Macroeconomics GE (3) *
- MATH 1111 - College Algebra GE (3) *

- COMM 1000 - Public Speaking GE (3)
OR
- COMM 1050 - Fundamentals of Oral Communication Competency GE (3)
OR
- MKT 1401 - Professional Speaking and Presentation GE (3)

Free Electives: 11 Semester Hours

Minimum Total: 120 Semester Hours

¹⁰ Competency 10 course

*Students expecting to receive the B.S.B.A. degree must meet all preadmission requirements to be admitted to this program. See the Statement of Policy on Admission to a B.S.B.A. degree program. Pre-admission courses include: ACCT 1101, ACCT 2102, BLAW 2720, CIS 1600, ECON 1010, ECON 1011, FIN 2801, and MATH 1111.

**Students must enroll in IBE Practicum (MGT 3385 or MKT 3485) concurrently with the IBE sections of MGT 3315, MKT 3405 and FIN 3850.

This course has a prerequisite not listed in the program which is SERVSAFE Certification; click on the course number for additional requirements.

BSBA in Events Marketing and Management may not choose both MKT 4450 and PR 3640.

***The internship is a requirement of this degree program. Students in the major must have an overall cumulative GPA of 2.50 or above (4.00 scale) before they can attempt the internship requirement. Students must also complete the following BEFORE they can enroll and participate in the 3 credit Internship (HM 3880 or MGT 3335 or MKT 3435).

- 21 UCM credit hours completed (minimum).
- 60 credit hours of university credit (minimum) - a requirement of UCM HCBPS Internship Office.
- 2.50 (or above) overall GPA - a requirement of UCM HCBPS Internship Office .
- Complete pre-internship paperwork and processes with HCBPS Internship Office

Hospitality Management Minor (629) (24 hours)

Minor for a Bachelor's Degree

UCM does not confer teacher certification for this minor.

Minor Requirements: 24 Semester Hours

- ACCT 1101 - Foundations of Financial Reporting (3) *
- ESE 3845 - Small Business Operations Analysis (3)
- HRM 3920 - Human Resource Management (3) *
- MGT 3320 - XBOB eXperience Based Organizational Behavior (3) *
- MGT 3325 - Business Communication (3) * +

Electives from the Following: 9 Semester Hours

- HM 3800 - Lodging Management (3)
- HM 3825 - Events Management (3)
- HM 3844 - Restaurant Operations (3)
- HM 3810 - Internship in Hotel and Restaurant Management (1-3) (3)
OR
- **Other (see note below) (3)

Note:

This minor is not available to BS in Hotel and Restaurant Administration majors.

* Students must have earned 30 credits hours before attempting any 2000-level course and 60 credit hours before attempting any 3000-level course in the Harmon College of Business and Professional Studies.

** 3 credit Internship requirement:

Should you select internship, 3 credits maximum from one of the following:

Duties must include hospitality or event planning/management content.

HM 3810 - Internship in Hotel and Restaurant Management (1-3) (3) (Requires approval by Hotel & Restaurant Administration minor coordinator)

MGT 3335 - Internship in Management (1-9) (1-9)

MKT 3435 - Internship in Marketing (1-6) (1-6)

ESE 3335 - Entrepreneurial Internship (1-3) (1-3)

Other UCM internship credit, if approved by the Hotel & Restaurant Administration minor coordinator.

+ Note: MGT 3325 has prerequisites as follows which may be met through appropriate choices in the UCM General Education Program: ENGL 1030 or ENGL 1080 or CTE 3060; and COMM 1000 or COMM 1050.

Leadership Studies Minor (597) (16 hours)

Minor for a Bachelor's Degree

UCM does not confer teacher certification for this minor.

Minor Requirements: 16 Semester Hours

- ESE 1200 - Foundations of Leadership Skills GE (3)
- ESE 4200 - Entrepreneurial Approach to Leadership Skills (1) *

Note:

*ESE 4200 requires students to be inducted members of the National Society for Leadership and Success (NSLS). Further, a prerequisite for this course is completion of levels 1 and 2 of the NSLS certification process. Leadership studies minors will then complete level 3 NSLS certification as a requirement for ESE 4200.

- 12 hours of competencies from 6 different competency areas. Competency areas 1 and 2 are required. A class may count for more than one competency area. (12)

Competency 1: Leadership & Advocacy Roles

- CFD 4850 - Family Policy and Advocacy (3)
- COMM 2380 - Introduction to Organizational Communication (3)
- COMM 2700 - Dale Carnegie: Effective Communication and Human Relations (3)
- COMM 3350 - Professional Communication (3)
- ESE 3725 - Social Enterprise Lab (1)
- HRM 3920 - Human Resource Management (3)
- MGT 3300 - Dale Carnegie Leadership Training for Managers (2)
- MGT 3315 - Management of Organizations (3)
- MGT 3320 - XBOB eXperience Based Organizational Behavior (3)
- MGT 4800 - Organizational Development and Personal Praxis (3)
- PR 4610 - Public Relations Management and Industry Practices (3)
- PR 4625 - Innovative Public Relations (1-9)
- SM 3500 - Sport Leadership (3)
- SOC 1830 - Social Problems GE (3)
- SOC 2845 - Social Inequality (3)
- SOC 2850 - Institutions and Social Action (3)
- SOC 3815 - Cities & Urban Life (3)
- SOC 3830 - Protests, Riots & Movements (3)
- WGS 2050 - Sexuality, Identity & Social Action GE (3)

Competency 2: Management of Resources

- ACCT 1101 - Foundations of Financial Reporting (3)
- ACCT 2100 - Survey of Accounting (3)
- BTE 2560 - Organizational Administration and Event Planning (3)
- BTE 4560 - Emerging Technologies for Business (2)
- CIS 3685 - Integrative Business Experience Practicum (3)
- ESE 3710 - Entrepreneurial Business Planning (3)
- ESE 3715 - Entrepreneurial Business Planning Lab (1)
- ESE 3720 - Social Enterprise for Entrepreneurs (3)
- ESE 3725 - Social Enterprise Lab (1)
- ESE 4710 - Commercialization (3)
- ESE 4715 - ESE Commercialization Lab (1)
- HM 4820 - Sustainability and Operations Management (3)
- MGT 3315 - Management of Organizations (3)
- MGT 3385 - Integrative Business Experience Practicum (3)
- MKT 3485 - Integrative Business Experience Practicum (3)
- PR 4610 - Public Relations Management and Industry Practices (3)

- PR 4625 - Innovative Public Relations (1-9)
- SM 3600 - Sport Finance (3)
- SM 3700 - Sport Facility Management (3)
- SOC 4850 - Money, Work & Social Life (3)

Competency 3: Promotion, Marketing & Communication

- ACCT 2100 - Survey of Accounting (3)
- ACCT 1101 - Foundations of Financial Reporting (3)
- BTE 2560 - Organizational Administration and Event Planning (3)
- BTE 4560 - Emerging Technologies for Business (2)
- CIS 3685 - Integrative Business Experience Practicum (3)
- COMM 2330 - Communication in Small Groups/Teams (3)
- COMM 2380 - Introduction to Organizational Communication (3)
- COMM 2700 - Dale Carnegie: Effective Communication and Human Relations (3)
- COMM 3350 - Professional Communication (3)
- ESE 3710 - Entrepreneurial Business Planning (3)
- ESE 3715 - Entrepreneurial Business Planning Lab (1)
- ESE 3720 - Social Enterprise for Entrepreneurs (3)
- ESE 3725 - Social Enterprise Lab (1)
- ESE 4710 - Commercialization (3)
- ESE 4715 - ESE Commercialization Lab (1)
- HM 4820 - Sustainability and Operations Management (3)
- HRM 3920 - Human Resource Management (3)
- MGT 3300 - Dale Carnegie Leadership Training for Managers (2)
- MGT 3315 - Management of Organizations (3)
- MGT 3320 - XBOB eXperience Based Organizational Behavior (3)
- MGT 3385 - Integrative Business Experience Practicum (3)
- MKT 3485 - Integrative Business Experience Practicum (3)
- PR 2620 - Principles of Public Relations (3)
- PR 4610 - Public Relations Management and Industry Practices (3)
- PR 4625 - Innovative Public Relations (1-9)
- SM 3210 - Sport and Media (3)
- SM 3720 - Managing Sport Events (3)
- SM 4200 - Applied Sport Marketing (3)
- SM 4220 - Sport Sponsorship and Retention (3)
- SM 4400 - Sport Communication (3)
- SOC 1830 - Social Problems GE (3)
- SOC 2810 - Culture and Society (3)
- SOC 2845 - Social Inequality (3)
- SOC 2850 - Institutions and Social Action (3)
- SOC 3820 - Popular Culture (3)
- WGS 2000 - Intersections: Gender, Race, Class GE (3)

Competency 4: Diversity & Cultural Differences

- BIOL 1005 - Introduction to Environmental Science GE (3)

- BIOL 3721 - Wildlife Management (3)
- CFD 1450 - Valuing Differences: Discovering Common Ground (1)
- CFD 4520 - Multicultural Study and Approaches with Families (3)
- GEOG 4291 - Conservation of Natural Resources (3)
- HLTH 3400 - Health Program Planning and Evaluation (3)
- IS 1000 - Introduction to International Studies GE (3)
- MKT 3405 - Principles of Marketing (3)
- KIN 4341 - Physical Activity and Special Populations (3)
- PSY 2220 - Child and Adolescent Psychological Development (3)
- PSY 3220 - Life-Span Development (3)
- PSY 4230 - Psychology of Adolescence GE (3)
- PR 4625 - Innovative Public Relations (1-9)
- SM 1100 - Introduction to Sport Management (3)
- SOC 2825 - Families, Homes & Communities (3)
- SOC 3825 - Race and Ethnic Relations (3)
- SOC 3854 - Generations: Aging in Society (3)
- SOC 3895 - Outsiders and Outcasts (3)
- SOC 4855 - Family Diversity (3)
- SOC 4870 - Gender, Sexuality, & Inequality (3)
- SOC 4894 - Sociology of Aging (3)
- SOWK 2600 - Introduction to Social Welfare and Social Work GE (3)
- WGS 2000 - Intersections: Gender, Race, Class GE (3)

Competency 5: Decisions in the Legal & Ethical Realms

- ACCT 2100 - Survey of Accounting (3)
- CIS 3685 - Integrative Business Experience Practicum (3)
- COMM 2380 - Introduction to Organizational Communication (3)
- ESE 3710 - Entrepreneurial Business Planning (3)
- ESE 4710 - Commercialization (3)
- HRM 3920 - Human Resource Management (3)
- MGT 3315 - Management of Organizations (3)
- MGT 3320 - XBOB eXperience Based Organizational Behavior (3)
- MGT 3385 - Integrative Business Experience Practicum (3)
- MKT 3485 - Integrative Business Experience Practicum (3)
- PR 2620 - Principles of Public Relations (3)
- PR 4625 - Innovative Public Relations (1-9)
- PR 4650 - Public Relations & Promotional Law (3)
- PSY 4230 - Psychology of Adolescence GE (3)
- SM 3500 - Sport Leadership (3)
- SM 3700 - Sport Facility Management (3)
- SOC 4055 - Social Policy & Justice (3)
- SOC 2845 - Social Inequality (3)

Competency 6: Venture Start-up/Development

- ACCT 2100 - Survey of Accounting (3)

- BTE 4560 - Emerging Technologies for Business (2)
- COMM 2330 - Communication in Small Groups/Teams (3)
- COMM 2380 - Introduction to Organizational Communication (3)
- COMM 3320 - Communication of Social Movements (3)
- COMM 3730 - Conflict Management (3)
- COMM 4783 - Communication Training (3)
- ESE 3710 - Entrepreneurial Business Planning (3)
- ESE 3715 - Entrepreneurial Business Planning Lab (1)
- ESE 3725 - Social Enterprise Lab (1)
- ESE 4715 - ESE Commercialization Lab (1)
- HM 4820 - Sustainability and Operations Management (3)
- MGT 3315 - Management of Organizations (3)
- MKT 3405 - Principles of Marketing (3)
- PR 2620 - Principles of Public Relations (3)
- PR 4610 - Public Relations Management and Industry Practices (3)
- PR 4625 - Innovative Public Relations (1-9)
- SOC 2845 - Social Inequality (3)
- SOC 2850 - Institutions and Social Action (3)
- SOC 3815 - Cities & Urban Life (3)
- WGS 2000 - Intersections: Gender, Race, Class GE (3)

Competency 7: Career Development

- CIS 3685 - Integrative Business Experience Practicum (3)
- COMM 2380 - Introduction to Organizational Communication (3)
- COMM 4783 - Communication Training (3)
- ESE 3715 - Entrepreneurial Business Planning Lab (1)
- ESE 3720 - Social Enterprise for Entrepreneurs (3)
- ESE 3725 - Social Enterprise Lab (1)
- ESE 4710 - Commercialization (3)
- HIST 4340 - Public History (3)
- IS 1000 - Introduction to International Studies GE (3)
- MGT 3315 - Management of Organizations (3)
- MGT 3320 - XBOB eXperience Based Organizational Behavior (3)
- MGT 3385 - Integrative Business Experience Practicum (3)
- MKT 3485 - Integrative Business Experience Practicum (3)
- PR 2620 - Principles of Public Relations (3)
- PR 4610 - Public Relations Management and Industry Practices (3)
- PR 4625 - Innovative Public Relations (1-9)

Competency 8: Managing People

- ACCT 2100 - Survey of Accounting (3)
- BIOL 1005 - Introduction to Environmental Science GE (3)
- BTE 4560 - Emerging Technologies for Business (2)
- CIS 3685 - Integrative Business Experience Practicum (3)
- COMM 2330 - Communication in Small Groups/Teams (3)

- COMM 2380 - Introduction to Organizational Communication (3)
- COMM 4783 - Communication Training (3)
- ESE 3715 - Entrepreneurial Business Planning Lab (1)
- ESE 3725 - Social Enterprise Lab (1)
- HM 4820 - Sustainability and Operations Management (3)
- HRM 3920 - Human Resource Management (3)
- MGT 3300 - Dale Carnegie Leadership Training for Managers (2)
- MGT 3315 - Management of Organizations (3)
- MGT 3325 - Business Communication (3)
- MGT 3385 - Integrative Business Experience Practicum (3)
- MGT 4800 - Organizational Development and Personal Praxis (3)
- MKT 3405 - Principles of Marketing (3)
- MKT 3485 - Integrative Business Experience Practicum (3)
- PSY 2220 - Child and Adolescent Psychological Development (3)
- PSY 3220 - Life-Span Development (3)
- PSY 4230 - Psychology of Adolescence GE (3)
- SM 3500 - Sport Leadership (3)
- SM 3700 - Sport Facility Management (3)
- SOC 2850 - Institutions and Social Action (3)
- WGS 2000 - Intersections: Gender, Race, Class GE (3)

Legal Studies Minor (555) (21 hours)

Minor for a Bachelor's Degree

Minor Requirements: 21 Semester Hours

- CJ 2300 - Criminal Law and Procedure (3) *
- BLAW 2720 - Legal Environment of Business (3)
- POLS 2580 - Public Law and the Judicial Process (3)

Elective from the Following: 12 Semester Hours

No more than 6 hours from any one discipline and at least 6 hours must be upper-level (3000/4000)

- ACCT 3130 - Introduction to Income Tax (3) *
- ACCT 4130 - Advanced Income Tax (3) *
- AVIA 4090 - Aviation Law (3)
- BLAW 2750 - Legal and Ethical Decision Making in the Workplace (3)
- BLAW 3721 - Law of Business Transactions (3) *
- BLAW 4740 - Employment Law (3) *
- COMM 2340 - Argumentation and Debate (3)
- COMM 4250 - The Law and Digital Media (3) *
- CJ 3310 - Law of Corrections and Prisoners' Rights (3) *
- POLS 3598 - International Human Rights (3)
- CJ 4302 - Evidence and Courtroom Procedure (3)
- CJ 4321 - Civil Remedies in Criminal Justice (3) *

- CJ 4330 - Criminal Justice and the Mental Health Systems (3) *
- CJ 4390 - The Death Penalty (3)
- CJ 4701 - Juvenile Law & Policy (3)
- EDSP 4700 - IEP and the Law (3) *
- RMI 4804 - Employee Benefits and Retirement Planning (3)
- HM 4840 - Legal Aspects of Hotel and Restaurant Management (3)
- INDM 4015 - Legal Aspects of Industry (3)
- PE 4740 - Legal Liability in Fitness/Wellness, Physical Education, Recreation and Sport Settings (2)
- PHIL 1400 - Deductive Logic (3)
- PHIL 1410 - Critical Thinking GE (3)
- PHIL 2300 - Ethics GE (3)
- POLS 3581 - Trial Advocacy GE (3)
- POLS 4530 - International Law (3)
- POLS 4580 - American Constitutional Law (3)
- POLS 4581 - Civil Rights and Liberties (3)
- POLS 4583 - First Amendment (3)
- SAFE 4425 - Safety and Health Legislation and Standards (3) *
- UNIV 1240 - LSAT Test Preparation (1)

Note:

* This course has a prerequisite not listed in the program; click on the course number for additional requirements.

Management Minor (510) (18 hours)

Minor for a Bachelor's Degree

UCM does not confer teacher certification for this minor.

Minor Requirements: 18 Semester Hours

- MGT 3315 - Management of Organizations (3)
- MGT 3320 - XBOB eXperience Based Organizational Behavior (3)
- MGT 3325 - Business Communication (3)
- HRM 3920 - Human Resource Management (3)

Electives from the Following: 6 Semester Hours

- MGT 3335 - Internship in Management (1-9) (3-6)
- MGT 3360 - Supply Chain and Operations Management (3)
- MGT 4310 - Innovation, Quality and Sustainability (3)
- MGT 4320 - Leadership (3)
- MGT 4325 - Management Communication (3)
- MGT 4800 - Organizational Development and Personal Praxis (3)

Management, BSBA (46-268) (120 hours)

Major, Bachelor of Science in Business Administration Degree

In the B.S.B.A. in Management major, our students will be given the opportunity to:

- Become more effective decision makers.
- Organize activities to implement decisions.
- Deliver effective oral presentations and written communications.
- Lead others effectively.
- Develop skills and attitudes required for life-long learning and serving others.

Management, BSBA (46-268) (4 Year Guide)

Major Requirements: 66 Semester Hours

- ACCT 1101 - Foundations of Financial Reporting (3) *
- ACCT 2102 - Principles of Managerial Accounting (3) *
- BLAW 2720 - Legal Environment of Business (3) *
- CIS 3630 - Management Information Systems (3)
- FIN 2801 - Business Statistics I (3) *
- FIN 3801 - Business Statistics II (3)
- FIN 3850 - Principles of Finance (3) **
- HRM 3920 - Human Resource Management (3)
- MGT 3315 - Management of Organizations (3) **
- MGT 3320 - XBOB eXperience Based Organizational Behavior (3)
- MGT 3325 - Business Communication (3)
- MGT 3345 - International Management (3)
- MGT 3360 - Supply Chain and Operations Management (3)
- MGT 4310 - Innovation, Quality and Sustainability (3)
- MGT 4320 - Leadership (3)
- MGT 4325 - Management Communication (3)
- MGT 4357 - Organizational Policy and Strategy (3) ¹⁰
- MGT 4800 - Organizational Development and Personal Praxis (3)
- MKT 3405 - Principles of Marketing (3) **

- FIN 3885 - Integrative Business Experience Practicum (3) **
OR
- MGT 3385 - Integrative Business Experience Practicum (3) **
OR
- MKT 3485 - Integrative Business Experience Practicum (3) **

Exhibiting Leadership: 3 Semester Hours

Choose From:

- ESE 1200 - Foundations of Leadership Skills GE (3) (Management majors should not take if more than 60 hours earned)
- ESE 3720 - Social Enterprise for Entrepreneurs (3)

- ISP 4000 - Study Abroad (1-18)
- International Study Tour (seek Management Program Coordinator approval) (3)
- MGT 3335 - Internship in Management (1-9)

Interdisciplinary Global Perspective: 3 Semester Hours

Choose From:

- ANTH 1820 - Cultural Anthropology GE (3)
- ANTH 3850 - Globalization and Culture (3)
- ANTH 4870 - Ethnographic Methods (3)
- GEOG 4270 - World Political Geography (3)
- HIST 1402 - History of the Modern World GE (3)
- POLS 3535 - Model United Nations GE (3)
- POLS 4520 - Principles of International Development (3)
- REL 2310 - Religious Issues Today GE (3)
- SOC 3885 - Globalization and the Future (3)
- ISP 4000 - Study Abroad (1-18) (3) (seek Management Program Coordinator approval)
- International Study Tour (seek Management Program Coordinator approval) (3)

General Education Requirements: 43 Semester Hours

All students must complete a minimum of 42 credit hours in general education. Some majors require additional hours due to required coursework. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major:

- CIS 1600 - Business Information Management GE (3) *
- ECON 1010 - Principles of Macroeconomics GE (3) *
- ECON 1011 - Principles of Microeconomics GE (3) *
- ESE 1200 - Foundations of Leadership Skills GE (3) (if chosen)
- MATH 1111 - College Algebra GE (3) *

- COMM 1000 - Public Speaking GE (3)
- OR**
- COMM 1050 - Fundamentals of Oral Communication Competency GE (3)
- OR**
- MKT 1401 - Professional Speaking and Presentation GE (3)

Free Electives: 11 Semester Hours

Minimum Total: 120 Semester Hours

¹⁰ Competency 10 course

* Students expecting to receive the B.S.B.A. degree must meet all pre-admission requirements to be admitted to this program. See the Statement of Policy on Admission to a B.S.B.A. degree program. Pre-admission courses include: ACCT 1101, ACCT 2102, BLAW 2720, CIS 1600, ECON 1010, ECON 1011, FIN 2801, and MATH 1111.

** Students must enroll in IBE Practicum (MGT 3385 or MKT 3485 or FIN 3885) concurrently with the IBE sections of MGT 3315, MKT 3405 and FIN 3850.

Marketing Minor (512) (18 hours)

Minor for a Bachelor's Degree

UCM does not confer teacher certification for this minor.

Minor Requirements: 18 Semester Hours

- MKT 3405 - Principles of Marketing (3)
- MKT 3430 - Professional Sales (3)
- MKT 3480 - Consumer Behavior (3)

Marketing Elective from the Following: 9 Semester Hours

- BLAW 2720 - Legal Environment of Business (3)
- ECON 1010 - Principles of Macroeconomics GE (3)
- MKT 3410 - Retail Management (3)
- MKT 3420 - Principles of Advertising (3)
- MKT 3445 - Marketing Distribution (3)
- MKT 3450 - Digital Marketing (3)
- MKT 3475 - Marketing Research (3)
- MKT 4475 - Services Marketing (3)
- MKT 4410 - Advanced Professional Sales (3)
- MKT 4420 - Sales Management (3)
- MKT 4440 - Seminar in Brand Management (3)
- MKT 4454 - Sports Marketing (3)

Marketing, BSBA (46-269) (120 hours)

Major, Bachelor of Science in Business Administration Degree

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.

Marketing, BSBA (46-269) (4 Year Guide)

Major Requirements: 66 Semester Hours

- ACCT 1101 - Foundations of Financial Reporting (3) *
- ACCT 2102 - Principles of Managerial Accounting (3) *
- BLAW 2720 - Legal Environment of Business (3) *
- CIS 3630 - Management Information Systems (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 Communication (3)
- MGT 3360 - Supply Chain and Operations Management (3)
- MGT 4357 - Organizational Policy and Strategy (3) ¹⁰
- MKT 3405 - Principles of Marketing (3)
- MKT 3430 - Professional Sales (3)
- MKT 3480 - Consumer Behavior (3)
- MKT 4460 - International Marketing (3)
- MKT 3475 - Marketing Research (3)
- MKT 4490 - Marketing Management (3)

Marketing Electives from the Following: 15 Semester Hours

- MKT 1400 - Orientation to Marketing (1)
- MKT 3410 - Retail Management (3)
- MKT 3420 - Principles of Advertising (3)
- MKT 3435 - Internship in Marketing (1-6)
- MKT 3445 - Marketing Distribution (3)
- MKT 3450 - Digital Marketing (3)
- MKT 4410 - Advanced Professional Sales (3)
- MKT 4420 - Sales Management (3)
- MKT 4440 - Seminar in Brand Management (3)
- MKT 4450 - Integrated Marketing Communication (3)
- MKT 4454 - Sports Marketing (3)
- MKT 4475 - Services Marketing (3)
- MKT 4480 - Special Projects in Marketing (1-3)

General Education Requirements: 43 Semester Hours

All students must complete a minimum of 42 credit hours in general education. Some majors require additional hours due to required coursework. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major:

- CIS 1600 - Business Information Management GE (3) *
- ECON 1010 - Principles of Macroeconomics GE (3) *
- ECON 1011 - Principles of Microeconomics GE (3) *
- MATH 1111 - College Algebra GE (3) *

- COMM 1000 - Public Speaking GE (3)
OR
- COMM 1050 - Fundamentals of Oral Communication Competency GE (3)
OR
- MKT 1401 - Professional Speaking and Presentation GE (3)

Free Electives: 11 Semester Hours

Minimum Total: 120 Semester Hours

¹⁰Competency 10 course

*Students expecting to receive the B.S.B.A. degree must meet all preadmission requirements to be admitted to this program. See the Statement of Policy on Admission to a B.S.B.A. degree program. Pre-admission courses include: ACCT 1101, ACCT 2102, BLAW 2720, CIS 1600, ECON 1010, ECON 1011, FIN 2801, and MATH 1111.

Professional Selling Certificate (10-638)

Required Courses: 12 Semester Hours

- MKT 3405 - Principles of Marketing (3)
- MKT 3430 - Professional Sales (3)
- MKT 4410 - Advanced Professional Sales (3) *
- MKT 4420 - Sales Management (3) *

Note:

* One of these two courses may be substituted with MKT 3435 - Internship in Marketing (1-6) (with a sales focus) upon approval of the school chair.

Public Relations Minor (253) (18 hours)

Minor for a Bachelor's Degree

UCM does not confer teacher certification for this minor.

All public relations minors must obtain a 2.25 GPA (with no grade lower than a C) in PR 1600, PR 2620 and PR 3605.

The graduate with a Bachelor of Science degree with a Public Relations minor will at some level use the knowledge and skills obtained in the program to:

- Demonstrate public relations driven knowledge and understanding.
- Demonstrate written, oral and visual communication knowledge and application proficiency for public relations purposes.
- Demonstrate critical thinking, problem-solving, and decision making proficiency relevant to public relations purposes.

- Demonstrate research knowledge and application proficiency for public relations purposes.
- Demonstrate strategic planning knowledge and application proficiency for public relations purposes.
- Demonstrate preparedness for professional life and/or further academic study.

Minor Requirements: 18 Semester Hours

- PR 1600 - Orientation to PR (3)
- PR 2620 - Principles of Public Relations (3)
- PR 3605 - Survey of Public Relations Research and Theory (3)
- PR 3640 - Integrated Strategic Communication (3)
- PR 4650 - Public Relations & Promotional Law (3)
- Elective PR course from approved list (see major electives) (3)

Public Relations, BS (43-351) (120 hours)

Major, Bachelor of Science Degree

A Public Relations Bachelor of Science degree requires a minimum of 120 semester hours and a four semester minimum sequence of courses. A minor is not required but is encouraged. An Industry Practices concentration is also elective.

Mission Statement

To provide students with a world-class education, through a small-college learning environment, in Public Relations and strategic communication.

Program Outcomes

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 understanding.
- Demonstrate written, oral and visual communication knowledge and application proficiency for Public Relations purposes.
- Demonstrate critical thinking, problem-solving, and decision making proficiency relevant to Public Relations purposes.
- Demonstrate research knowledge and application proficiency for Public Relations purposes.
- Demonstrate strategic planning knowledge and application proficiency for Public Relations purposes.
- Demonstrate preparedness for professional life and/or further academic study.

Admission Policies

At the time of first admission to UCM, a student should indicate/declare the intent to become a Public Relations major. Each declared major is encouraged to visit a program advisor in the Harmon College of Business and Professional Studies (Ward Edwards 1600, phone 660-543-8577). In addition, the student can also visit with Public Relations faculty in Dockery 200, PR Suite, 660-543-4246.

The following prerequisites are required for admission to the Public Relations program: (1) completion of general education courses ENGL 1020 and (ENGL 1030 or ENGL 1080 or CTE 3060), and MKT 1401 or COMM 1000 or COMM 1050 with a grade no lower than a C; and (2) completion of major-specific courses PR 2620, PR 3610 and PR 3620, with no grade lower than a C and a 2.33 grade-point average or better.

The Public Relations faculty encourage all students to meet with an advisor each semester before enrolling.

Graduation Policies

1. Course substitutions for program requirements may be made only by the Public Relations program advisor and school chair.
2. A student must earn a grade no lower than a C in the following courses in order to graduate with a Public Relations degree: MKT 1401; COMM 1000; COMM 1050; ENGL 1020 and (ENGL 1030 or ENGL 1080 or CTE 3060); PR 1600, PR 2620, PR 3605, PR 3610 and PR 3620.
3. Only six semester hours of communication coursework with a D can be counted toward the Public Relations major. Any D credits to be counted must be approved by the public relations program faculty advisor.
4. To graduate with a Public Relations degree, a student must obtain at least a 2.25 grade-point average for all credit hours completed at UCM or elsewhere and attain at least a 2.50 grade-point average for all course work in the major.
5. PR 4600 may be repeated for up to nine hours. Three hours of PR 4605 are required; three additional hours of PR 4605 are elective. PR 4625 may be repeated up to nine hours with proper approval. PR 4627 may be repeated up to nine hours with proper approval.
6. Public Relations majors are not required to complete a concentration or minor. They are, however, encouraged to complete the Public Relations-specific Industry Practices concentration or any minor of their choosing. The Industry Practices concentration and minors can be declared when visiting the HCBPS Academic Advising Office.

Public Relations, BS (43-351) (4 Year Guide)

Major Requirements: 54 Semester Hours

- PR 1600 - Orientation to PR (3)
- PR 2620 - Principles of Public Relations (3)
- PR 3605 - Survey of Public Relations Research and Theory (3)
- PR 3610 - Writing and Editing (3)
- PR 3620 - Strategic Planning and Research for PR (3)
- PR 3625 - Design and Layout (3)
- PR 3640 - Integrated Strategic Communication (3)
- PR 4605 - Public Relations Internship (1-3) (3)
- PR 4610 - Public Relations Management and Industry Practices (3)
- PR 4630 - Electronic & Social Media for Public Relations (3)
- PR 4650 - Public Relations & Promotional Law (3)
- PR 4680 - Advanced PR Writing (3)
- PR 4685 - Strategic Public Relations Case Analysis (3)
- PR 4690 - Public Relations Campaigns (3) ¹⁰

PR electives from the Following: 12 Semester Hours

- PR 4655 - Global Sports Public Relations (3)

- PR 4600 - Special Topics in Public Relations (3) (3-9)
- PR 4605 - Public Relations Internship (1-3)
- PR 4625 - Innovative Public Relations (1-9)
- PR 4627 - Special Projects in Public Relations (1-3) (1-9)
- PR 4640 - Advanced Public Relations Design (3)
- PR 4670 - Strategic Crisis Communication (3)
- PR 4675 - Media Training (3)

General Education Requirements: 42 Semester Hours

All students must complete a minimum of 42 credit hours in general education. Some majors require additional hours due to required coursework. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major:

- COMM 1000 - Public Speaking GE (3)
OR
- COMM 1050 - Fundamentals of Oral Communication Competency GE (3)
OR
- MKT 1401 - Professional Speaking and Presentation GE (3)

Free Electives: 24 Semester Hours

Minimum Total: 120 Semester Hours

¹⁰ Competency 10 course

Sport Management, BS (43-612) (120 hours)

Major, Bachelor of Science Degree

The graduate with a Bachelor of Science degree in Sport Management will:

- Illustrate the basic concepts of the major sub-disciplines of sport management from social, psychological, and international perspectives.
- Explain the dynamics of sport, recreational sport, non-sport recreation, and leisure in society.
- Develop and evaluate a management plan in sport event and facility management.
- Evaluate effective management and leadership principles, ethics, and their respective applications to various sport organizations.
- Create strategic sport marketing and communication plans and applications.
- Analyze market structure in sport to include distinctions between market types.
- Explain relevant legal terminology and evaluate legal case studies in sport law.
- Demonstrate competence in writing, oral, and interpersonal communication skills.

Sport Management, BS (43-612) (4 Year Guide)

Major Requirements: 53-60 Semester Hours

- SM 1100 - Introduction to Sport Management (3)

- SM 2300 - Leisure and Sport (3)
- SM 3210 - Sport and Media (3)
- SM 3500 - Sport Leadership (3)
- SM 3600 - Sport Finance (3)
- SM 3700 - Sport Facility Management (3)
- SM 3720 - Managing Sport Events (3)
- SM 4000 - Seminar in Sport Management (3)
- SM 4200 - Applied Sport Marketing (3)
- SM 4220 - Sport Sponsorship and Retention (3)
- SM 4300 - Recreational Sport Management (3)
- SM 4400 - Sport Communication (3)
- SM 4980 - Internship (6) ¹⁰ (6 or 12)
- ECON 2033 - Economic Applications in Sports (3)
- MGT 3315 - Management of Organizations (3)
- MKT 3405 - Principles of Marketing (3)

- BLAW 2720 - Legal Environment of Business (3)
- OR**
- PE 4740 - Legal Liability in Fitness/Wellness, Physical Education, Recreation and Sport Settings (2)

General Education Requirements: 43 Semester Hours

All students must complete a minimum of 42 credit hours in general education. Some majors require additional hours due to required coursework. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major:

- CIS 1600 - Business Information Management GE (3)
- ECON 1010 - Principles of Macroeconomics GE (3)

Free Electives: 17-24 Semester Hours

(Contact SM faculty advisor for guidance)

Minimum Total: 120 Semester Hours

¹⁰ Competency 10 course

School of Aviation

<https://www.ucmo.edu/aviation/>

The School of Aviation
 TR Gaines 210
 660-543-4969
[ucmo.edu/aviation](https://www.ucmo.edu/aviation)

School of Aviation Statement of Policy

Only courses with a grade of C or better (including transfer courses) may be used to fulfill a major or minor requirement in any program offered by the School of Aviation.

Students pursuing flight training in their program must hold at least a Second (2nd) Class FAA Medical Certificate before any flight operations may commence.

The number of flight slots varies each semester as they are based on the number of available flight instructors - as a result, there may be delays in degree progress.

Students pursuing flight training may request immediate enrollment in subsequent flight courses at any time during a published term if the prerequisite has been satisfactorily completed.

Aeronautics Certificate (10-861) (12-13 hours)

Certificate

Required Courses: 12-13 Semester Hours

- AVIA 1020 - Aeronautics (2)
- AVIA 3030 - Sport Aviation (2)
- AVIA 4060 - Aerospace Education (2-3) (2)
- AVIA 1903 - Aviation History (2)

General Education or Graduate Level Preparation: 3-4 Semester Hours

General Education¹ or Graduate Level Preparation²

- AVIA 4090 - Aviation Law (3) ²
- AVIA 4500 - Aviation Safety (3) ²
- ECON 1010 - Principles of Macroeconomics GE (3) ¹
- ENGL 1020 - Composition I GE (3) ¹
- MATH 1111 - College Algebra GE (3) ¹
- PHYS 1104 - Introduction to the Sciences: Physics GE (4: 4 lecture, 0 lab) ¹

Note:

AVIA 4090 and AVIA 4500 are intended for students who wish to enter our graduate degree program.

Aviation Maintenance Management 2+2, BS (43-562) (120 hours)

Major, Bachelor of Science Degree

This "2+2" program is designed to build upon an Associate Degree in Aviation Maintenance. The mission of the Aviation Maintenance Management B.S. program is to prepare students for ready advancement into aviation maintenance management professions by developing sound and advanced student skills including critical thinking and teamwork, attainment of aviation knowledge and awareness of current aviation

management issues in aviation maintenance, infused with safety practices and practical applications in a real world environment.

The graduate with a Bachelor of Science degree in Aviation Maintenance Management 2+2 will be able to:

- Express oneself clearly and concisely in writing and speech.
- Complete and present projects based on research, data interpretation, and analysis.
- Complete work utilizing inputs and outputs from other members in team projects including simulated work environments.
- Define solutions to challenges that require critical thinking.
- Explain aviation terminology and list relevant key literature references in the student's subject field.
- Recognize and solve typical practical and theoretical real life problems in the student's aviation field.
- Discuss safety, economic, and political issues that affect aviation activities in the student's career area.
- Define the key issues affecting leadership and management in the aviation industry.
- Define further career options, academic learning opportunities, and professional training and certification opportunities upon graduation.
- Apply for next-step career opportunities using qualifications, experience, and interview skills gained in the course of the student's study program.

Aviation Maintenance Management 2+2, BS (43-562) (4 Year Guide)

Major Requirements: 74 Semester Hours

Associate Degree Technical Courses: 42 Semester Hours

A technology related Associate in Aviation Maintenance from an accredited community college or technical institute in this field of study will be accepted. Forty-two hours of the degree transferred should apply towards the major and the remainder towards General Education. The General Education requirements transferred must be equivalent to UCM's requirements. In addition, the Federal Aviation Administration's Airframe and/or Powerplant certificate is required prior to completion of this degree program. Any student that does not possess an Airframe or Powerplant certificate must have their FAA certificate of eligibility allowing them to test for the Airframe and/or Powerplant certificates before they can be accepted into this degree program.

Requirements: 20 Semester Hours

- AVIA 3710 - Professional Ethics in Aviation (2)
- AVIA 2040 - Aviation Management (3)
- AVIA 4090 - Aviation Law (3)
- AVIA 4500 - Aviation Safety (3)
- AVIA 4420 - Air Transportation (3)
- AVIA 4430 - Corporate Aviation Management (3) ¹⁰

- MGT 3315 - Management of Organizations (3)
OR
- INDM 4210 - Industrial Management (3)

Choose One Area: 15 Semester Hours

Area 1 - Management Focus: 15 Semester Hours

- ACCT 1101 - Foundations of Financial Reporting (3)
- BLAW 2720 - Legal Environment of Business (3)

- HRM 3920 - Human Resource Management (3)
- **OR**
- INDM 4260 - Organizational Dynamics (3)

- MKT 3405 - Principles of Marketing (3)
- Elective-Any AVIA course (3)

Area 2 - Maintenance Focus: 15 Semester Hours

- AVIA 1215 - General A&P Applications (3)
- AVIA 1218 - FAA Maintenance Regulations (3)

- AVIA 1216 - Airframe Applications (3)
- **OR**
- AVIA 1217 - Powerplant Applications (3)

- Elective - Any AVIA course (6)

Note:

Area 2 does not fulfill the university's minimum number of required upper-level (3000/4000) hours.

Area 3 - Flight Focus: 15 Semester Hours

- AVIA 1310 - FAA Private Requirements (4)
- AVIA 2325 - Instrument Rating Ground School (4)
- FLYA 1320 - Private Flight A (1)
- FLYA 1321 - Private Flight B (1)
- FLYA 2313 - Instrument Flight A (1)
- FLYA 2314 - Instrument Flight B (1)
- Elective-Any AVIA course (3)

Note:

All incoming students intending to major in Aviation Maintenance Management-Option 3- Flight Focus will be classified as pre-aviation students for their first semester and are required to take AVIA 1310 - FAA Private Requirements (4). This course must be completed with a final grade of "B" or higher, and all other academic coursework must be completed with no Failing grades or any academic-related issues. Students are required to maintain a minimum overall GPA of 2.25 to maintain flight status for FLYA courses.

After successfully completing the pre-aviation first semester, students will be allowed to declare their major in Maintenance Management-Flight Focus. Students then must pass the FAA Private Pilot Knowledge Test before they are allowed to enroll in FLYA 1320 - Private Flight A (1) (flight training).

Flight training scheduling (flight time) is competitive and is based on academic performance and other metrics. Should flight schedules reach full capacity, Aviation Maintenance Management-Flight Focus students may have their placement in the schedule delayed by a semester or more.

Incoming aviation program students with an FAA Private Pilot Certificate will have a mandatory skills evaluation with the Chief Flight Instructor, consisting of both ground and flight components. Costs associated with the flight portion of this evaluation are the responsibility of the student.

The student's performance during the requisite evaluation will determine placement in ground and flight courses; additional coursework or remedial flight training may be required.

Students entering the aviation program with their Private Pilot Certificate can receive 6 credit hours (equivalency for AVIA 1310/FLYA 1320/FLYA 1321) after completing the Instrument Rating End of Course Examination (EOC). Although students are expected to complete the pre-aviation requirements before being placed on the flight schedule, UCM Aviation may grant provisional flight status to students who are making exemplary academic progress during the pre-aviation semester. The number of students who may be granted this special status is based on the number of flight slots available for primary flight training and other factors. Any student granted provisional flight status will be required to pass the FAA Private Pilot Knowledge Test in order to continue flying in the following semester.

General Education Requirements: 42 Semester Hours

All students must complete a minimum of 42 credit hours in general education. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major:

- ECON 1010 - Principles of Macroeconomics GE (3)
- FIN 1820 - Personal Finance GE (3)
- MATH 1131 - Applied Calculus GE (3)
- PHYS 1104 - Introduction to the Sciences: Physics GE (4: 4 lecture, 0 lab)

Minimum Total: 120 Semester Hours

¹⁰ Competency 10 course

Aviation Management, BS (43-570) - Airport Management Option (AM02) (120 hours)

Major, Bachelor of Science Degree

The mission of the Aviation Management (Option 1 - Flight Operations Management) B.S. program is to prepare students for ready advancement into flight operations management professions by developing sound and advanced student skills including critical thinking and teamwork, attainment of aviation knowledge and awareness of current aviation management issues in flight operations, infused with safety practices and practical applications in real world environments.

The mission of the Aviation Management (Option 2 - Airport Management) B.S. program is to prepare students for ready advancement into airport management professions by developing sound and advanced student skills including critical thinking and teamwork, attainment of aviation knowledge and awareness of current aviation management issues in airport management, infused with safety practices and practical applications in real world environments.

The graduate with a Bachelor of Science degree in Aviation Management will be able to:

- Express oneself clearly and concisely in writing and speech.
- Complete and present projects based on research, data interpretation, and analysis.
- Complete work utilizing inputs and outputs from other members in team projects including simulated work environments.
- Define solutions to challenges that require critical thinking.
- Explain aviation terminology and list relevant key literature references in the student's subject field.
- Recognize and solve typical practical and theoretical real life problems in the student's aviation field.
- Discuss safety, economic, and political issues that affect aviation activities in the student's career area.
- Define the key issues affecting leadership and management in the aviation industry.
- Define further career options, academic learning opportunities, and professional training and certification opportunities upon graduation.
- Apply for next-step career opportunities using qualifications, experience, and interview skills gained in the course of the student's study program.

Aviation Management, BS (43-570) - Airport Management Option (AM02) (4 Year Guide)

Major Requirements: 78 Semester Hours

Core: 44 Semester Hours

- AVIA 1310 - FAA Private Requirements (4)
- AVIA 1903 - Aviation History (2)
- AVIA 2040 - Aviation Management (3)
- AVIA 3710 - Professional Ethics in Aviation (2)
- AVIA 4090 - Aviation Law (3)
- AVIA 4500 - Aviation Safety (3)
- ACCT 1101 - Foundations of Financial Reporting (3)
- BLAW 2720 - Legal Environment of Business (3)
- FIN 2801 - Business Statistics I (3)
- FIN 3850 - Principles of Finance (3)
- HRM 3920 - Human Resource Management (3)
- INDM 4250 - Project Management (3)
- MKT 3405 - Principles of Marketing (3)
- PR 2620 - Principles of Public Relations (3)

- MGT 3315 - Management of Organizations (3)
- **OR**
- INDM 4210 - Industrial Management (3)

Airport Management Option: 34 Semester Hours

- AVIA 3022 - Aviation Internship (1-3) (3)
- AVIA 3045 - Airport Management (3)
- AVIA 3046 - Airport Certification (3)
- AVIA 4100 - Airport Leadership A (2)

- AVIA 4101 - Airport Leadership B (2) ¹⁰
- ATM 4410 - Intermodal Transportation (3)
- CADD 1110 - Fundamentals of Drafting (3: 3 lecture, 0 lab)
- CADD 1170 - Introduction to Computer-Aided Drafting (3: 3 lecture, 0 lab)

- AVIA 4420 - Air Transportation (3)
OR
- AVIA 4430 - Corporate Aviation Management (3)

- AVIA 3620 - Principles of Aviation Accident Causation (3)
OR
- SAFE 3000 - Principles of Accident Causation and Prevention (3)

- Electives (free choice) (6)

General Education Requirements: 42 Hours

All students must complete a minimum of 42 credit hours in general education. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major:

- ECON 1010 - Principles of Macroeconomics GE (3)
- FIN 1820 - Personal Finance GE (3)
- MATH 1131 - Applied Calculus GE (3)
- PHYS 1104 - Introduction to the Sciences: Physics GE (4: 4 lecture, 0 lab)

Minimum Total: 120 Semester Hours

¹⁰ Competency 10 course

Aviation Management, BS (43-570) - Flight Operations Management Option (AM01) (120 hours)

Major, Bachelor of Science Degree

The mission of the Aviation Management (Flight Operations Management Option) B.S. program is to prepare students for ready advancement into flight operations management professions by developing sound and advanced student skills including critical thinking and teamwork, attainment of aviation knowledge and awareness of current aviation management issues in flight operations, infused with safety practices and practical applications in real world environments.

The graduate with a Bachelor of Science degree in Aviation Management will be able to:

- Express oneself clearly and concisely in writing and speech.
- Complete and present projects based on research, data interpretation, and analysis.
- Complete work utilizing inputs and outputs from other members in team projects including simulated work environments.
- Define solutions to challenges that require critical thinking.
- Explain aviation terminology and list relevant key literature references in the student's subject field.

- Recognize and solve typical practical and theoretical real life problems in the student's aviation field.
- Discuss safety, economic, and political issues that affect aviation activities in the student's career area.
- Define the key issues affecting leadership and management in the aviation industry.
- Define further career options, academic learning opportunities, and professional training and certification opportunities upon graduation.
- Apply for next-step career opportunities using qualifications, experience, and interview skills gained in the course of the student's study program.

Aviation Management, BS (43-570) - Flight Operations Management Option (AM01) (4 Year Guide)

Major Requirements: 78 Semester Hours

Core: 44 Semester Hours

- AVIA 1310 - FAA Private Requirements (4)
- AVIA 1903 - Aviation History (2)
- AVIA 2040 - Aviation Management (3)
- AVIA 3710 - Professional Ethics in Aviation (2)
- AVIA 4090 - Aviation Law (3)
- AVIA 4500 - Aviation Safety (3)
- ACCT 1101 - Foundations of Financial Reporting (3)
- BLAW 2720 - Legal Environment of Business (3)
- FIN 2801 - Business Statistics I (3)
- FIN 3850 - Principles of Finance (3)
- HRM 3920 - Human Resource Management (3)
- INDM 4250 - Project Management (3)
- PR 2620 - Principles of Public Relations (3)
- MKT 3405 - Principles of Marketing (3)

- MGT 3315 - Management of Organizations (3)
- **OR**
- INDM 4210 - Industrial Management (3)

Flight Operations Management Option: 34 Semester Hours

- AVIA 2325 - Instrument Rating Ground School (4)
- AVIA 2350 - Aviation Weather (3)
- AVIA 3010 - Aerodynamics (3)
- AVIA 3080 - Air Traffic Control (3)
- AVIA 4380 - Flight Operations Management (3)
- AVIA 4420 - Air Transportation (3)
- AVIA 4430 - Corporate Aviation Management (3)
- 10
- FLYA 1320 - Private Flight A (1)
- FLYA 1321 - Private Flight B (1)
- FLYA 2313 - Instrument Flight A (1)

- FLYA 2314 - Instrument Flight B (1)
- Electives (free choice) (8)

Note:

The Professional Pilot degree option is FAA approved for the Restricted Airline Transport Pilot Certificate (R-ATP). Schedule a meeting with the Chief Flight instructor for additional information and guidance on the R-ATP as soon as possible after admittance into the degree program.

All incoming students intending to major in Aviation Management-Flight Operations Management will be classified as pre-aviation students for their first semester and are required to take AVIA 1020 - Aeronautics (2) (or another course as specified) and AVIA 1310 - FAA Private Requirements (4) . These courses must be completed with a final grade of "B" or higher, and all other academic coursework must be completed with no Failing grades or any academic-related issues. Once these requirements are met and the FAA Private Knowledge Test is passed, the student will be allowed to enroll in the appropriate flight lab. After successfully completing the requirements of the Pre-Aviation semester, the student will be allowed to declare their major as Aviation Management-Flight Operations. After the Pre-Aviation Semester, students are required to maintain a minimum overall GPA of 2.50 to maintain flight status for FLYA courses.

Flight training scheduling (flight time) is competitive and is based on academic performance and other metrics. Incoming aviation program students with an FAA Private Pilot Certificate will have a mandatory skills evaluation with the Chief Flight Instructor, consisting of both ground and flight components. Costs associated with this evaluation are the responsibility of the student. The student's performance during the requisite evaluation will determine placement in ground and flight courses; additional coursework or remedial flight training may be required. Students entering the aviation program with their Private Pilot Certificate can receive 6 credit hours (equivalency for AVIA 1310/FLYA 1320/FLYA 1321) after completing the Instrument Rating End of Course Examination (EOC).

Although students are expected to complete the pre-aviation requirements before being placed on the flight schedule, UCM Aviation may grant provisional flight status to students who are making exemplary academic progress during the pre-aviation semester. The number of students who may be granted this special status is based on the number of flight slots available for primary flight training and other factors. Any student granted provisional flight status will be required meet the performance expectations of the pre-aviation courses and pass the FAA Private Pilot Knowledge Test in order to continue flying in the following semester.

General Education Requirements: 42 Hours

All students must complete a minimum of 42 credit hours in general education. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major:

- ECON 1010 - Principles of Macroeconomics GE (3)
- FIN 1820 - Personal Finance GE (3)
- MATH 1131 - Applied Calculus GE (3)
- PHYS 1104 - Introduction to the Sciences: Physics GE (4: 4 lecture, 0 lab)

Minimum Total: 120 Semester Hours

¹⁰ Competency 10 course

Aviation Minor (157) (21 hours)

Minor for a Bachelor's Degree

UCM does not confer teacher certification for this minor.

Minor Requirements: 21 Semester Hours

- AVIA 1020 - Aeronautics (2)
OR
- AVIA 1310 - FAA Private Requirements (4) (2-4)
- Approved electives in aviation (17-19) **

Note:

** Must include at least one upper-level (3000/4000) course to meet graduation requirements.

NOTE: Students majoring in any Aviation Department major are not eligible for this minor.

General Aviation Maintenance Transition Certificate (10-878) (12 hours)

Certificate

Required Courses: 12 Semester Hours

- AVIA 1215 - General A&P Applications (3)
- AVIA 1218 - FAA Maintenance Regulations (3)
- AVIA 1216 - Airframe Applications (3)
OR
- AVIA 1217 - Powerplant Applications (3)
- Any AVIA elective (3)

Professional Pilot, BS (43-554) (120 hours)

Major, Bachelor of Science Degree

The mission of the Professional Pilot degree program is to prepare students for ready placement and advancement in the aviation industry as airplane pilots, by providing a solid foundational skill set to include critical thinking and teamwork, aviation related technical knowledge and the appropriate FAA pilot certifications and ratings, an awareness of the current trends and issues within the context of modern flight operations, all infused with an emphasis on safety and risk management with practical applications in the real world environment.

The graduate with a Bachelor of Science degree in Professional Pilot will be able to:

- Express oneself clearly and concisely in writing and speech.
- Complete and present projects based on research, data interpretation, and analysis.

- Complete work utilizing inputs and outputs from other members in team projects including simulated work environments.
- Define solutions to challenges that require critical thinking.
- Explain aviation terminology and list relevant key literature references in the student's subject field.
- Recognize and solve typical practical and theoretical real life problems in the student's aviation field.
- Discuss safety, economic, and political issues that affect aviation activities in the student's career area.
- Define the key issues affecting leadership and management in the aviation industry.
- Define further career options, academic learning opportunities, and professional training and certification opportunities upon graduation.
- Apply for next-step career opportunities using qualifications, experience, and interview skills gained in the course of the student's study program.

All incoming aviation students are classified as "Pre-Aviation" for their first semester. Certain academic performance metrics must be met before being classified as "Professional Pilot" majors and beginning flight training. See "NOTES" for additional information.

Professional Pilot, BS (43-554) (4 Year Guide)

Major Requirements: 72 Semester Hours

Aviation Department Core: 20 Semester Hours

- AVIA 1310 - FAA Private Requirements (4)
- AVIA 1903 - Aviation History (2)
- AVIA 2040 - Aviation Management (3)
- AVIA 3710 - Professional Ethics in Aviation (2)
- AVIA 4090 - Aviation Law (3)
- AVIA 4500 - Aviation Safety (3)

- AVIA 4420 - Air Transportation (3)
- **OR**
- AVIA 4430 - Corporate Aviation Management (3)

Major Specialization (Professional Pilot): 52 Semester Hours

- AVIA 2310 - Propulsion Systems (3)
- AVIA 2325 - Instrument Rating Ground School (4)
- AVIA 2340 - Aircraft Systems and Components (3)
- AVIA 2345 - Glass Cockpits - G1000 (2)
- AVIA 2350 - Aviation Weather (3)
- AVIA 3010 - Aerodynamics (3)
- AVIA 3080 - Air Traffic Control (3)
- AVIA 3305 - FAA Commercial Requirements (3)
- AVIA 3360 - Flight Instructor - Airplane (3)
- AVIA 3370 - Transport Aircraft Systems (2)
- AVIA 3372 - Advanced Transport Aircraft Systems (2)
- AVIA 3610 - Human Factors (3)

- AVIA 4370 - Advanced Flight Crew Management (3) ¹⁰
- FLYA 1320 - Private Flight A (1)
- FLYA 1321 - Private Flight B (1)
- FLYA 2313 - Instrument Flight A (1)
- FLYA 2314 - Instrument Flight B (1)
- FLYA 3310 - Commercial Flight A (1)
- FLYA 3311 - Commercial Flight B (1)
- FLYA 3312 - Commercial Flight C (1)
- FLYA 3360 - Flight Instructor Lab - Airplane (1)

- FLYA 3315 - Commercial Flight D (1)
- **OR**
- FLYA 3415 - Commercial Flight D Multiengine (1)

- FLYA 3316 - Commercial Flight E (1)
- **OR**
- FLYA 3416 - Commercial Flight E Multiengine (1)

- FLYA 3317 - Commercial Flight F (1)
- **OR**
- FLYA 3417 - Commercial Flight F Multiengine (1)

- FLYA 3330 - Multi-Engine Certificate (1)
- **OR**
- FLYA 3430 - Single Engine Add-On (1)

- Any AVIA elective (3)

Note:

The Professional Pilot degree option is FAA approved for the Restricted Airline Transport Pilot Certificate (R-ATP). Schedule a meeting with the Chief Flight Instructor for additional information and guidance on the R-ATP as soon as possible after admittance into the degree program.

All incoming students intending to major in Professional Pilot will be classified as pre-aviation students for their first semester and are required to take AVIA 1903 - Aviation History (2) (or another course as specified) and AVIA 1310 - FAA Private Requirements (4). These courses must be completed with a final grade of "B" or higher, and all other academic coursework must be completed with no Failing grades or any academic-related issues. Once these requirements are met and the FAA Private Pilot Knowledge Test is passed, the student will be allowed to enroll in the appropriate flight lab. After successfully completing the requirements of the Pre-Aviation semester, the student will be allowed to declare their major as Professional Pilot. After the Pre-Aviation semester, students are required to maintain a minimum overall GPA of 2.50 to maintain flight status for FLYA courses.

Flight training scheduling (flight time) is competitive and is based on academic performance and other metrics.

Incoming aviation program students with an FAA Private Pilot Certificate will have a mandatory skills evaluation with the Chief Flight Instructor, consisting of both ground and flight components. Costs associated with this evaluation are the responsibility of the student.

The student's performance during the requisite evaluation will determine placement in ground and flight courses; additional coursework or remedial flight training may be required.

Students entering the aviation program with their Private Pilot Certificate can receive 6 credit hours (equivalency for AVIA 1310/FLYA 1320/FLYA 1321 after completing the Instrument Rating End of Course Examination (EOC). Although students are expected to complete the pre-aviation requirements before being placed on the flight schedule, UCM Aviation may grant provisional flight status to students who are making exemplary academic progress during the pre-aviation semester. The number of students who may be granted this special status is based on the number of flight slots available for primary flight training and other factors. Any student granted provisional flight status will be required to pass the FAA Private Pilot Knowledge Test in order to continue flying in the following semester. Any student granted flight status will be required to meet the performance expectations of the pre-aviation courses and pass the FAA Private Pilot Knowledge Test in order to continue flying in the following semester.

General Education Requirements: 42 Semester Hours

All students must complete a minimum of 42 credit hours in general education. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major:

- ECON 1010 - Principles of Macroeconomics GE (3)
- FIN 1820 - Personal Finance GE (3)
- MATH 1131 - Applied Calculus GE (3)
- PHYS 1104 - Introduction to the Sciences: Physics GE (4: 4 lecture, 0 lab)

Free electives: 6 Semester Hours

Minimum Total: 120 Semester Hours

¹⁰ Competency 10 course

School of Human Services

School of Human Services
Wood 005
660-543-4407
ucmo.edu/cdsw

Child and Family Development Minor (571) (21 hours)

Minor, Bachelor of Science Degree

Minor Requirements: 21 Semester Hours

- CFD 1010 - Individual and Family Relationships GE (3)
- CFD 1220 - Child and Adolescent Development (3)
- CFD 3230 - Family Systems and Lifespan Development (3)

Electives from the Following: 6 Semester Hours

- CFD 3260 - Youth Culture and Development (3)
- CFD 4250 - Selected Issues in Child and Family Development (3)
- CFD 4510 - Early Childhood Approaches (3)
- CFD 4520 - Multicultural Study and Approaches with Families (3)
- CFD 4530 - Transition to Marriage (3)
- CFD 4540 - Addiction and the Family (3)
- CFD 4550 - Health & Human Services (3)
- CFD 4560 - Divorce (3)
- CFD 4570 - Death, Loss, and Grief Across the Lifespan (3)
- CFD 4580 - Resilience in Children and Adolescents (3)
- CFD 4590 - Health Issues in Childhood and Adolescence (3)

Electives in Child and Family Development: 6 Semester Hours

Child and Family Development, BS (43-121) (120 hours)

Major, Bachelor of Science Degree

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.

Students must earn a grade of C or better in all courses with a CFD prefix.

Child and Family Development, BS (43-121) (4 Year Guide)

Major Requirements: 48 Semester Hours

- CFD 1220 - Child and Adolescent Development (3)
- CFD 1230 - Observation of Children (2)
- CFD 1450 - Valuing Differences: Discovering Common Ground (1)
- CFD 3230 - Family Systems and Lifespan Development (3)
- CFD 3240 - Parent-Child Interaction (3)
- CFD 3250 - Organization and Administration of Programs for Young Children (3)
- CFD 3260 - Youth Culture and Development (3)
- CFD 3710 - Field Experience in Child and Family Development (3)
- CFD 4220 - Sexuality Across the Lifespan (3)
- CFD 4260 - Adulthood (3)
- CFD 4710 - Internship (3)
- CFD 4745 - Senior Seminar (3) ¹⁰

- CFD 4850 - Family Policy and Advocacy (3)
- SOC 2805 - Introduction to Social Research (3)

Electives from the Following: 6 Semester Hours

- CFD 4250 - Selected Issues in Child and Family Development (3)
- CFD 4510 - Early Childhood Approaches (3)
- CFD 4520 - Multicultural Study and Approaches with Families (3)
- CFD 4530 - Transition to Marriage (3)
- CFD 4540 - Addiction and the Family (3)
- CFD 4550 - Health & Human Services (3)
- CFD 4560 - Divorce (3)
- CFD 4570 - Death, Loss, and Grief Across the Lifespan (3)
- CFD 4580 - Resilience in Children and Adolescents (3)
- CFD 4590 - Health Issues in Childhood and Adolescence (3)

Elective from the Following: 3 Semester Hours

- BTE 3110 - Consumer Finance and Economics (3)
- FCSE 3120 - Family Resource Management (3)

General Education Requirements: 42 Semester Hours

All students must complete a minimum of 42 credit hours in general education. Some majors require additional hours due to required coursework. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major:

- CFD 1010 - Individual and Family Relationships GE (3)
- ECEL 2110 - Diversity and Social Justice GE (3)
- HIST 1350 - History of the United States to 1877 GE (3)
OR
- HIST 1351 - History of the United States from 1877 GE (3)
- PSY 1100 - General Psychology GE (3)
OR
- SOC 1800 - General Sociology GE (3)

Free Electives: 30 Semester Hours

(contact CFD faculty advisor for guidance)

Minimum Total: 120 Semester Hours

¹⁰Competency 10 course

Social Work, BSW (48-847) (120 hours)

Major, Bachelor of Social Work Degree

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

- Identify as a professional social worker and conduct one's self accordingly.
- Apply social work ethical principles to guide professional practice.
- Apply critical thinking to inform and communicate professional judgments.
- Engage diversity and differences in practice.
- Advance human rights and social and economic justice.
- Engage in research-informed practice and practice-informed research.
- Apply knowledge of human behavior and the social environment.
- Engage in policy practice to advance social and economic well-being and to deliver effective social work services.
- Respond to contexts that shape practice.
- Engage, assess, intervene, and evaluate with individuals, families, groups, organizations, and communities.

Social Work Statement of Policy

A student may enroll in a course offered by the Social Work Program only if a grade of C or better is earned in each of the course's prerequisites taken.

Purpose

The purpose of the social work profession is to promote human and community well-being. The BSW Program prepares students for professional generalist social work practice or graduate education. Students are expected to demonstrate mastery of all competencies and practice behaviors identified by the accrediting body.

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 successful completion of all requirements.

Requirements for Admission to the Social Work Program

1. Completion of General Education courses listed as requirements of the social work major with a C or better.
2. Cumulative grade-point average of 2.00.
3. A minimum grade of C for courses listed as curriculum requirements of the social work major.
4. Completion of PSY 1100 , SOC 1800 , BIOL 2010, SOWK 2600, and SOWK 3601.
5. Students must complete a social work prefix course in residence prior to applying for admission into the social work program.
6. Submission of:
 1. Application for Admission to social work program.
 2. Transcript of all university work.
 3. Three references including one from the SOWK 3601 volunteer supervisor.
 4. Autobiographical statement.
7. The Admissions Packet will be distributed during an informational meeting scheduled for students enrolled in SOWK 3601. Students who miss the meeting or need assistance should meet with their faculty mentor. Admission to the program is required to enroll in SOWK 4630 and SOWK 4650 .
8. Successful completion of an interview with Social Work Admissions Committee.
9. Provisional admission requires the student to write a corrective action plan with approval by the faculty mentor prior to the end of the semester in which they receive a provisional admission. The

student will be interviewed a second time during the following semester, providing an opportunity to demonstrate time, effort and progress toward resolving provisional concerns.

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 better in all courses listed as requirements of the social work major.
2. Students failing to earn a grade of C or better in either SOWK 4660 - Field Practicum (9) or SOWK 4661 - Field Practicum Seminar (3) are not permitted to repeat the two courses and will not be allowed to continue in the Social Work Program at Central, nor be able to graduate with a BSW from the University of Central Missouri.
3. Adherence to the National Association of Social Workers' Code of Ethics.
4. Demonstrate professional demeanor and maintain social functioning that allows for effective beginning level generalist social work practice. Social Functioning refers to students' ability to cope with the demands generated by interaction with their environment, including school, work, family, and personal and professional relationships.
5. Demonstrate effective verbal and written communication skills.
6. Continued enrollment as a student in good standing at UCM. A student who has not maintained enrollment in good standing for a period of one year must have a retention hearing upon their return to the program.

Credit for Life Experience

Credit will not be given for life or previous work experience for courses required in the social work major.

Accreditation

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, BSW (48-847) (4 Year Guide)

Major Requirements: 51 Semester Hours

- SOC 2805 - Introduction to Social Research (3)
- SOC 3825 - Race and Ethnic Relations (3)
- SOWK 2600 - Introduction to Social Welfare and Social Work GE (3)
- SOWK 3601 - Social Work Practice and the Agency Experience (3)
- SOWK 3605 - Methods of Inquiry and Evaluation for Social Workers (3)
- SOWK 3610 - Social Work Practice: Basic Skills (3)
- SOWK 3612 - Human Behavior Across the Lifespan (3)
- SOWK 4612 - Human Behavior Social Systems (3)
- SOWK 4630 - Social Work Practice: Intervention with Families and Groups (3)
- SOWK 4640 - Social Work Practice: Intervention with Communities and Organizations (3)
- SOWK 4650 - Social Policy and Economic Justice (3)
- SOWK 4660 - Field Practicum (9)
- SOWK 4661 - Field Practicum Seminar (3) ¹⁰
- PSY 4440 - Abnormal Psychology (3)

- SOWK 4610 - Special Topics in Social Work (1-3) (3)
OR
- SOWK 4620 - Social Services and Policy with Older Adults (3)

General Education Requirements: 42 Semester Hours

All students must complete a minimum of 42 credit hours in general education. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major:

- BIOL 2010 - Human Biology GE (3)
- PSY 1100 - General Psychology GE (3)
- SOC 1800 - General Sociology GE (3)

Free Electives: 27 Semester Hours

Minimum Total: 120 Semester Hours

¹⁰ Competency 10 course

Speech-Language Pathology, BS (43-273) (120 hours)

Major, Bachelor of Science Degree

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, 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 related fields. The Master's degree is considered the entry level degree to enter the field of Speech-Language Pathology. UCM offers a Master's degree program that is accredited by the Council on Academic Accreditation of the American Speech-Language Hearing Association (ASHA) in Speech-Language Pathology. The clinical doctorate (AuD), not currently offered at UCM, is the entry level degree to enter the field of Audiology.

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 Communication Disorders courses unless the student is either provisionally or fully admitted to the undergraduate functional major in speech-language pathology: CD 1000, CD 1800, CD 2000, CD 2301, CD 3301, CD 4401, CD 4402, CD 4900. If the student is not provisionally or fully admitted to the undergraduate program, enrollment in Communication Disorders courses other than the ones listed above, shall be determined in conference with the director of undergraduate studies in the program.

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.

1. Admission of Non-Transfer Students

1. Admission Criteria:

1. Must have a minimal overall GPA of 3.20.
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 CTE 3060 or ENGL 1080.
3. Must have made a grade of C or better and a 3.20 GPA or better in the following CD courses: CD 1000, CD 1800, CD 2301, CD 3301.
4. Students may enroll in the four courses listed under I.A.3. a maximum of two times.
5. Students must complete a speech, language and hearing screening.
6. Students must submit a formal application for admission to the undergraduate Communication Disorders program.
7. Students who do not meet requirements I. A. 1-6. are ineligible for admission to the undergraduate Communication Disorders program.

2. Maintenance Criteria:

1. The first semester the student's overall GPA drops below a 3.20 after being admitted to the undergraduate program in Communication Disorders, the student will receive a letter of written academic warning from the Communication Disorders program.
2. Any student under academic warning whose overall GPA falls below a 3.20 for any subsequent semester will become ineligible to continue taking courses in the Communication Disorders program 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 3.20 in CD courses will receive a letter of warning. Students must obtain a grade of C or better and a 3.20 GPA or better in all CD courses taken prior to completing an undergraduate major in Communication Disorders. Students may enroll in any CD course a maximum of 2 times.
4. Students must maintain a cumulative GPA of 3.20 or higher.

2. Admission of Undergraduate Transfer Students

1. 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 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.

2. Maintenance Criteria:

1. Same as for non-transfer students.

3. Other

1. A minimum letter grade of a C or better and a 3.20 GPA 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 School of Human Services and/or to apply for full admission to the undergraduate major in speech-language pathology.

3. Post-Baccalaureate Students

Post-Baccalaureate Students must have permission of the program director to enroll in any Communication Disorders course.

4. Clinical Practicum Requirements

Undergraduate students will complete the following practicum requirements as described below:

Clinical Observation Requirements

Undergraduate students will complete 25 clock hours of clinical observation as follows:

1. CD 1800 : Observation of Clinical Practicum in Communication Disorders - 10 clock hours
2. CD 3503 : Principles of Clinical Management - 5 clock hours
3. CD 4504 : Introduction to Articulation and Phonological Disorders - 5 clock hours
4. CD 4505 : School Age Issues in Communication Disorders - 5 clock hours

Orientation Policies and Procedures

All first-semester clinicians must enroll in CD 4802 - Undergraduate Clinical Practicum (1). Students will pay a one-time fee for a Clinic Shirt and name tag.

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.

Student Clinicians participating in the Welch-Schmidt Center for Communication Disorders are expected to comply with all University of Central Missouri health requirements. This includes current tuberculosis (TB) test and updated immunizations as recommended by the US Center for Disease Control (CDC) and the Missouri Department of Health and Senior Services.

All immunizations that are required by the University of Central Missouri and recommended by the Centers for Disease Control and Prevention (CDC) and the Missouri Department of Health and Senior Services must be up to date prior to beginning clinical practicum. People who are not properly immunized pose a public health risk to their patients, co-workers and themselves.

If immunizations and TB tests are not up to date [for example, by virtue of an exemption], you may not be accepted at medical and/or educational clinical rotation sites, etc. This could prevent you from participating in a variety of clinical experiences which would ultimately prevent you from graduating.

Seasonal flu shots are being required by many external clinical sites and will not accept student clinicians who have not had this immunization.

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 may not be possible. A student unable to be placed in clinic will not be able to complete the program.

Grades

Students who are under academic warning from the School of Human Services 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 IV, and 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. For all courses listed on the KASA, students must achieve a grade of C or better. 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. The faculty of the Communication Disorders Program has determined a grade of "B" or competency of a "4" or "5" on the KASA demonstrates specific knowledge and/or skills have been acquired for clinical practicum. In cases where the student's progression in the acquisition of knowledge and/or skill does not meet expectations within the semester, a plan for clinical remediation may be established. Remediation plans are designed to improve a student's knowledge and skills in a specific area of weakness. Successful completion of remediation procedures does not alter the final course grade.

Credit for Life Experience

Credit **will not** be given for life or previous work experience for courses required in the speech-language pathology major.

Speech-Language Pathology, BS (43-273) (4 Year Guide)

Major Requirements: 56 Semester Hours

- AT 1625 - CPR/First Aid/AED for Health Care Professionals (1)
- CD 1000 - Introduction to Communication Disorders (3)
- CD 1800 - Observation of Clinical Practicum in Communication Disorders (1)
- CD 2301 - American Phonetics (3)
- CD 3301 - Anatomy and Physiology of Speech and Swallowing (2)

- CD 3304 - Speech Science (3)
- CD 3503 - Principles of Clinical Management (3)
- CD 4102 - Counseling Persons with Communication Disorders and Their Families (2)
- CD 4103 - Introduction to Evidence Based Practice in Communication Disorders (2)
- CD 4401 - Language Development (3)
- CD 4404 - Assessment and Treatment of Language-Based Literacy Disorders (3)
- CD 4501 - Basic Neuroscience for Speech-Language Pathologists (2)
- CD 4504 - Introduction to Articulation and Phonological Disorders (3)
- CD 4505 - School-age Issues in Communication Disorders (3)
- CD 4510 - Multicultural Issues in Communication Disorders (2)
- CD 4512 - Best Practices in Early Childhood Intervention (3)
- CD 4701 - Introduction to Audiology (3)
- CD 4706 - Hearing Measurement (3)
- CD 4708 - Aural Rehabilitation (3)
- CD 4802 - Undergraduate Clinical Practicum I (1)
- CD 4803 - Undergraduate Clinical Practicum II (1) ¹⁰
- PSY 3030 - Introduction to Statistics for Psychology (3)
- PSY 3220 - Life-Span Development (3)

General Education Requirements: 42 Semester Hours

All students must complete a minimum of 42 credit hours in general education. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major:

- CD 1401 - American Sign Language 1 GE (3)
- COMM 1000 - Public Speaking GE (3)
- PSY 1100 - General Psychology GE (3)

- BIOL 1003 - Introduction to the Sciences: Ecology GE (3)
- CHEM 1104 - Introduction to the Sciences: Chemistry GE (4: 4 lecture, 0 lab)
OR
- BIOL 1003 - Introduction to the Sciences: Ecology GE (3) (3)
- PHYS 1104 - Introduction to the Sciences: Physics GE (4: 4 lecture, 0 lab)
OR
- BIOL 1003 - Introduction to the Sciences: Ecology GE (3) (3)
- BIOL 1006 - Environmental Science/Ecology Lab GE (1:1 lab)
- CHEM 1103 - Introduction to the Sciences: Chemistry GE (3)
OR
- BIOL 1003 - Introduction to the Sciences: Ecology GE (3) (3)
- BIOL 1006 - Environmental Science/Ecology Lab GE (1:1 lab) (1:1 lab)
- PHYS 1103 - Introduction to the Sciences: Physics GE (3)

Free Electives: 22 Semester Hours

Minimum Total: 120 Semester Hours

¹⁰ Competency 10 course

School of Public Services

School of Public Services

The School of Public Services is comprised of:

- Criminal Justice & Criminology
 - Criminal Justice B.S.
 - Accelerated B.S./M.S. Criminal Justice
- Crisis & Disaster Management
 - Crisis & Disaster Management B.S.
 - Business Continuity Certificate
 - Emergency Management Certificate
 - Emergency Services Management Certificate
 - Environmental Hazards Certificate
- Military Science and Leadership
 - Army Reserve Officers Training Corps (ROTC)
 - Military Science Minor

Business Continuity Certificate (10-591) (12 hours)

Business Continuity Certificate: 12 Semester Hours

- CDM 3000 - Introduction to Crisis and Disaster Management (3)
- CDM 4715 - Business Continuity Planning (3)
- CDM 4735 - Critical Infrastructure (3)
- CDM 4745 - Crisis Management (3)

Corrections Minor (709) (24 hours)

Minor for a Bachelor's Degree

UCM does not confer teacher certification for this minor.

Minor Requirements: 24 Semester Hours

- CJ 1000 - Introduction to Criminal Justice GE (3)
- CJ 2000 - History of Corrections and Penal Institutions (3)
- CJ 3006 - Corrections (3)
- CJ 3104 - Institutional Operations (3)
- CJ 3310 - Law of Corrections and Prisoners' Rights (3)
- CJ 4006 - Probation, Parole and Community Corrections (3)
- CJ 4330 - Criminal Justice and the Mental Health Systems (3)
- CJ 4503 - Dynamics of Criminal Behavior (3)

Criminal Justice Minor (829) (21 hours)

Minor for a Bachelor's Degree

UCM does not confer teacher certification for this minor.

Minor Requirements: 21 Semester Hours

- CJ 1000 - Introduction to Criminal Justice GE (3)
- CJ 2300 - Criminal Law and Procedure (3)
- CJ 3006 - Corrections (3)
- CJ 3010 - Policing a Democratic Society (3)
- CJ 4503 - Dynamics of Criminal Behavior (3)
- Elective in criminal justice (6)

Criminal Justice, BS (43-842) (120 hours)

Major, Bachelor of Science Degree

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

- Identify moral and ethical issues inherent in the administration of justice and the practice of criminal justice.
- Explore the importance of the history, development, and current operation of our principal criminal justice institutions and their relationship to each other, the causes and prevention of crime, and the process of criminalization.
- Produce articulate, comprehensible, and grammatically correct oral and written communications using appropriate criminal justice information and resources.
- Analyze and critique qualitative and quantitative social science research.
- Analyze problems and develop solutions of issues regarding diversity and discrimination situations found in the criminal justice system.

Only courses with a grade of C or better (including transfer courses) may be used to fulfill a core requirement in any major or minor offered exclusively by the Department of Criminal Justice. Students taking CJ courses to meet the requirements of majors/minors in other departments may use a D grade to fulfill requirements, unless stipulated by that department. A student may enroll in a course offered by the Department of Criminal Justice only if a grade of C or better is earned in each of the course's prerequisites

taken. A grade of D or better will meet the requirements for the 15 hours of CJ electives taken to fulfill a CJ major or any electives required for a CJ minor.

Criminal Justice, BS (43-842) (4 Year Guide)

Major Requirements: 42 Semester Hours

- CJ 1000 - Introduction to Criminal Justice GE (3)
- CJ 2010 - Ethics in Criminal Justice (3)
- CJ 2300 - Criminal Law and Procedure (3)
- CJ 2700 - Introduction to Juvenile Justice (3)
- CJ 3006 - Corrections (3)
- CJ 3010 - Policing a Democratic Society (3)
- CJ 3600 - Introduction to Criminal Justice Research and Statistics (3)
- CJ 4020 - Crime, Justice and Social Diversity (3) ¹⁰
- CJ 4503 - Dynamics of Criminal Behavior (3)
- Criminal Justice electives (15)

General Education Requirements: 39 Semester Hours

All students must complete a minimum of 42 credit hours in general education. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major:

- CJ 1000 - Introduction to Criminal Justice GE (3)

Free Electives: 39 Semester Hours

Minimum Total: 120 Semester Hours

¹⁰ Competency 10 course

Crisis & Disaster Management, BS (43-693) (120 hours)

Major, Bachelor of Science Degree

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 a knowledge and application of the four phases of emergency management; preparedness, mitigation, response and recovery.
- Evaluate the roles, responsibilities and relationships between the private sector, public sector and non-governmental organizations in the response and recovery phases of an event.
- Select methods to identify and evaluate risk exposures from internal and external hazards and to implement cost effective programs to maintain continuity of operations.
- Employ effective communication skills, knowledge of program management, organizational skills and critical thinking.

- Select technology to organize information, to communicate and to manage all phases of emergency management.
- Recognize societal concerns, legal, professional and ethical responsibilities in the field.
- Value the importance of continuous professional development in the discipline.

Crisis and Disaster Management, BS (43-693) (4 Year Guide)

Major Requirements: 36 Semester Hours

- CDM 3000 - Introduction to Crisis and Disaster Management (3)
- CDM 3400 - Community Mitigation and Recovery (3)
- CDM 4200 - Disaster Management Technology (3)
- CDM 4400 - Research Issues in Crisis and Disaster Management (3)
- CDM 4800 - Integrated Emergency Management (3) ¹⁰
- CDM 4900 - Technology Application Studies (3)
- CDM 4910 - Field Exercise Project (1-3) (3)
- CDM 4990 - Practicum in Crisis and Disaster Management (3-6) (3)

Select One of the Following Areas: 12 Semester Hours

Business Continuity Area

- CDM 4715 - Business Continuity Planning (3)
- CDM 4735 - Critical Infrastructure (3)
- CDM 4745 - Crisis Management (3)
- Approved technical elective (3)

Emergency Management Area

- CDM 3035 - Emergency Response Planning (3)
- CDM 4015 - Catastrophic Readiness (3)
- CDM 4035 - Disaster and Society (3)
- Approved technical elective (3)

Emergency Services Management Area

- CDM 4515 - Safety and Health for Emergency Responders (3)
- CDM 4535 - Emergency Services Management (3)
- CDM 4575 - Emergency Services Personnel Management (3)
- Approved technical elective (3)

Environmental Hazards Area

- CDM 3225 - Hazardous Materials Emergency Response (3)
- CDM 4215 - Environmental Disasters (3)
- CDM 4245 - Managerial Issues in Hazardous Materials (3)
- Approved technical elective (3)

General Education Requirements: 42 Semester Hours

All students must complete a minimum of 42 credit hours in general education. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major:

- CHEM 1103 - Introduction to the Sciences: Chemistry GE (3)
OR
- CHEM 1104 - Introduction to the Sciences: Chemistry GE (4: 4 lecture, 0 lab)

Free Electives: 42 Semester Hours

Minimum Total: 120 Semester Hours

¹⁰ Competency 10 course

Emergency Management Certificate (10-592) (12 hours)

Emergency Management Certificate : 12 Semester Hours

- CDM 3000 - Introduction to Crisis and Disaster Management (3)
- CDM 3035 - Emergency Response Planning (3)
- CDM 4015 - Catastrophic Readiness (3)
- CDM 4035 - Disaster and Society (3)

Emergency Services Management Certificate (10-887) (12 hours)

Emergency Services Management Certificate: 12 Semester Hours

- CDM 3000 - Introduction to Crisis and Disaster Management (3)
- CDM 4515 - Safety and Health for Emergency Responders (3)
- CDM 4535 - Emergency Services Management (3)
- CDM 4575 - Emergency Services Personnel Management (3)

Environmental Hazards Certificate (10-593) (12 hours)

Environmental Hazards Certificate (10-593): 12 Semester Hours

- CDM 3000 - Introduction to Crisis and Disaster Management (3)
- CDM 3225 - Hazardous Materials Emergency Response (3)
- CDM 4215 - Environmental Disasters (3)
- CDM 4245 - Managerial Issues in Hazardous Materials (3)

International Justice Minor (855) (21 hours)

Minor for a Bachelor's Degree

UCM does not confer teacher certification for this minor.

Minor Requirements: 21 Semester Hours

- CJ 3020 - Comparative Justice Systems (3)
- CJ 4444 - Terrorism (3)
- POLS 3530 - International Organizations (3)
- POLS 3598 - International Human Rights (3)
- POLS 4530 - International Law (3)

Electives in Criminal Justice/Geography/Political Science/Sociology: 6 Semester Hours

- CJ 2405 - International Policing (3)
- CJ 4703 - International Juvenile Justice (3)
- SOC 3885 - Globalization and the Future (3)

- POLS 3522 - Modern Asia GE (3)
OR
- POLS 3524 - Middle East Politics (3)
OR
- POLS 3525 - Politics in Europe (3)
OR
- POLS 4520 - Principles of International Development (3)
OR
- GEOG 4270 - World Political Geography (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)

Juvenile Justice Minor (636) (21 hours)

Minor for a Bachelor's Degree

UCM does not confer teacher certification for this minor.

Minor Requirements: 21 Semester Hours

- CFD 3230 - Family Systems and Lifespan Development (3)
- CFD 3260 - Youth Culture and Development (3)
- CJ 2700 - Introduction to Juvenile Justice (3)
- CJ 4702 - Juvenile Corrections (3)
- CJ 4704 - Dynamics of Delinquent Behavior (3)

Choose 2 Electives: 6 Semester Hours

- CFD 4540 - Addiction and the Family (3)
- CFD 4550 - Health & Human Services (3)
- CFD 4580 - Resilience in Children and Adolescents (3)
- CJ 4701 - Juvenile Law & Policy (3)
- CJ 4703 - International Juvenile Justice (3)

Military Science Minor (201) (29-35 hours)

Minor for a Bachelor's Degree

UCM does not confer teacher certification for this minor

Minor Requirements: 29-34 Semester Hours

- MS 2500 - History of the US Army (3)
- MS 3310 - Platoon Operations (3: 3 lecture, 0 lab)
- MS 3320 - Applied Leadership in Platoon Operations (3)
- MS 3330 - Introduction to the Army Physical Fitness Program (2)
- MS 3340 - Concepts in Fitness Training Development (2)
- MS 4410 - Mission Command and the Army Profession (3: 3 lecture, 0 lab)
- MS 4420 - Mission Command and Company Grade Officer (3)
- MS 4430 - Management of the Unit Fitness Program (2)
- MS 4440 - The Army Master Fitness Training Program (2)
- MS 4510 - Cadet Advanced Camp (3)

Elective from the Following: 3-8 Semester Hours

- MS 2510 - Cadet Basic Camp (3)
OR
- Military Basic Training (3) *
OR
- MS 1110 - Introduction to the Army and Critical Thinking (2)
- MS 1120 - Introduction to the Profession of Arms (2)
- MS 2210 - Foundations of Leadership (2: 2 lecture, 0 lab)
- MS 2220 - Foundations of Tactical Leadership (2)

Note:

*Only available through the U.S. Army. Students successfully completing U.S. Army Basic Training will receive college credit based upon UCM's ACE articulation agreement.

Terrorism and Homeland Security Certificate (10-647) (12 hours)

Certificate

The Terrorism and Homeland Security undergraduate certificate program is designed to help students meet professional objectives. Each course contains specific and relevant information regarding the theoretical and

practical aspects of terrorism and those who perpetrate it. The student may choose to use this certificate as a career enhancement tool for entry level employment or advancement in a law enforcement or other agency. A student must earn a "C" or better with the courses listed to earn this certificate.

Required Courses: 12 Semester Hours

- CJ 1000 - Introduction to Criminal Justice GE (3)
- CJ 3020 - Comparative Justice Systems (3)
- CJ 4444 - Terrorism (3)
- CJ 4488 - Homeland Security (3)

Missouri Safety Center

<https://www.ucmo.edu/safetycenter/>

The Missouri Safety Center
Humphreys 200
660-543-4830
ucmo.edu/safetycenter/

Central Missouri Police Academy

These five classes constitute the curriculum of the Central Missouri Police Academy (CMPA); a basic Academy that exceeds the 600-hour minimum required for a Class A License. The Academy is licensed by the Missouri Department of Public Safety's Peace Officer Standards and Training (POST) Program. Students who graduate from the academy, and pass the POST exam, are eligible to be licensed Peace Officers and will receive 15 hours of elective credit toward a Bachelor's degree. **These courses are not open enrollment;** applicants must first be approved by the CMPA Director. The Central Missouri Police Academy's Expanded Basic Academy offers approximately 820+ hours of training that spans over two semesters. The two academy sessions are January through June and July through December.

Requirements: 15 Semester Hours

- MSC 2110 - Police Academy I (3)
- MSC 2120 - Police Academy II (3)
- MSC 2130 - Police Academy III (3)
- MSC 2140 - Police Academy IV (3)
- MSC 2150 - Police Academy V (3)

Driver Education (213)

The Missouri Department of Elementary and Secondary Education requires successful completion of the following courses to receive a Driver Education Instructor endorsement on a teaching certificate for grades 9-12. The first two courses (DRED 2010 & DRED 2020) are taught on-line during the Spring Semester. The remaining two courses (DRED 2030 & DRED 2040) are offered during the Summer Semester and have mandatory on-site commitments of 15 hours each for a total of 30 hours. These hours must be scheduled during the Missouri Safety Center's Summer High School Driver Education program, typically during the month of June each year. If a student has been fully admitted to a bachelor's degree, master's degree, education specialist degree, or teaching certification program offered at UCM, financial aid can normally be used to help pay the cost to enroll for the above classes.

Requirements: 12 Semester Hours

- DRED 2010 - Introduction to Safety Education (3)
- DRED 2020 - Driver Task Analysis (3)
- DRED 2030 - Developing Vehicle Operation Skills and Competencies (3)
- DRED 2040 - Developing Classroom Knowledge (3)

Central Missouri Police Academy Certificate (10-899) (18 hours)

Certificate

After completion of the certificate courses the student will be able to:

- Understand how the U.S. Constitution and Missouri Statutory Law specifically pertain to public safety and the law enforcement career field.
- Identify major issues in ethics, domestic violence and human behavior, and apply intellectual and practical tools to analyze those issues.
- Identify common problems in health, fitness and nutrition that apply to the public safety career field.
- Develop a personal physical training regimen to prevent and minimize health problems that are common among public safety professionals.
- Understand and apply elements of defensive tactics that pertain to public safety and the law enforcement field.
- Understand and apply traffic and vehicle regulations, investigate traffic accidents, complete accident reports and diagrams, and enforce pertinent traffic laws.
- Acquire the requisite handling, maintenance, and marksmanship skills in the use of handguns and shotguns, for the performance of law enforcement duties.
- Become certified in DWI detection and investigation, and become competent in illegal drug detection and reporting.
- Develop skills in law enforcement driving and vehicle stops.
- Understand problems associated with, and indicators of, gangs and organized crime.
- Apply legal and safe techniques in searches of persons, vehicles and buildings, handling hazardous materials, and responding to terrorism incidents.
- Understand and apply techniques of crime scene processing, collection, documentation and investigation; including property crimes and crimes against persons.
- Write professional police reports.
- Become certified as First Responders (First aid and medical assistance).
- Understand and demonstrate proper use of force techniques, applications, and decision making.
- Become certified in the use of expandable batons.

Required Courses: 18 Semester Hours

- MSC 2110 - Police Academy I (3)
- MSC 2120 - Police Academy II (3)
- MSC 2130 - Police Academy III (3)
- MSC 2140 - Police Academy IV (3)
- MSC 2150 - Police Academy V (3)
- MSC 2155 - Police Academy VI (3)

College of Health, Science, and Technology

The College of Health, Science, and Technology
Administration 105
660-543-4450
Fax 660-543-8031
ucmo.edu/chst

The College of Health, Science, and Technology is comprised of:

- School of Computer Science and Mathematics
- School of Geoscience, Physics, and Safety
- School of Natural Sciences
- School of Nursing
- School of Nutrition, Kinesiology and Psychological Science
- School of Technology

Click [here](#) for descriptions of all classes taught at the undergraduate level. Course descriptions can also be found online in MyCentral.

College of Health, 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-occupational therapy 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, physics, and pre-engineering 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 School of Natural Sciences for suggested curriculum.

School of Computer Science and Mathematics

<https://www.ucmo.edu/cs-math/>

The School of Computer Science and Mathematics
W.C. Morris 222

660-543-4930
ucmo.edu/cs-math

An option in Mathematics is offered: Secondary Education, BSE (41-695) - Mathematics Option (E459) (120 hours)

School of Computer Science and Mathematics 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 School of Computer Science and Mathematics.

A student may enroll in a course offered by the School of Computer Science and Mathematics only if a grade of C or better is earned in each of the course's prerequisites taken.

Actuarial Science and Statistics, BS (43-576) - Actuarial Science Option (AS01) (120 hours) [Also available as an accelerated program]

Major, Bachelor of Science Degree

A graduate with a Bachelor of Science degree in Actuarial Science and Statistics will use the knowledge and skills obtained in the program to:

- Communicate actuarial/statistical ideas clearly and coherently.
- Demonstrate the knowledge of the background and principle of solving problems in actuarial/statistical fields.
- Use actuarial/statistical software packages to solve real world problems.

Note: A minor in statistics is not available for this major.

Actuarial Science and Statistics, BS (43-576) - Actuarial Science Option (AS01) (4 Year Guide)

Major Core Requirements: 67-69 Semester Hours

Core: 44 Semester Hours

- ACST 2310 - Statistics and Data Analysis (3)
- ACST 3311 - Introduction to Probability and Statistics (3)
- ACST 4315 - Mathematical Statistics (3)
- ACST 4312 - Probability Models (3)
- ACST 4321 - Regression Analysis (3)
- ACST 4322 - Time Series Models and Analysis (3)
- ACST 4530 - Statistical Modeling (3)
- ACST 4645 - Senior Projects in Actuarial Science and Statistics (3) ¹⁰
- CS 1100 - Computer Programming I (3)
- MATH 1040 - Introduction to the Mathematical Sciences (1)
- MATH 1151 - Calculus I GE (5)
- MATH 1152 - Calculus II (5)

- MATH 2153 - Calculus III (3)
- CS 2400 - Discrete Structures (3)
OR
- MATH 2410 - Discrete Mathematics (3)

Actuarial Science Option: 32 Semester Hours

- ACST 4313 - Review for Actuarial Exam P/1 (1)
- ACST 4510 - Mathematics of Finance (3)
- ACST 4511 - Review for Actuarial Exam FM/2 (1)
- ACST 4520 - Life Contingencies I (3)
- CS 3800 - Applications Development with VB.NET (3)
- ECON 1010 - Principles of Macroeconomics GE (3)
- FIN 3861 - Financial Management I (3)
- FIN 4817 - Managing Financial Derivatives (3)
- RMI 3803 - Principles of Insurance (3)

Electives from the Following: 9 Semester Hours

- ACST 4323 - Statistical Aspects of Experimental Design (3)
- ACST 4331 - SAS Programming for Statistical Analysis (3)
- ACST 4390 - Internship in Actuarial Science or Statistics (1-6)
- ACCT 1101 - Foundations of Financial Reporting (3)
- ACCT 2102 - Principles of Managerial Accounting (3)
- ECON 1011 - Principles of Microeconomics GE (3)
- FIN 3850 - Principles of Finance (3)
- MATH 3151 - Differential Equations (3)
- MATH 3710 - Linear Algebra (3)

General Education Requirements: 39 Semester Hours

All students must complete a minimum of 42 credit hours in general education. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major:

- ECON 1010 - Principles of Macroeconomics GE (3)

Free Electives: 9-11 Semester Hours

Minimum Total: 120 Semester Hours

¹⁰ Competency 10 course

Accelerated Program Notes:

The Accelerated model for this program is designed for the MS Mathematics - Actuarial Science and Statistics Option.

UCM students with a major GPA of at least 3.00 may consult with their faculty advisor and complete a school application to declare the accelerated BS/MS in Mathematics - Actuarial Science and Statistics Option. Prior to beginning the graduate portion of the program, student in the accelerated program will need to apply to the UCM Graduate School for formal admittance to the Accelerated BS/MS program. Admission into the Accelerated BS/MS program requires a minimum undergraduate cumulative GPA of 2.50 or higher.

Accelerated student may be eligible to include the following courses as overlap between the undergraduate and graduate programs. They would be taken at the Graduate level (5XXX):

ACST 4315 - Mathematical Statistics (3)

ACST 4331 - SAS Programming for Statistical Analysis (3)

ACST 4520 - Life Contingencies I (3)

ACST 4530 - Statistical Modeling (3)

Actuarial Science and Statistics, BS (43-576) - Statistics Option (AS02) (120 hours) [Also available as an accelerated program]

Major, Bachelor of Science Degree (43-576)

A graduate with a Bachelor of Science degree in Actuarial Science and Statistics will use the knowledge and skills obtained in the program to:

- Communicate actuarial/statistical ideas clearly and coherently.
- Demonstrate the knowledge of the background and principle of solving problems in actuarial/statistical fields.
- Use actuarial/statistical software packages to solve real world problems.

Note: A minor in statistics is not available for this major.

Actuarial Science and Statistics, BS (43-576) - Statistics Option (AS02) (4 Year Guide)

Major Requirements: 67-69 Semester Hours

Core: 44 Semester Hours

- ACST 2310 - Statistics and Data Analysis (3)
- ACST 3311 - Introduction to Probability and Statistics (3)
- ACST 4312 - Probability Models (3)
- ACST 4315 - Mathematical Statistics (3)
- ACST 4321 - Regression Analysis (3)
- ACST 4322 - Time Series Models and Analysis (3)
- ACST 4530 - Statistical Modeling (3)
- ACST 4645 - Senior Projects in Actuarial Science and Statistics (3) ¹⁰
- CS 1100 - Computer Programming I (3)
- MATH 1040 - Introduction to the Mathematical Sciences (1)
- MATH 1151 - Calculus I GE (5)

- MATH 1152 - Calculus II (5)
- MATH 2153 - Calculus III (3)
- CS 2400 - Discrete Structures (3)
OR
- MATH 2410 - Discrete Mathematics (3)

Statistics Option: 30-32 Semester Hours

- ACST 4323 - Statistical Aspects of Experimental Design (3)
- ACST 4331 - SAS Programming for Statistical Analysis (3)
- CS 1110 - Computer Programming II (3)
- CS 2300 - Data Structures (3)
- CS 4600 - Database Theory and Applications (3)
- CS 4630 - Data Mining (3)
- MATH 3710 - Linear Algebra (3)

Electives from the Following: 9-11 Semester Hours

- ACST 4390 - Internship in Actuarial Science or Statistics (1-6)
- ACST 4313 - Review for Actuarial Exam P/1 (1)
- ACST 4510 - Mathematics of Finance (3)
- ACST 4511 - Review for Actuarial Exam FM/2 (1)
- ACST 4520 - Life Contingencies I (3)
- CS 3600 - Introduction to Data Visualization (3)
- CS 3800 - Applications Development with VB.NET (3)
- CS 4620 - Big Data Analytics (3)
- CS 4700 - Artificial Intelligence (3)
- CS 4710 - Introduction to Machine Learning (3)
- MATH 3151 - Differential Equations (3)
- MATH 4150 - Advanced Calculus I (3)

General Education Requirements: 42 Semester Hours

All students must complete a minimum of 42 credit hours in general education. See The General Education Program Requirements for full listing of requirements.

Free Electives 6-8 Semester Hours

Minimum Total: 120 Semester Hours

¹⁰ Competency 10 course

Accelerated Program Notes:

The Accelerated model for this program is designed for the MS Mathematics - Actuarial Science and Statistics Option.

UCM students with a major GPA of at least 3.00 may consult with their faculty advisor and complete a school application to declare the accelerated BS/MS in Mathematics - Actuarial Science and Statistics Option. Prior to beginning the graduate portion of the program, student in the accelerated program will need to apply to the UCM Graduate School for formal admittance to the Accelerated BS/MS program. Admission into the Accelerated BS/MS program requires a minimum undergraduate cumulative GPA of 2.50 or higher.

Accelerated student may be eligible to include the following courses as overlap between the undergraduate and graduate programs. They would be taken at the Graduate level (5XXX):

ACST 4315 - Mathematical Statistics (3)

ACST 4323 - Statistical Aspects of Experimental Design (3)

ACST 4331 - SAS Programming for Statistical Analysis (3)

ACST 4530 - Statistical Modeling (3)

Bioinformatics, BS (43-653) - Biological Science Option (0030) (120 hours)

Major, Bachelor of Science Degree

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

- Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions
- Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline
- Communicate effectively in a variety of professional contexts
- Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles
- Function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline
- Apply computational, mathematical and statistical approaches to analyze biological data
- Integrate informatics including statistical software packages with fundamental biological principles to solve problems

Bioinformatics, BS (43-653) - Biological Science Option (0030) (4 year Guide)

Major Requirements: 93-95 Semester Hours

Core: 73 Semester Hours

- ACST 2310 - Statistics and Data Analysis (3)
- BIOL 1510 - Investigative Biology (4: 3 lecture, 1 lab)
- BIOL 2512 - Cell Biology (3)

- BIOL 3511 - Genetics (4: 3 lecture, 1 lab)
- BIOL 4514 - Molecular Biology (3)
- BIOL 4515 - Molecular Technology (3: 2 lecture, 1 lab)
- CHEM 1131 - General Chemistry I GE (5: 5 lecture, 0 lab)
- CHEM 1132 - General Chemistry II (5: 5 lecture, 0 lab)
- CHEM 3341 - Organic Chemistry I (4: 4 lecture, 0 lab)
- CHEM 3421 - Biochemistry (3)
- CS 1000 - Computers and Modern Society GE (3)
- CS 1020 - Introduction to Biomedical Informatics GE (3)
- CS 1100 - Computer Programming I (3)
- CS 1110 - Computer Programming II (3)
- CS 2300 - Data Structures (3)
- CS 3650 - Fundamentals of Bioinformatics I (3)
- CS 4300 - Algorithm Design and Analysis (3)
- CS 4600 - Database Theory and Applications (3)
- CS 4630 - Data Mining (3)
- CS 4650 - Fundamentals of Bioinformatics II (3)
- CS 2400 - Discrete Structures (3)
- **OR**
- MATH 2410 - Discrete Mathematics (3)
- COMM 1000 - Public Speaking GE (3)
- **OR**
- MKT 1401 - Professional Speaking and Presentation GE (3)

Biological Science Option: 20-22 Semester Hours

Required Option Courses: 8-10 Semester Hours

- BIOL 1000 - The Discipline of Biology (1)
- BIOL 4002 - Life Science Senior Seminar (1)
- BIOL 4222 - The Biological Perspective (3) ¹⁰
- MATH 1131 - Applied Calculus GE (3)
- **OR**
- MATH 1151 - Calculus I GE (5)

Electives from the following: 12 Semester Hours

- BIOL 1110 - Principles of Biology (3)
- BIOL 1111 - Plant Biology (4: 3 lecture, 1 lab)
- BIOL 1112 - Animal Biology (4: 3 lecture, 1 lab)
- BIOL 4709 - Plant Ecology (4: 2 lecture, 2 lab)
- BIOL 4710 - Limnology (4: 2 lecture, 2 lab)
- BIOL 4711 - Animal Ecology (4: 3 lecture, 1 lab)
- BIOL 4919 - Wildlife Policy and Law (3)

- BIOL 4953 - Ecology Field Course (1-6)
- BIOL 4400 - Endocrinology (2)
- BIOL 4411 - Plant Physiology (4: 2 lecture, 2 lab)
- BIOL 4516 - Hematology/Virology (3)
- BIOL 4517 - Serology Laboratory (1)
- BIOL 4102 - Evolution (3)
- BIOL 4210 - Ichthyology (4: 3 lecture, 1 lab)
- BIOL 4221 - Mammalogy (4: 2 lecture, 2 lab)
- BIOL 4223 - Ornithology (4: 2 lecture, 2 lab)
- BIOL 4232 - Herpetology (4: 2 lecture, 2 lab)
- BIOL 4311 - Parasitology (4: 2 lecture, 2 lab)
- BIOL 4312 - Entomology (4: 2 lecture, 2 lab)
- BIOL 3711 - Plant Identification (4: 3 lecture, 1 lab)
- BIOL 3712 - Field Techniques in Biology (4: 1 lecture, 3 lab)
- BIOL 3721 - Wildlife Management (3)
- BIOL 4013 - Introduction to Experimental Design and Analysis (3)
- BIOL 4014 - Internship in Biology (1-9)
- BIOL 3402 - Human Physiology (5: 4 lecture, 1 lab)
- BIOL 3413 - Immunology (3)
- BIOL 3414 - Histology (3: 2 lecture, 1 lab)
- BIOL 3431 - Animal Physiology (4: 2 lecture, 2 lab)
- BIOL 3709 - Dendrology (4: 3 lecture, 1 lab)
- BIOL 2020 - General Ecology (3)
- BIOL 3211 - Comparative Anatomy (4: 2 lecture, 2 lab)
- BIOL 3213 - Embryology of Vertebrates (3: 2 lecture, 1 lab)
- BIOL 3401 - Human Anatomy (3: 1 lecture, 2 lab)
- CHEM 3342 - Organic Chemistry II (4: 4 lecture, 0 lab)
- CHEM 4431 - Biochemistry Laboratory (2)
- GEOS 4220 - Geographic Information Systems I (3)
- MATH 1152 - Calculus II (5)

- PHYS 1101 - College Physics I GE (4: 4 lecture, 0 lab)
OR
- PHYS 2121 - University Physics I GE (5: 5 lecture, 0 lab)
OR
- PHYS 2123 - University Physics I (4)

- PHYS 1102 - College Physics II (4: 4 lecture, 0 lab)
OR
- PHYS 2122 - University Physics II (5: 5 lecture, 0 lab)
OR
- PHYS 2124 - University Physics II (4)

General Education Requirements: 27 Semester Hours

- CS 1000 - Computers and Modern Society GE (3)
- CS 1020 - Introduction to Biomedical Informatics GE (3)
- CHEM 1131 - General Chemistry I GE (5: 5 lecture, 0 lab)

- COMM 1000 - Public Speaking GE (3)
OR
- MKT 1401 - Professional Speaking and Presentation GE (3)
- MATH 1131 - Applied Calculus GE (3)
OR
- MATH 1151 - Calculus I GE (5)

Minimum Total: 120 Semester Hours

¹⁰ Competency 10 course

Bioinformatics, BS (43-653) - Computing and Statistics Option (0029) (120 hours)

Major, Bachelor of Science Degree

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

- Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions
- Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline
- Communicate effectively in a variety of professional contexts
- Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles
- Function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline
- Apply computational, mathematical and statistical approaches to analyze biological data
- Integrate informatics including statistical software packages with fundamental biological principles to solve problems

Bioinformatics, BS (43-653) - Computing and Statistics Option (0029) (4 year Guide)

Major Requirements: 91-93 Semester Hours

Core: 73 Semester Hours

- ACST 2310 - Statistics and Data Analysis (3)
- BIOL 1510 - Investigative Biology (4: 3 lecture, 1 lab)
- BIOL 2512 - Cell Biology (3)
- BIOL 3511 - Genetics (4: 3 lecture, 1 lab)
- BIOL 4514 - Molecular Biology (3)
- BIOL 4515 - Molecular Technology (3: 2 lecture, 1 lab)
- CHEM 1131 - General Chemistry I GE (5: 5 lecture, 0 lab)

- CHEM 1132 - General Chemistry II (5: 5 lecture, 0 lab)
- CHEM 3341 - Organic Chemistry I (4: 4 lecture, 0 lab)
- CHEM 3421 - Biochemistry (3)
- CS 1000 - Computers and Modern Society GE (3)
- CS 1020 - Introduction to Biomedical Informatics GE (3)
- CS 1100 - Computer Programming I (3)
- CS 1110 - Computer Programming II (3)
- CS 2300 - Data Structures (3)
- CS 3650 - Fundamentals of Bioinformatics I (3)
- CS 4300 - Algorithm Design and Analysis (3)
- CS 4600 - Database Theory and Applications (3)
- CS 4630 - Data Mining (3)
- CS 4650 - Fundamentals of Bioinformatics II (3)

- CS 2400 - Discrete Structures (3)
OR
- MATH 2410 - Discrete Mathematics (3)

- COMM 1000 - Public Speaking GE (3)
OR
- MKT 1401 - Professional Speaking and Presentation GE (3)

Computing & Statistics Option: 18-20 Semester Hours

Required Option Courses: 15 Semester Hours

- ACST 3311 - Introduction to Probability and Statistics (3)
- ACST 4321 - Regression Analysis (3)
- ACST 4645 - Senior Projects in Actuarial Science and Statistics (3) ¹⁰
- MATH 1040 - Introduction to the Mathematical Sciences (1)
- MATH 1151 - Calculus I GE (5)

Electives from the following: 3-5 Semester Hours

- ACST 4323 - Statistical Aspects of Experimental Design (3)
- CS 4000 - Special Problems in Computer Science (1-3)
- CS 3600 - Introduction to Data Visualization (3)
- CS 4620 - Big Data Analytics (3)
- CS 4710 - Introduction to Machine Learning (3)
- MATH 1152 - Calculus II (5)
- MATH 2153 - Calculus III (3)
- MATH 3710 - Linear Algebra (3)

- CS 4020 - Internship (1-3) (3)
OR
- ACST 4390 - Internship in Actuarial Science or Statistics (1-6) (3)

General Education Requirements: 27 Semester Hours

All students must complete a minimum of 42 credit hours in general education. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major:

- CS 1000 - Computers and Modern Society GE (3)
- CS 1020 - Introduction to Biomedical Informatics GE (3)
- MATH 1151 - Calculus I GE (5)
- CHEM 1131 - General Chemistry I GE (5: 5 lecture, 0 lab)

- COMM 1000 - Public Speaking GE (3)
OR
- MKT 1401 - Professional Speaking and Presentation GE (3)

Free Electives: 0-2 Semester Hours

Minimum Total: 120 Semester Hours

¹⁰ Competency 10 course

Computer Science Minor (449) (21 hours)

Minor for a Bachelor's Degree

UCM does not confer teacher certification for this minor.

Minor Requirements: 18 Semester Hours

- CS 1100 - Computer Programming I (3)
- CS 1110 - Computer Programming II (3)
- CS 2300 - Data Structures (3)

Electives from the Following: 9 Semester Hours

At least one course must be upper-level (3000/4000).

- CS 2200 - Introduction to Computer Organization (3)
- CS 2400 - Discrete Structures (3)
- CS 3100 - Programming Languages (3)
- CS 3110 - Applications Programming in C# and .NET (3)
- CS 3120 - Client Side Web Programming (3)
- CS 3200 - Computer Organization and Architecture (3)
- CS 3500 - C and UNIX Environment (3)
- CS 3800 - Applications Development with VB.NET (3)
- CS 3810 - Introduction to Game Design (3)
- CS 4110 - Mobile Applications Programming with Android (3)

- CS 4120 - Advanced Applications Programming in Java (3)
- CS 4130 - Server Side Web Programming (3)
- CS 4500 - Operating Systems (3)
- CS 4510 - Introduction to Distributed Systems (3)
- CS 4600 - Database Theory and Applications (3)
- CS 4610 - Introduction to Cloud Computing (3)
- CS 4620 - Big Data Analytics (3)
- CS 4630 - Data Mining (3)
- CS 4700 - Artificial Intelligence (3)
- CS 4830 - Game Development (3)
- CYBR 3130 - Secure Programming (3)
- CYBR 3300 - Introduction to Cryptography (3)
- CYBR 4820 - Introduction to Information Assurance (3)
- SE 4930 - Software Testing and Quality Assurance (3)

Note:

** Other elective options: Any valid Computer Science Major's electives, if the prerequisites are satisfied.

Computer Science, BS (43-281) - Computer Networking Option (CS08) (120 hours) [Also available as an accelerated program]

Major, Bachelor of Science Degree

Program Educational Objectives - Within a few years of graduation, a graduate with a Bachelor of Science degree in Computer Science will use the knowledge and skills obtained in the program to:

- Demonstrate the ability to create solutions to computing problems in industry, government or academia appropriate to their levels of professional experience.
- Be capable of gauging the impact of computing on society, and possess knowledge of the ethical, social and professional responsibilities of their work.
- Demonstrate effective oral and written communication skills and the ability to contribute to the benefit of teams.
- Continue to update their professional knowledge and skills to adapt to innovation and change, and be successful in their professional work and/or graduate studies.

Additional, graduates with a Bachelor of Science degree in Computer Science will demonstrate the following specific student outcomes:

- Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.
- Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.
- Communicate effectively in a variety of professional contexts.
- Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles.
- Function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline.

The B.S. in Computer Science - Computer Science Option is accredited by the Computing Accreditation Commission of ABET. <http://www.abet.org>

Major Requirements: 69 Semester Hours

Core: 42 Semester Hours

- CS 1000 - Computers and Modern Society GE (3)
- CS 1100 - Computer Programming I (3)
- CS 1110 - Computer Programming II (3)
- CS 2300 - Data Structures (3)
- CS 2400 - Discrete Structures (3)
- CS 3100 - Programming Languages (3)
- CS 3200 - Computer Organization and Architecture (3)
- CS 3500 - C and UNIX Environment (3)
- CS 4300 - Algorithm Design and Analysis (3)
- CS 4500 - Operating Systems (3)
- CS 4600 - Database Theory and Applications (3)
- SE 3910 - Software Engineering (3)

- CYBR 3130 - Secure Programming (3)
OR
- CYBR 4820 - Introduction to Information Assurance (3)
OR
- CYBR 4840 - Ethical Hacking (3)

- CS 4920 - Senior Project (3) ¹⁰
OR
- SE 4920 - Senior Project (3) ¹⁰

Computer Networking Option: 27 Semester Hours

Electives from the Following: 12-21 Semester Hours

- CS 3120 - Client Side Web Programming (3)
- CS 4130 - Server Side Web Programming (3)
- CS 4610 - Introduction to Cloud Computing (3)
- CS 3840 - Computer Networking (3)
- CYBR 4140 - Web Applications Security (3)
- NET 1060 - Introduction to Networks (3: 2 lecture, 1 lab)
- NET 1061 - Routers and Switching Essentials (3: 2 lecture, 1 lab)

Electives from the Following: 6-15 Semester Hours

- CS 1030 - Introduction to Computer Programming GE (3)
- CS 3110 - Applications Programming in C# and .NET (3)
- CS 3600 - Introduction to Data Visualization (3)

- CS 3800 - Applications Development with VB.NET (3)
- CS 3810 - Introduction to Game Design (3)
- CS 4000 - Special Problems in Computer Science (1-3) (3)
- CS 4020 - Internship (1-3) (3)
- CS 4110 - Mobile Applications Programming with Android (3)
- CS 4120 - Advanced Applications Programming in Java (3)
- CS 4510 - Introduction to Distributed Systems (3)
- CS 4620 - Big Data Analytics (3)
- CS 4630 - Data Mining (3)
- CS 4700 - Artificial Intelligence (3)
- CS 4810 - Computer Graphics (3)
- CS 4830 - Game Development (3)
- CYBR 1500 - Command Line Environments (3)
- CYBR 1800 - Introduction to Cybersecurity GE (3)
- CYBR 2500 - Computer Systems Administration (3)
- CYBR 3130 - Secure Programming (3) *
- CYBR 3300 - Introduction to Cryptography (3)
- CYBR 3510 - Systems Security (3)
- CYBR 3520 - Introduction to Cyber-Physical Systems Security (3)
- CYBR 3820 - Usable Privacy and Security (3)
- CYBR 3830 - Economics of Cybersecurity (3)
- CYBR 4840 - Ethical Hacking (3) *
- SE 3900 - Software Requirements Engineering (3)
- SE 4930 - Software Testing and Quality Assurance (3)
- SE 4940 - Software Design and Architecture (3)
- SE 4950 - Secure Software Engineering (3)
- SE 4960 - Software Project Management (3)

* Course can not be used as both an elective and core requirement.

General Education Requirements: 39-41 Semester Hours

All students must complete a minimum of 42 credit hours in general education. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major:

- ACST 1300 - Basic Statistics GE (3)
- CS 1000 - Computers and Modern Society GE (3)

- COMM 1000 - Public Speaking GE (3)
OR
- COMM 1050 - Fundamentals of Oral Communication Competency GE (3)
OR
- MKT 1401 - Professional Speaking and Presentation GE (3)

Additional Required General Education Courses for Computer Networking Option

- MATH 1111 - College Algebra GE (3)
OR
- MATH 1131 - Applied Calculus GE (3)
OR
- MATH 1150 - Pre-Calculus Mathematics GE (5)
OR
- MATH 1151 - Calculus I GE (5)

Free Electives: 10-12 Semester Hours

Minimum Total: 120 Semester Hours

¹⁰ Competency 10 course

Accelerated Program Notes:

The Accelerated model for this program is designed for the MS Computer Science.

UCM students having completed at least 9 hours of computer science courses above the 1000 level with a major GPA of at least 3.00 may consult with their faculty advisor and complete a school application to declare the accelerated BS/MS major in computer science. Prior to beginning the graduate portion of the program, students in the accelerated program will need to apply to the UCM Graduate School for formal admission to the Accelerated BS/MS program.

Accelerated student may be eligible to include the following courses as overlap between the undergraduate and graduate programs. They would be taken at the Graduate level (5XXX):

CS 4120 - Advanced Applications Programming in Java (3)

CS 4600 - Database Theory and Applications (3)

CYBR 4820 - Introduction to Information Assurance (3)

SE 4930 - Software Testing and Quality Assurance (3)

Computer Science, BS (43-281) - Computer Science Option (CS02) (120 hours) [Also available as an accelerated program]

Major, Bachelor of Science Degree

Program Educational Objectives - Within a few years of graduation, a graduate with a Bachelor of Science degree in Computer Science will use the knowledge and skills obtained in the program to:

- Demonstrate the ability to create solutions to computing problems in industry, government or academia appropriate to their levels of professional experience.
- Be capable of gauging the impact of computing on society, and possess knowledge of the ethical, social and professional responsibilities of their work.
- Demonstrate effective oral and written communication skills and the ability to contribute to the benefit of teams.

- Continue to update their professional knowledge and skills to adapt to innovation and change, and be successful in their professional work and/or graduate studies.

Additional, graduates with a Bachelor of Science degree in Computer Science will demonstrate the following specific student outcomes:

- Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.
- Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.
- Communicate effectively in a variety of professional contexts.
- Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles.
- Function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline.

In addition, students in Option 2 Computer Science will demonstrate the following extra student outcomes:

- Apply computer science theory and software development fundamentals to produce computing-based solutions.

The B.S. in Computer Science - Computer Science Option is accredited by the Computing Accreditation Commission of ABET. <http://www.abet.org>

Computer Science, BS (43-281) - Computer Science Option (CS02) (4 Year Guide)

Major Requirements: 70-72 Semester Hours

Core: 42 Semester Hours

- CS 1000 - Computers and Modern Society GE (3)
- CS 1100 - Computer Programming I (3)
- CS 1110 - Computer Programming II (3)
- CS 2300 - Data Structures (3)
- CS 2400 - Discrete Structures (3)
- CS 3100 - Programming Languages (3)
- CS 3200 - Computer Organization and Architecture (3)
- CS 3500 - C and UNIX Environment (3)
- CS 4300 - Algorithm Design and Analysis (3)
- CS 4500 - Operating Systems (3)
- CS 4600 - Database Theory and Applications (3)
- SE 3910 - Software Engineering (3)

- CYBR 3130 - Secure Programming (3)
OR
- CYBR 4820 - Introduction to Information Assurance (3)
OR
- CYBR 4840 - Ethical Hacking (3)

- CS 4920 - Senior Project (3) ¹⁰
OR
- SE 4920 - Senior Project (3) ¹⁰

Computer Science Option: 28-30 Semester Hours

- CS 3840 - Computer Networking (3)
- MATH 1152 - Calculus II (5)

Electives from the following: 3 Semester Hours

- ACST 2310 - Statistics and Data Analysis (3)
- ACST 3311 - Introduction to Probability and Statistics (3)
- MATH 2153 - Calculus III (3)
- MATH 3151 - Differential Equations (3)
- MATH 3710 - Linear Algebra (3)
- MATH 4450 - Introduction to Graph Theory (3)

Electives from the Following: 8-10 Semester Hours

- BIOL 1111 - Plant Biology (4: 3 lecture, 1 lab)
- BIOL 1112 - Animal Biology (4: 3 lecture, 1 lab)
- CHEM 1131 - General Chemistry I GE (5: 5 lecture, 0 lab)
- CHEM 1132 - General Chemistry II (5: 5 lecture, 0 lab)
- GEOS 1004 - Introduction to Geology GE (4: 3 lecture, 1 lab)
- GEOS 1114 - Weather and Climate GE (4: 3 lecture, 1 lab)
- GEOS 2100 - Engineering Geology (4: 3 lecture, 1 lab)
- GEOS 2200 - Historical Geology (4: 3 lecture, 1 lab)
- GEOS 4300 - Earth Resources (4: 3 lecture, 1 lab)

- PHYS 1101 - College Physics I GE (4: 4 lecture, 0 lab)
OR
- PHYS 2121 - University Physics I GE (5: 5 lecture, 0 lab)

- PHYS 1102 - College Physics II (4: 4 lecture, 0 lab)
OR
- PHYS 2122 - University Physics II (5: 5 lecture, 0 lab)

Electives from the Following: 9 Semester Hours

- CS 3110 - Applications Programming in C# and .NET (3)
- CS 3120 - Client Side Web Programming (3)
- CS 3600 - Introduction to Data Visualization (3)
- CS 3800 - Applications Development with VB.NET (3)
- CS 3810 - Introduction to Game Design (3)
- CS 4000 - Special Problems in Computer Science (1-3)
- CS 4020 - Internship (1-3) (3)
- CS 4110 - Mobile Applications Programming with Android (3)
- CS 4120 - Advanced Applications Programming in Java (3)
- CS 4130 - Server Side Web Programming (3)
- CS 4510 - Introduction to Distributed Systems (3)

- CS 4610 - Introduction to Cloud Computing (3)
- CS 4620 - Big Data Analytics (3)
- CS 4630 - Data Mining (3)
- CS 4700 - Artificial Intelligence (3)
- CS 4710 - Introduction to Machine Learning (3)
- CS 4810 - Computer Graphics (3)
- CYBR 3130 - Secure Programming (3) *
- CYBR 3300 - Introduction to Cryptography (3)
- CYBR 4140 - Web Applications Security (3)
- CYBR 4840 - Ethical Hacking (3) *
- SE 3900 - Software Requirements Engineering (3)
- SE 4930 - Software Testing and Quality Assurance (3)
- SE 4940 - Software Design and Architecture (3)
- SE 4950 - Secure Software Engineering (3)
- SE 4960 - Software Project Management (3)

* Course can not be used as both an elective and core requirement.

General Education Requirements: 34-41 Semester Hours

All students must complete a minimum of 42 credit hours in general education. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major:

- CS 1000 - Computers and Modern Society GE (3)
- COMM 1000 - Public Speaking GE (3)
OR
- COMM 1050 - Fundamentals of Oral Communication Competency GE (3)
OR
- MKT 1401 - Professional Speaking and Presentation GE (3)

Additional Required General Education Courses for Computer Science Option

- MATH 1151 - Calculus I GE (5)

Free Electives: 7-16 Semester Hours

Minimum Total: 120 Semester Hours

¹⁰ Competency 10 course

Accelerated Program Notes:

The Accelerated model for this program is designed for the MS Computer Science.

UCM students having completed at least 9 hours of computer science courses above the 1000 level with a major GPA of at least 3.00 may consult with their faculty advisor and complete a school application to declare the accelerated BS/MS major in computer science. Prior to beginning the graduate portion of the program, students in the accelerated program will need to apply to the UCM Graduate School for formal admission to the Accelerated BS/MS program.

Accelerated student may be eligible to include the following courses as overlap between the undergraduate and graduate programs. They would be taken at the Graduate level (5XXX):

CS 4120 - Advanced Applications Programming in Java (3)

CS 4600 - Database Theory and Applications (3)

CYBR 4820 - Introduction to Information Assurance (3)

SE 4930 - Software Testing and Quality Assurance (3)

Computer Science, BS (43-281) - Data Science Option (CS09) (120 hours) [Also available as an accelerated program]

Major, Bachelor of Science Degree

Program Educational Objectives - Within a few years of graduation, a graduate with a Bachelor of Science degree in Computer Science will use the knowledge and skills obtained in the program to:

- Demonstrate the ability to create solutions to computing problems in industry, government or academia appropriate to their levels of professional experience.
- Be capable of gauging the impact of computing on society, and possess knowledge of the ethical, social and professional responsibilities of their work.
- Demonstrate effective oral and written communication skills and the ability to contribute to the benefit of teams.
- Continue to update their professional knowledge and skills to adapt to innovation and change, and be successful in their professional work and/or graduate studies.

Additional, graduates with a Bachelor of Science degree in Computer Science will demonstrate the following specific student outcomes:

- Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.
- Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.
- Communicate effectively in a variety of professional contexts.
- Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles.
- Function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline.

The B.S. in Computer Science - Computer Science Option is accredited by the Computing Accreditation Commission of ABET. <http://www.abet.org>

Computer Science, BS (43-281) - Data Science Option (CS09) (4 Year Guide)

Major Requirements: 69 Semester Hours

Core: 42 Semester Hours

- CS 1000 - Computers and Modern Society GE (3)
- CS 1100 - Computer Programming I (3)
- CS 1110 - Computer Programming II (3)
- CS 2300 - Data Structures (3)
- CS 2400 - Discrete Structures (3)
- CS 3100 - Programming Languages (3)
- CS 3200 - Computer Organization and Architecture (3)
- CS 3500 - C and UNIX Environment (3)
- CS 4300 - Algorithm Design and Analysis (3)
- CS 4500 - Operating Systems (3)
- CS 4600 - Database Theory and Applications (3)
- SE 3910 - Software Engineering (3)

- CYBR 3130 - Secure Programming (3)
OR
- CYBR 4820 - Introduction to Information Assurance (3)
OR
- CYBR 4840 - Ethical Hacking (3)

- CS 4920 - Senior Project (3) ¹⁰
OR
- SE 4920 - Senior Project (3) ¹⁰

Data Science Option: 27 Semester Hours

- CS 3600 - Introduction to Data Visualization (3)
- CS 4620 - Big Data Analytics (3)
- MATH 3710 - Linear Algebra (3)

- ACST 2310 - Statistics and Data Analysis (3)
OR
- ACST 3311 - Introduction to Probability and Statistics (3)

- CS 4630 - Data Mining (3)
OR
- CS 4710 - Introduction to Machine Learning (3)

Electives from the following: 12 Semester Hours

- ACST 4321 - Regression Analysis (3)
- CS 3110 - Applications Programming in C# and .NET (3)
- CS 3120 - Client Side Web Programming (3)
- CS 3800 - Applications Development with VB.NET (3)
- CS 3810 - Introduction to Game Design (3)
- CS 4000 - Special Problems in Computer Science (1-3) (3)
- CS 4020 - Internship (1-3) (3)

- CS 4110 - Mobile Applications Programming with Android (3)
- CS 4120 - Advanced Applications Programming in Java (3)
- CS 4130 - Server Side Web Programming (3)
- CS 4510 - Introduction to Distributed Systems (3)
- CS 4610 - Introduction to Cloud Computing (3)
- CS 4700 - Artificial Intelligence (3)
- CS 3840 - Computer Networking (3)
- CS 4810 - Computer Graphics (3)
- CS 4830 - Game Development (3)
- CYBR 1500 - Command Line Environments (3)
- CYBR 2500 - Computer Systems Administration (3)
- CYBR 3130 - Secure Programming (3) *
- CYBR 3300 - Introduction to Cryptography (3)
- CYBR 4140 - Web Applications Security (3)
- CYBR 4840 - Ethical Hacking (3) *
- SE 3900 - Software Requirements Engineering (3)
- SE 4930 - Software Testing and Quality Assurance (3)
- SE 4940 - Software Design and Architecture (3)
- SE 4950 - Secure Software Engineering (3)
- SE 4960 - Software Project Management (3)

* Course can not be used as both an elective and core requirement.

General Education Requirements: 39-41 Semester Hours

All students must complete a minimum of 42 credit hours in general education. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major:

- CS 1000 - Computers and Modern Society GE (3)
- COMM 1000 - Public Speaking GE (3)
OR
- COMM 1050 - Fundamentals of Oral Communication Competency GE (3)
OR
- MKT 1401 - Professional Speaking and Presentation GE (3)

Additional Required General Education courses for Option 5

- CS 1030 - Introduction to Computer Programming GE (3)
- MATH 1131 - Applied Calculus GE (3)
OR
- MATH 1151 - Calculus I GE (5) (3-5)

Free Electives: 10-12 Semester Hours

Minimum Total: 120 Semester Hours

Accelerated Program Notes:

The Accelerated model for this program is designed for the MS Computer Science.

UCM students having completed at least 9 hours of computer science courses above the 1000 level with a major GPA of at least 3.00 may consult with their faculty advisor and complete a school application to declare the accelerated BS/MS major in computer science. Prior to beginning the graduate portion of the program, students in the accelerated program will need to apply to the UCM Graduate School for formal admission to the Accelerated BS/MS program.

Accelerated student may be eligible to include the following courses as overlap between the undergraduate and graduate programs. They would be taken at the Graduate level (5XXX):

CS 4120 - Advanced Applications Programming in Java (3)

CS 4600 - Database Theory and Applications (3)

CYBR 4820 - Introduction to Information Assurance (3)

SE 4930 - Software Testing and Quality Assurance (3)

Computer Science, BS (43-281) - Game Development Option (CS04) (120 hours) [Also available as an accelerated program]

Major, Bachelor of Science Degree

Program Educational Objectives - Within a few years of graduation, a graduate with a Bachelor of Science degree in Computer Science will use the knowledge and skills obtained in the program to:

- Demonstrate the ability to create solutions to computing problems in industry, government or academia appropriate to their levels of professional experience.
- Be capable of gauging the impact of computing on society, and possess knowledge of the ethical, social and professional responsibilities of their work.
- Demonstrate effective oral and written communication skills and the ability to contribute to the benefit of teams.
- Continue to update their professional knowledge and skills to adapt to innovation and change, and be successful in their professional work and/or graduate studies.

Additional, graduates with a Bachelor of Science degree in Computer Science will demonstrate the following specific student outcomes:

- Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.
- Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.
- Communicate effectively in a variety of professional contexts.
- Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles.
- Function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline.

The B.S. in Computer Science - Computer Science Option is accredited by the Computing Accreditation Commission of ABET. <http://www.abet.org>

Computer Science, BS (43-281) - Game Development Option (CS04) (4 Year Guide)

Major Requirements: 69 Semester Hours

Core: 42 Semester Hours

- CS 1000 - Computers and Modern Society GE (3)
- CS 1100 - Computer Programming I (3)
- CS 1110 - Computer Programming II (3)
- CS 2300 - Data Structures (3)
- CS 2400 - Discrete Structures (3)
- CS 3100 - Programming Languages (3)
- CS 3200 - Computer Organization and Architecture (3)
- CS 3500 - C and UNIX Environment (3)
- CS 4300 - Algorithm Design and Analysis (3)
- CS 4500 - Operating Systems (3)
- CS 4600 - Database Theory and Applications (3)
- SE 3910 - Software Engineering (3)

- CYBR 3130 - Secure Programming (3)
OR
- CYBR 4820 - Introduction to Information Assurance (3)
OR
- CYBR 4840 - Ethical Hacking (3)

- CS 4920 - Senior Project (3) ¹⁰
OR
- SE 4920 - Senior Project (3) ¹⁰

Game Development Option: 27 Semester Hours

- CS 1810 - Video Game Theory and Analysis (3)
- CS 2820 - Game Programming (3)
- CS 3810 - Introduction to Game Design (3)
- CS 4830 - Game Development (3)

Electives from the Following: 15 Semester Hours

- CS 1030 - Introduction to Computer Programming GE (3)
- CS 3110 - Applications Programming in C# and .NET (3)
- CS 3120 - Client Side Web Programming (3)
- CS 3600 - Introduction to Data Visualization (3)
- CS 3800 - Applications Development with VB.NET (3)
- CS 4000 - Special Problems in Computer Science (1-3) (3)

- CS 4020 - Internship (1-3) (3)
- CS 4110 - Mobile Applications Programming with Android (3)
- CS 4120 - Advanced Applications Programming in Java (3)
- CS 4130 - Server Side Web Programming (3)
- CS 4510 - Introduction to Distributed Systems (3)
- CS 4610 - Introduction to Cloud Computing (3)
- CS 4620 - Big Data Analytics (3)
- CS 4630 - Data Mining (3)
- CS 4700 - Artificial Intelligence (3)
- CS 3840 - Computer Networking (3)
- CS 4810 - Computer Graphics (3)
- CYBR 1500 - Command Line Environments (3)
- CYBR 2500 - Computer Systems Administration (3)
- CYBR 3130 - Secure Programming (3) *
- CYBR 3300 - Introduction to Cryptography (3)
- CYBR 4840 - Ethical Hacking (3) *
- CYBR 4140 - Web Applications Security (3)
- SE 3900 - Software Requirements Engineering (3)
- SE 4930 - Software Testing and Quality Assurance (3)
- SE 4940 - Software Design and Architecture (3)
- SE 4950 - Secure Software Engineering (3)
- SE 4960 - Software Project Management (3)

* Course can not be used as both an elective and core requirement.

General Education Requirements: 39-41 Semester Hours

All students must complete a minimum of 42 credit hours in general education. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major:

- ACST 1300 - Basic Statistics GE (3)
- CS 1000 - Computers and Modern Society GE (3)
- COMM 1000 - Public Speaking GE (3)
OR
- COMM 1050 - Fundamentals of Oral Communication Competency GE (3)
OR
- MKT 1401 - Professional Speaking and Presentation GE (3)

Additional Required General Education Courses for Game Development Option

- CS 1030 - Introduction to Computer Programming GE (3)
OR
- MATH 1111 - College Algebra GE (3)
OR
- MATH 1131 - Applied Calculus GE (3)

- OR
- MATH 1150 - Pre-Calculus Mathematics GE (5)
- OR
- MATH 1151 - Calculus I GE (5)

Free Electives: 10-12 Semester Hours

Minimum Total: 120 Semester Hours

¹⁰ Competency 10 course

Accelerated Program Notes:

The Accelerated model for this program is designed for the MS Computer Science.

UCM students having completed at least 9 hours of computer science courses above the 1000 level with a major GPA of at least 3.00 may consult with their faculty advisor and complete a school application to declare the accelerated BS/MS major in computer science. Prior to beginning the graduate portion of the program, students in the accelerated program will need to apply to the UCM Graduate School for formal admission to the Accelerated BS/MS program.

Accelerated student may be eligible to include the following courses as overlap between the undergraduate and graduate programs. They would be taken at the Graduate level (5XXX):

CS 4120 - Advanced Applications Programming in Java (3)

CS 4600 - Database Theory and Applications (3)

CYBR 4820 - Introduction to Information Assurance (3)

SE 4930 - Software Testing and Quality Assurance (3)

Computer Science, BS (43-281) - Software Development Option (CS07) (120 hours) [Also available as an accelerated program]

Major, Bachelor of Science Degree

Program Educational Objectives - Within a few years of graduation, a graduate with a Bachelor of Science degree in Computer Science will use the knowledge and skills obtained in the program to:

- Demonstrate the ability to create solutions to computing problems in industry, government or academia appropriate to their levels of professional experience.
- Be capable of gauging the impact of computing on society, and possess knowledge of the ethical, social and professional responsibilities of their work.
- Demonstrate effective oral and written communication skills and the ability to contribute to the benefit of teams.
- Continue to update their professional knowledge and skills to adapt to innovation and change, and be successful in their professional work and/or graduate studies.

Additional, graduates with a Bachelor of Science degree in Computer Science will demonstrate the following specific student outcomes:

- Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.
- Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.
- Communicate effectively in a variety of professional contexts.
- Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles.
- Function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline.

The B.S. in Computer Science - Computer Science Option is accredited by the Computing Accreditation Commission of ABET. <http://www.abet.org>

Computer Science, BS (43-281) - Software Development Option (CS07) (4 Year Guide)

Computer Science, BS (43-281) (Missouri Innovation Campus (MIC), Software Development Option) (4 Year Guide)

Major Requirements: 69 Semester Hours

Core: 42 Semester Hours

- CS 1000 - Computers and Modern Society GE (3)
- CS 1100 - Computer Programming I (3)
- CS 1110 - Computer Programming II (3)
- CS 2300 - Data Structures (3)
- CS 2400 - Discrete Structures (3)
- CS 3100 - Programming Languages (3)
- CS 3200 - Computer Organization and Architecture (3)
- CS 3500 - C and UNIX Environment (3)
- CS 4300 - Algorithm Design and Analysis (3)
- CS 4500 - Operating Systems (3)
- CS 4600 - Database Theory and Applications (3)
- SE 3910 - Software Engineering (3)

- CYBR 3130 - Secure Programming (3)
OR
- CYBR 4820 - Introduction to Information Assurance (3)
OR
- CYBR 4840 - Ethical Hacking (3)

- CS 4920 - Senior Project (3) ¹⁰
OR
- SE 4920 - Senior Project (3) ¹⁰

Software Development Option: 27 Semester Hours

Electives from the Following: 12-24 Semester Hours

- CS 3110 - Applications Programming in C# and .NET (3)
- CS 4120 - Advanced Applications Programming in Java (3)
- CYBR 3130 - Secure Programming (3) *
- SE 3900 - Software Requirements Engineering (3)
- SE 4930 - Software Testing and Quality Assurance (3)
- SE 4940 - Software Design and Architecture (3)
- SE 4950 - Secure Software Engineering (3)
- SE 4960 - Software Project Management (3)

Electives from the Following: 3-15 Semester Hours

- CS 1030 - Introduction to Computer Programming GE (3)
- CS 3120 - Client Side Web Programming (3)
- CS 3600 - Introduction to Data Visualization (3)
- CS 3800 - Applications Development with VB.NET (3)
- CS 3810 - Introduction to Game Design (3)
- CS 3840 - Computer Networking (3)
- CS 4000 - Special Problems in Computer Science (1-3) (3)
- CS 4020 - Internship (1-3) (3)
- CS 4110 - Mobile Applications Programming with Android (3)
- CS 4130 - Server Side Web Programming (3)
- CS 4510 - Introduction to Distributed Systems (3)
- CS 4610 - Introduction to Cloud Computing (3)
- CS 4620 - Big Data Analytics (3)
- CS 4630 - Data Mining (3)
- CS 4700 - Artificial Intelligence (3)
- CS 4810 - Computer Graphics (3)
- CS 4830 - Game Development (3)
- CYBR 1500 - Command Line Environments (3)
- CYBR 1800 - Introduction to Cybersecurity GE (3)
- CYBR 2500 - Computer Systems Administration (3)
- CYBR 3300 - Introduction to Cryptography (3)
- CYBR 3510 - Systems Security (3)
- CYBR 3520 - Introduction to Cyber-Physical Systems Security (3)
- CYBR 3820 - Usable Privacy and Security (3)
- CYBR 3830 - Economics of Cybersecurity (3)
- CYBR 4140 - Web Applications Security (3)
- CYBR 4840 - Ethical Hacking (3) *

* Course can not be used as both an elective and core requirement.

General Education Requirements: 39-41 Semester Hours

All students must complete a minimum of 42 credit hours in general education. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major:

- ACST 1300 - Basic Statistics GE (3)

- CS 1000 - Computers and Modern Society GE (3)
- COMM 1000 - Public Speaking GE (3)
OR
- COMM 1050 - Fundamentals of Oral Communication Competency GE (3)
OR
- MKT 1401 - Professional Speaking and Presentation GE (3)

Additional Required General Education Courses for Software Development Option

- CS 1030 - Introduction to Computer Programming GE (3)
OR
- MATH 1111 - College Algebra GE (3)
OR
- MATH 1131 - Applied Calculus GE (3)
OR
- MATH 1150 - Pre-Calculus Mathematics GE (5)
OR
- MATH 1151 - Calculus I GE (5)

Free Electives: 10-12 Semester Hours

Minimum Total: 120 Semester Hours

¹⁰ Competency 10 course

Accelerated Program Notes:

The Accelerated model for this program is designed for the MS Computer Science.

UCM students having completed at least 9 hours of computer science courses above the 1000 level with a major GPA of at least 3.00 may consult with their faculty advisor and complete a school application to declare the accelerated BS/MS major in computer science. Prior to beginning the graduate portion of the program, students in the accelerated program will need to apply to the UCM Graduate School for formal admission to the Accelerated BS/MS program.

Accelerated student may be eligible to include the following courses as overlap between the undergraduate and graduate programs. They would be taken at the Graduate level (5XXX):

CS 4120 - Advanced Applications Programming in Java (3)

CS 4600 - Database Theory and Applications (3)

CYBR 4820 - Introduction to Information Assurance (3)

SE 4930 - Software Testing and Quality Assurance (3)

Cybersecurity Minor (634) (21 hours)

Minor for a Bachelor's Degree

UCM does not confer teacher certification for this minor.

Minor Requirements: 21 Semester Hours

- CYBR 1800 - Introduction to Cybersecurity GE (3) *
- CYBR 4840 - Ethical Hacking (3)

Choose one of the following areas:

Cyber Operations

- CYBR 1500 - Command Line Environments (3)
- CYBR 2500 - Computer Systems Administration (3)
- CYBR 4850 - Computer and Network Forensics (3)
- NET 1060 - Introduction to Networks (3: 2 lecture, 1 lab)
- NET 1061 - Routers and Switching Essentials (3: 2 lecture, 1 lab)

Secure Software Development

- CS 1100 - Computer Programming I (3)
- CS 1110 - Computer Programming II (3)
- CS 2300 - Data Structures (3)
- SE 3910 - Software Engineering (3)
- SE 4950 - Secure Software Engineering (3)

Note:

* CS 1000 may be used to fulfill the requirements for CYBR 1800. Students need to consult Cybersecurity Program Coordinator for approval.

Cybersecurity, BS (43-892) (120 hours) [Also available as an accelerated program]

Major, Bachelor of Science Degree

Program Educational Objectives - Within a few years of graduation, a graduate with a Bachelor of Science degree in Cybersecurity will use the knowledge and skills obtained in the program to:

- Demonstrate the ability to create solutions to cybersecurity problems in industry, government or academia appropriate to their levels of professional experience.
- Be capable of gauging the impact of cybersecurity risks for an organization or on society, and possess knowledge of the ethical, social and professional responsibilities of their work.
- Have effective oral and written communication skills and demonstrate the ability to contribute effectively to the benefit of teams.
- Continue to update their professional knowledge and skills to adapt to innovation and change, and be successful in their professional work and/or graduate studies.

Additionally, graduates with a Bachelor of Science degree in Cybersecurity will demonstrate the following specific student outcomes:

- Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.
 - Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.
 - Communicate effectively in a variety of professional contexts.
 - Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles.
 - Function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline.
 - Apply security principles and practices to maintain operations in the presence of risks and threats.
- Cybersecurity, BS (43-892) (4 Year Guide)

Cybersecurity, BS (43-892) (Missouri Innovation Campus (MIC)) (4 Year Guide)

Major Requirements: 61-69 Semester Hours

Core: 42 Semester Hours

- CYBR 1500 - Command Line Environments (3)
- CYBR 1800 - Introduction to Cybersecurity GE (3)
- CYBR 2500 - Computer Systems Administration (3)
- CYBR 3130 - Secure Programming (3)
- CYBR 3300 - Introduction to Cryptography (3)
- CYBR 3510 - Systems Security (3)
- CYBR 3520 - Introduction to Cyber-Physical Systems Security (3)
- CYBR 3820 - Usable Privacy and Security (3)
- CYBR 4820 - Introduction to Information Assurance (3) ¹⁰
- CYBR 4840 - Ethical Hacking (3)
- CYBR 4850 - Computer and Network Forensics (3)
- CS 2400 - Discrete Structures (3)
- CS 3840 - Computer Networking (3)
- ACST 2310 - Statistics and Data Analysis (3)

Choose one of the following areas: 13-15 Semester Hours

Cyber Operations - 13 Sem. Hours

- NET 1060 - Introduction to Networks (3: 2 lecture, 1 lab)
- NET 1061 - Routers and Switching Essentials (3: 2 lecture, 1 lab)
- NET 2060 - Scaling Networks (3: 2 lecture, 1 lab)
- OR
- CJ 3450 - Computer Crime Investigation (3)
- NET 3068 - Network Security I (4: 3 lecture, 1 lab)

Secure Software Development - 15 Sem. Hours

- CS 1100 - Computer Programming I (3)
- CS 1110 - Computer Programming II (3)

- CS 2300 - Data Structures (3)
- SE 3910 - Software Engineering (3)
- SE 4950 - Secure Software Engineering (3)

Electives from the following: 6-12 Semester Hours

- CS 1100 - Computer Programming I (3)
- CS 1110 - Computer Programming II (3)
- CS 2300 - Data Structures (3)
- CS 3110 - Applications Programming in C# and .NET (3)
- CS 3120 - Client Side Web Programming (3)
- CS 3500 - C and UNIX Environment (3)
- CS 3800 - Applications Development with VB.NET (3)
- CS 4020 - Internship (1-3) (3)
- CS 4110 - Mobile Applications Programming with Android (3)
- CS 4120 - Advanced Applications Programming in Java (3)
- CS 4130 - Server Side Web Programming (3)
- CS 4300 - Algorithm Design and Analysis (3)
- CS 4500 - Operating Systems (3)
- CS 4510 - Introduction to Distributed Systems (3)
- CS 4600 - Database Theory and Applications (3)
- CS 4610 - Introduction to Cloud Computing (3)
- CS 4620 - Big Data Analytics (3)
- CS 4700 - Artificial Intelligence (3)
- CYBR 1500 - Command Line Environments (3)
- CYBR 2500 - Computer Systems Administration (3)
- CYBR 3830 - Economics of Cybersecurity (3)
- CYBR 4010 - Special Topics in Cybersecurity (3)
- CYBR 4140 - Web Applications Security (3)
- CYBR 4610 - Cloud Security (3)
- SE 3910 - Software Engineering (3)
- SE 4950 - Secure Software Engineering (3)
- SE 4960 - Software Project Management (3)
- CJ 3450 - Computer Crime Investigation (3)
- NET 1060 - Introduction to Networks (3: 2 lecture, 1 lab)
- NET 1061 - Routers and Switching Essentials (3: 2 lecture, 1 lab)
- NET 2060 - Scaling Networks (3: 2 lecture, 1 lab)
- NET 2061 - Connecting Networks (3: 2 lecture, 1 lab)
- NET 3068 - Network Security I (4: 3 lecture, 1 lab)
- COMM 3327 - Improving Interviewing Skills (3)
- OR
- MGT 3325 - Business Communication (3)

General Education Requirements: 42-44 Semester Hours

All students must complete a minimum of 42 credit hours in general education. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major:

- MATH 1111 - College Algebra GE (3)
OR
- MATH 1131 - Applied Calculus GE (3)
OR
- MATH 1150 - Pre-Calculus Mathematics GE (5)
OR
- MATH 1151 - Calculus I GE (5)

- CYBR 1800 - Introduction to Cybersecurity GE (3)

- COMM 1000 - Public Speaking GE (3)
OR
- COMM 1050 - Fundamentals of Oral Communication Competency GE (3)
OR
- MKT 1401 - Professional Speaking and Presentation GE (3)

- CS 1030 - Introduction to Computer Programming GE (3)

Free Electives: 10-20 Semester Hours

Minimum Total: 120 Semester Hours

¹⁰ Competency 10 course

Accelerated Program Notes:

The Accelerated model for this program is designed for the MS Cybersecurity & Information Assurance.

UCM students having completed at least 9 hours of cybersecurity courses above the 1000 level with a major GPA of at least 3.00 may consult with their faculty advisor and complete a school application to declare the accelerated BS/MS major in cybersecurity. Prior to beginning the graduate portion of the program, students in the accelerated program will need to apply to the UCM Graduate School for formal admission to the Accelerated BS/MS program.

Accelerated student may be eligible to include the following courses as overlap between the undergraduate and graduate programs. They would be taken at the Graduate level (5XXX):

CYBR 4140 - Web Applications Security (3)

CYBR 4610 - Cloud Security (3)

CYBR 4820 - Introduction to Information Assurance (3)

CYBR 4840 - Ethical Hacking (3)

Mathematics Minor (482) (25 hours)

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.

Minor Requirements: 25 Semester Hours

- MATH 1151 - Calculus I GE (5)
- MATH 1152 - Calculus II (5)
- MATH 2410 - Discrete Mathematics (3)
- MATH 3710 - Linear Algebra (3)

Electives from the Following or as Approved by Department: 9 Semester Hours

- ACST 3311 - Introduction to Probability and Statistics (3)
- MATH 2153 - Calculus III (3)
- MATH 3151 - Differential Equations (3)
- MATH 4710 - Algebraic Structures (3)

Mathematics Minor (BSE) (480) (22 hours)

Minor, Bachelor of Science in Education Degree

Certification to teach mathematics in grades 5-9 with a middle school-junior high school major.

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 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.

Minor Requirements: 22 Semester Hours

- MATH 2821 - Elements of Algebra (3) *
- MATH 2822 - Elements of Geometry (3) *
- MATH 2824 - Infinite Processes I (3)
- MATH 2825 - Infinite Processes II (2)
- MATH 3800 - Teaching and Learning Numbers and Operations (3)
- MATH 3802 - Concepts and Methods in Middle School Mathematics (3)
- MATH 3840 - Strategies in Teaching Middle School Mathematics (3)

- MATH 4851 - Probability and Statistics for Middle/High School Mathematics (3)

Note:

* This course has a prerequisite not listed in the program; click on the course number for additional requirements.

Mathematics, BS (43-454) (120 hours) [Also available as an accelerated program]

Major, Bachelor of Science Degree

A graduate with a Bachelor of Science degree in Mathematics will use the knowledge and skills obtained in the program to:

- Communicate mathematical ideas clearly and coherently.
- Apply content knowledge to solve complex problems.
- Construct clear and concise mathematical proofs and other logical arguments.

Mathematics Major, BS (43-454) (4 Year Guide)

Major Requirements: 53 Semester Hours

- MATH 1040 - Introduction to the Mathematical Sciences (1)
- MATH 1151 - Calculus I GE (5)
- MATH 1152 - Calculus II (5)
- MATH 2153 - Calculus III (3)
- MATH 2410 - Discrete Mathematics (3)
- MATH 3151 - Differential Equations (3)
- MATH 3710 - Linear Algebra (3)
- MATH 4150 - Advanced Calculus I (3)
- MATH 4233 - The Scientific, Historical, and Sociological Impact of Mathematics (3) ¹⁰
- MATH 4710 - Algebraic Structures (3)
- MATH 4711 - Modern Algebra I (3)
- ACST 2310 - Statistics and Data Analysis (3)
- ACST 3311 - Introduction to Probability and Statistics (3)
- CS 1100 - Computer Programming I (3)

Electives from the Following: 9 Semester Hours

- MATH 2221 - Foundations of Geometry (3)
- MATH 4171 - Functions of a Complex Variable (3)
- MATH 4400 - Combinatorics (3)
- MATH 4450 - Introduction to Graph Theory (3)
- MATH 4741 - Introduction to the Theory of Numbers (3)
- MATH 4910 - Special Problems in Mathematics (1-3)
- MATH 4912 - Internship in Mathematical Sciences (1-8)
- ACST 4312 - Probability Models (3)

- ACST 4321 - Regression Analysis (3)
- ACST 4510 - Mathematics of Finance (3)
- CS 1110 - Computer Programming II (3)
- CS 3600 - Introduction to Data Visualization (3)
- CS 3800 - Applications Development with VB.NET (3)

General Education Requirements: 39 Semester Hours

All students must complete a minimum of 42 credit hours in general education. Some majors require additional hours due to required coursework. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major:

- MATH 1151 - Calculus I GE (5)

Free Electives: 29 Semester Hours

Minimum Total: 120 Semester Hours

¹⁰ Competency 10 course

Accelerated Program Notes:

The Accelerated model for this program is designed for the MS Mathematics - Mathematics Option.

UCM students who are interested should meet with the Mathematics Program Coordinator no later than fall of the sophomore year.

Accelerated student may be eligible to include the following courses as overlap between the undergraduate and graduate programs. They would be taken at the Graduate level (5XXX):

MATH 4150 - Advanced Calculus I (3)

MATH 4171 - Functions of a Complex Variable (3)

MATH 4450 - Introduction to Graph Theory (3)

MATH 4711 - Modern Algebra I (3)

Software Engineering, BS (43-646)

Program Educational Objectives - Graduates with a Bachelor of Science degree in Software Engineering will use the knowledge and skills obtained in the program to:

- Demonstrate the ability to create quality software in industry, government or academia appropriate to their levels of professional experience.
- Be capable of gauging the impact of computing and engineering on society, and possess knowledge of the ethical, social and professional responsibilities of their work.
- Have effective oral and written communication skills and demonstrate the ability to contribute effectively to the benefit of teams.

- Continue to update their professional knowledge and skills to adapt to innovation and change, and be successful in their professional work and/or graduate studies.

Additionally, graduates with a Bachelor of Science degree in Software Engineering will demonstrate the following specific student outcomes:

- Identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
- Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
- Communicate effectively with a range of audiences.
- Recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.
- Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
- Develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.
- Acquire and apply new knowledge as needed, using appropriate learning strategies.

Software Engineering, BS (43-646) (4 Year Guide)

Major Requirements: 70 Semester Hours

Core: 50 Semester Hours

- CS 1100 - Computer Programming I (3)
- CS 1110 - Computer Programming II (3)
- CS 2300 - Data Structures (3)
- CS 2400 - Discrete Structures (3)
- CS 4300 - Algorithm Design and Analysis (3)
- CS 4600 - Database Theory and Applications (3)
- CYBR 3130 - Secure Programming (3)
- SE 3900 - Software Requirements Engineering (3)
- SE 3910 - Software Engineering (3)
- SE 4930 - Software Testing and Quality Assurance (3)
- SE 4940 - Software Design and Architecture (3)
- SE 4950 - Secure Software Engineering (3)
- SE 4960 - Software Project Management (3)
- ACST 3311 - Introduction to Probability and Statistics (3)
- MATH 1152 - Calculus II (5)
- CS 4920 - Senior Project (3) ¹⁰
- **OR**
- SE 4920 - Senior Project (3) ¹⁰

Electives from the Following: 6 Semester Hours

- CS 3100 - Programming Languages (3)

- CS 3110 - Applications Programming in C# and .NET (3)
- CS 3120 - Client Side Web Programming (3)
- CS 3200 - Computer Organization and Architecture (3)
- CS 3500 - C and UNIX Environment (3)
- CS 3800 - Applications Development with VB.NET (3)
- CS 3810 - Introduction to Game Design (3)
- CS 4000 - Special Problems in Computer Science (1-3)
- CS 4020 - Internship (1-3)
- CS 4110 - Mobile Applications Programming with Android (3)
- CS 4120 - Advanced Applications Programming in Java (3)
- CS 4130 - Server Side Web Programming (3)
- CYBR 4140 - Web Applications Security (3)
- CS 4500 - Operating Systems (3)
- CS 4510 - Introduction to Distributed Systems (3)
- CS 4610 - Introduction to Cloud Computing (3)
- CS 4620 - Big Data Analytics (3)
- CS 4630 - Data Mining (3)
- CS 4700 - Artificial Intelligence (3)
- CS 4710 - Introduction to Machine Learning (3)
- CS 3840 - Computer Networking (3)
- CS 4810 - Computer Graphics (3)
- CYBR 3300 - Introduction to Cryptography (3)
- CYBR 4820 - Introduction to Information Assurance (3)

Math and Science Electives: 14 Semester Hours

Minimum 8 credit hours science, from the following list, must be selected in the electives. Total math and science, from the following list, combined must be at least 14 credit hours.

Electives from the following: 8-14 Semester Hours

- BIOL 1111 - Plant Biology (4: 3 lecture, 1 lab)
- BIOL 1112 - Animal Biology (4: 3 lecture, 1 lab)
- CHEM 1131 - General Chemistry I GE (5: 5 lecture, 0 lab)
- CHEM 1132 - General Chemistry II (5: 5 lecture, 0 lab)
- GEOS 1004 - Introduction to Geology GE (4: 3 lecture, 1 lab)
- GEOS 1114 - Weather and Climate GE (4: 3 lecture, 1 lab)
- GEOS 2100 - Engineering Geology (4: 3 lecture, 1 lab)
- GEOS 2200 - Historical Geology (4: 3 lecture, 1 lab)
- GEOS 4300 - Earth Resources (4: 3 lecture, 1 lab)

- PHYS 1101 - College Physics I GE (4: 4 lecture, 0 lab)
OR
- PHYS 2121 - University Physics I GE (5: 5 lecture, 0 lab)

- PHYS 1102 - College Physics II (4: 4 lecture, 0 lab)
OR
- PHYS 2122 - University Physics II (5: 5 lecture, 0 lab)

Electives from the following: 0-6 Semester Hours

- MATH 2153 - Calculus III (3)
- MATH 3151 - Differential Equations (3)
- MATH 3710 - Linear Algebra (3)
- MATH 4450 - Introduction to Graph Theory (3)

Electives from the following: 0-3 Semester Hours

- BIOL 1110 - Principles of Biology (3)
- BIOL 2010 - Human Biology GE (3)
- BIOL 2510 - Basic Genetics GE (3)
- BIOL 4102 - Evolution (3)
- GEOS 3010 - Environmental Geology (3)
- GEOS 1112 - Astronomy (3)

General Education Requirements: 37-44 Semester Hours

All students must complete a minimum of 42 credit hours in general education. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major:

- CS 1000 - Computers and Modern Society GE (3)
- MATH 1151 - Calculus I GE (5)

- COMM 1000 - Public Speaking GE (3)
OR
- COMM 1050 - Fundamentals of Oral Communication Competency GE (3)
OR
- MKT 1401 - Professional Speaking and Presentation GE (3)

Free Electives: 6-13 Semester Hours

Minimum Total: 120 Semester Hours

¹⁰ Competency 10 course

Statistics Minor (632) (18-20 hours)

Minor for a Bachelor's Degree

UCM does not confer teacher certification for this minor. This minor is not available to students in the Actuarial Science and Statistics major. Recommended for majors in business, economics, physical science, psychological science, social sciences, biology, and related fields.

Minor Requirements: 18-20 Semester Hours

- ACST 2310 - Statistics and Data Analysis (3)
- ACST 3311 - Introduction to Probability and Statistics (3)
- ACST 4321 - Regression Analysis (3)

- MATH 1131 - Applied Calculus GE (3)
OR
- MATH 1151 - Calculus I GE (5)

Electives from the Following: 6 Semester Hours

- ACST 4312 - Probability Models (3) *
- ACST 4322 - Time Series Models and Analysis (3)
- ACST 4323 - Statistical Aspects of Experimental Design (3)
- ACST 4331 - SAS Programming for Statistical Analysis (3)
- ACST 4530 - Statistical Modeling (3)

Only 1 course may be selected from the following: 0-3 Semester Hours

- ACST 1300 - Basic Statistics GE (3)
- BIOL 4013 - Introduction to Experimental Design and Analysis (3) *
- FIN 3801 - Business Statistics II (3) *
- INDM 4280 - Industrial Statistics (3)
- PSY 3030 - Introduction to Statistics for Psychology (3)

Note:

* These courses require additional prerequisites not listed in the minor program. See additional information in the course descriptions.

School of Geoscience, Physics, and Safety

School of Geoscience, Physics, and Safety

Humphreys 225

660-543-4626

Earth Science Minor (477) (20 hours)

Minor for a Bachelor's Degree

UCM does not confer teacher certification for this minor.

Minor Requirements: 20 Semester Hours

- GEOS 1004 - Introduction to Geology GE (4: 3 lecture, 1 lab)
- GEOS 2200 - Historical Geology (4: 3 lecture, 1 lab)
- Electives in earth science (12) *

Note:

* Must include at least one upper-level (3000/4000) course to meet graduation requirements.

Environmental, Safety & Risk Management, BS (43-674) (120 hours)

Major, Bachelor of Science Degree

Online BS degree completion program specifically designed for transfer students. Designed to assist individuals with associates degrees earn a BS degree in a highly competitive career field. Designed to maximize use of credit hours earned in an associate's degree to accelerate time to graduation and reduce cost.

A graduate with a Bachelor of Science degree in Environmental, Safety & Risk Management will use the knowledge and skills obtained in the program to:

- Collect, analyze and interpret relevant data to reduce the risk profile of an organization.
- Interpret OSH performance measurements for effectiveness and continual improvement.
- Demonstrate the development and delivery of effective training by employing various methods.
- Communicate the risks and explain the business importance of responsible business practices to interested parties.
- Apply appropriate risk management techniques.
- Integrate the concepts of risk identification, risk analysis, risk evaluation, risk treatment, and responsible business practices.
- Integrate financial and non-financial justifications into the development of policies, procedures, and systems that align with organizational strategic plans.
- Gather and apply credible information & technology to communicate, manage knowledge, prevent or mitigate risk and support decision-making.
- Explain the role and importance of leadership in a risk management context.
- Describe and distinguish legal, moral, and sustainability principles relevant to OSH profession.

Core Requirements: 39 Semester Hours

- SAFE 3070 - Safety Leadership (3)
- SAFE 3120 - Industrial Hygiene (3)
- SAFE 3430 - Industrial Hazard Control (3)
- SAFE 4000 - Ergonomics in Safety and Health (3)
- SAFE 4005 - Environmental, Health, and Safety Risk Assessment (3)
- SAFE 4035 - Occupational Risk Management (3)
- SAFE 4055 - Safety Capstone Experience (3) ¹⁰
- SAFE 4440 - Environmental Air Quality and Pollution Prevention (3)
- SAFE 4445 - Water Quality and Waste Water Management (3)
- SAFE 4450 - Environmental Remediation (3)

- SAFE 4560 - Systems Safety (3)
- SAFE 4940 - Statistical Analysis for Risk Management (3)
- SAFE 4425 - Safety and Health Legislation and Standards (3)
OR
- SAFE 4435 - Environmental Compliance (3)

Approved Electives: 30-39 Semester Hours

- SAFE 3005 - Introduction to Environmental, Health, and Safety (3) *SAFE 3005 is a required course for all non-safety associate's degrees.*
- Additional approved science, math, SAFE coursework (0-15)
- Approved transfer courses from AA or AAS degree
 - Up to 21 hours of courses unrelated to EHS, the equivalent of a minor (0-21)
 - OR**
 - Up to 30 hours of approved EHS and EHS related courses (0-30)
- Approved OSHA training electives. Up to 9 hours in this category, other requirements apply (0-9)
- Approved Work Experience/certification. Up to 15 hours in this category demonstrated by the following BCSP certifications (0-15):
 - ASP eligibility (3)
 - ASP in good standing (9)
 - OSHT or CHST in good standing (only 1) (6)
 - CSP in good standing (15)

General Education Requirements: 42 Semester Hours

All students must complete a minimum of 42 credit hours in general education. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major:

- CTE 3060 - Technical Writing GE (3)
- MATH 1111 - College Algebra GE (3)
- CHEM 1103 - Introduction to the Sciences: Chemistry GE (3)
OR
- PHYS 1103 - Introduction to the Sciences: Physics GE (3)
- CHEM 1104 - Introduction to the Sciences: Chemistry GE (4: 4 lecture, 0 lab)
OR
- PHYS 1104 - Introduction to the Sciences: Physics GE (4: 4 lecture, 0 lab)

Note: Students must have a science with a lab to meet general education requirements. Student must have a science prefix course for both CHEM and PHYS. Students can select CHEM 1103 OR CHEM 1104 ; and PHYS 1103 OR PHYS 1104. Students are required to earn a C or better in all of the required general education courses.

Free Electives: 0-9 Semester Hours

Minimum Total: 120 Semester Hours

¹⁰ Competency 10 course

Geographic Information Systems Minor (857) (21 hours)

Minor for a Bachelor's Degree

UCM does not confer teacher certification for this minor.

Minor Requirements: 21 Semester Hours

- GEOG 2212 - World Geography GE (3)
- GEOS 2281 - Map Interpretation (2)
- GEOG 3270 - Research Methods in Geography (3)
- GEOS 4201 - Cartography (3)
- GEOS 4220 - Geographic Information Systems I (3)
- GEOS 4221 - Geographic Information Systems II (3)
- GEOS 4210 - Remote Sensing and Image Interpretation (3)

Geography Minor (431) (21 hours)

Minor for a Bachelor's Degree

UCM does not confer teacher certification for this minor.

Minor Requirements: 21 Semester Hours

- GEOS 1100 - Physical Geography GE (3)
- GEOG 2212 - World Geography GE (3)
- GEOG 2246 - Economic Geography (3)
- GEOG 3270 - Research Methods in Geography (3)

Electives from the Following: 9 Semester Hours

Including one course in regional geography

- GEOS 1004 - Introduction to Geology GE (4: 3 lecture, 1 lab)
- GEOS 3111 - Geomorphology (3)
- Electives in geography (2-9)

Occupational Safety and Health, BS (43-276) (120 hours)

Major, Bachelor of Science Degree

Student Outcomes

At the time of graduation, students with a Bachelor of Science degree in Occupational Safety and Health will be able to:

- Anticipate, recognize and evaluate hazards for the development of control strategies through the application of math, science, business and risk management concepts.
- Formulate, design, implement and evaluate safety, health and/or environmental programs.
- Communicate professionally both verbally and in writing as an individual and as a contributing member of a multidisciplinary team.
- Identify and interpret applicable standards, regulations, and codes in a global society.
- Conduct an accident investigation including root cause analysis and development of a corrective action plan.
- Demonstrate the ability to use the techniques, skills, and modern scientific and technical tools necessary for professional practice of the fundamental aspects of safety, health and environmental sciences (SH&E).
- Design and conduct experiments and formulate an analysis and interpretation of associated qualitative, semi-quantitative and/or quantitative data.
- Apply SH&E knowledge and principles in an internship, cooperative, or supervised experience.
- Understand and communicate professional and ethical codes.
- Develop the business case and demonstrate the value of SH&E interventions.
- Develop SH&E training utilizing appropriate adult learning theories and techniques to meet diversity in occupational settings.
- Articulate the need to maintain technical professional competency of contemporary issues in order to understand the impact of SH&E solutions in a global and societal context.

Program Educational Objectives

Additionally, graduates with a Bachelor of Science in Occupational Safety and Health will be prepared to attain the following educational objectives:

- Anticipate, recognize, and evaluate hazards, exposures, and risk through development and management of control strategies for hazardous conditions and work practices.
- Uphold the responsibilities of the profession to protect people, property and the environment in a global or societal market with personal integrity and honesty through adherence to professional ethical codes.
- Acquire and evaluate evolving SH&E-related information through research, and the application and continuing development of abilities, skills, and knowledge gained in the program to identify practical solutions for safety issues.
- Continually enhance discipline-specific technical competencies, skills and knowledge by seeking certification, and through active participation in professional societies, conferences, workshops, networking, continuing education, and/or other professional development activities.
- Develop, implement and provide ongoing leadership for organizational SH&E programs.

Graduation Requirements

Students seeking to graduate from this program must have a minimum 2.20 cumulative grade-point-average and must have attained the grade of C or better in all designated safety, math, and science courses. An assessment examination must be completed in the last semester of course work.

Accreditation

The Occupational Safety and Health program is accredited by the Applied Science Accreditation Commission of ABET, <http://www.abet.org>

Occupational Safety and Health, BS (43-276) (4 Year Guide)

Major Requirements: 73 Semester Hours

- SAFE 1000 - Exploring the Safety Sciences (1) *
- SAFE 2900 - Applied Sciences for Professional Studies (3)
- SAFE 3000 - Principles of Accident Causation and Prevention (3) *
- SAFE 3070 - Safety Leadership (3)
- SAFE 3120 - Industrial Hygiene (3) *
- SAFE 3430 - Industrial Hazard Control (3) *
- SAFE 4000 - Ergonomics in Safety and Health (3)
- SAFE 4010 - Accident Investigation (3)
- SAFE 4025 - Workers' Compensation and Legal Aspects of Safety (3)
- SAFE 4035 - Occupational Risk Management (3)
- SAFE 4055 - Safety Capstone Experience (3) ¹⁰ *
- SAFE 4140 - Safety and Health Laboratory (3) *
- SAFE 4150 - Noise Measurements (2)
- SAFE 4160 - Industrial Ventilation for Environmental Safety and Health (3)
- SAFE 4215 - Transportation and Storage of Hazardous Materials (3)
- SAFE 4425 - Safety and Health Legislation and Standards (3)
- SAFE 4435 - Environmental Compliance (3)
- SAFE 4515 - High Hazard Industries (3)
- SAFE 4560 - Systems Safety (3)
- SAFE 4850 - Industrial Fire Protection (3)
- SAFE 4940 - Statistical Analysis for Risk Management (3)
- SAFE 4990 - Internship in Safety Sciences (1-6) * (3)
- BIOL 2010 - Human Biology GE (3)
- CHEM 1604 - Elementary Organic and Biochemistry (4: 4 lecture, 0 lab) *

Elective from the Following: 3 Semester Hours

- SAFE 4440 - Environmental Air Quality and Pollution Prevention (3)
- SAFE 4445 - Water Quality and Waste Water Management (3)
- SAFE 4450 - Environmental Remediation (3)
- BIOL 2510 - Basic Genetics GE (3)

General Education Requirements: 42 Semester Hours

All students must complete a minimum of 42 credit hours in general education. Some majors require additional hours due to required coursework. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major:

- CHEM 1104 - Introduction to the Sciences: Chemistry GE (4: 4 lecture, 0 lab) *
- CTE 3060 - Technical Writing GE (3) *
- MATH 1111 - College Algebra GE (3) *

- PHYS 1103 - Introduction to the Sciences: Physics GE (3) *

Free Electives: 5 Semester Hours

Minimum Total: 120 Semester Hours

* Grade of C or better is required.

¹⁰ Competency 10 course

Occupational Safety, BS (43-873) - Environmental Management Option (OS01) (120 hours) [Also available as an accelerated program]

Occupational Safety, BS (43-873) - Environmental Management Option (OS01) (4 Year Guide)

Occupational Safety

Major, Bachelor of Science Degree (43-873)

Student Outcomes

At the time of graduation, students with a Bachelor of Science degree in Occupational Safety will be able to:

- Anticipate, recognize and evaluate hazards for the development of control strategies through the application of math, science, business and risk management concepts.
- Formulate, design, implement and evaluate safety, health and/or environmental programs.
- Communicate professionally both verbally and in writing as an individual and as a contributing member of a multidisciplinary team.
- Identify and interpret applicable standards, regulations, and codes in a global society.
- Conduct an accident investigation including root cause analysis and development of a corrective action plan.
- Demonstrate the ability to use the techniques, skills, and modern scientific and technical tools necessary for professional practice of the fundamental aspects of safety, health and environmental sciences (SH&E).
- Design and conduct experiments and formulate an analysis and interpretation of associated qualitative, semi-quantitative and/or quantitative data.
- Apply SH&E knowledge and principles in an internship, cooperative, or supervised experience.
- Understand and communicate professional and ethical codes.
- Develop the business case and demonstrate the value of SH&E interventions.
- Develop SH&E training utilizing appropriate adult learning theories and techniques to meet diversity in occupational settings.
- Articulate the need to maintain technical professional competency of contemporary issues in order to understand the impact of SH&E solutions in a global and societal context.

Program Educational Objectives

Additionally, graduates with a Bachelor of Science in Occupational Safety will be prepared to attain the following educational objectives:

- Anticipate, recognize, and evaluate hazards, exposures, and risk through development and management of control strategies for hazardous conditions and work practices.
- Uphold the responsibilities of the profession to protect people, property and the environment in a global or societal market with personal integrity and honesty through adherence to professional ethical codes.
- Acquire and evaluate evolving SH&E-related information through research, and the application and continuing development of abilities, skills, and knowledge gained in the program to identify practical solutions for safety issues.
- Continually enhance discipline-specific technical competencies, skills and knowledge by seeking certification, and through active participation in professional societies, conferences, workshops, networking, continuing education, and/or other professional development activities.
- Develop, implement and provide ongoing leadership for organizational SH&E programs.

Graduation Requirements

Students seeking to graduate from this program must have a minimum 2.20 cumulative grade-point-average and must have attained the grade of C or better in all designated safety, math, and science courses. An assessment examination must be completed in the last semester of course work.

Occupational Safety, BS (43-873) - Environmental Management Option (OS01) (120 hours) [Also available as an accelerated program]

Occupational Safety, BS (43-873) - Safety Management Option (OS02) (120 hours) [Also available as an accelerated program]

Occupational Safety, BS (43-873) - Occupational Health Management Option (OS03) (120 hours) [Also available as an accelerated program]

Major Core Requirements: 52 Semester Hours

- SAFE 1000 - Exploring the Safety Sciences (1) *
- SAFE 2900 - Applied Sciences for Professional Studies (3)
- SAFE 3000 - Principles of Accident Causation and Prevention (3) *
- SAFE 3070 - Safety Leadership (3)
- SAFE 3120 - Industrial Hygiene (3) *
- SAFE 3430 - Industrial Hazard Control (3) *
- SAFE 4000 - Ergonomics in Safety and Health (3)
- SAFE 4010 - Accident Investigation (3)
- SAFE 4025 - Workers' Compensation and Legal Aspects of Safety (3)
- SAFE 4035 - Occupational Risk Management (3)
- SAFE 4055 - Safety Capstone Experience (3) ¹⁰ *
- SAFE 4140 - Safety and Health Laboratory (3)
- SAFE 4215 - Transportation and Storage of Hazardous Materials (3)
- SAFE 4425 - Safety and Health Legislation and Standards (3)
- SAFE 4435 - Environmental Compliance (3)
- SAFE 4560 - Systems Safety (3)
- SAFE 4850 - Industrial Fire Protection (3)

- SAFE 4940 - Statistical Analysis for Risk Management (3)

Additional coursework: 3 Semester Hours

- SAFE 4980 - Practicum in Safety Sciences (1-6) (3) *
- OR
- SAFE 4990 - Internship in Safety Sciences (1-6) (3) *

Environmental Management Option: 15 Semester Hours

- SAFE 4160 - Industrial Ventilation for Environmental Safety and Health (3)
- SAFE 4440 - Environmental Air Quality and Pollution Prevention (3)
- SAFE 4445 - Water Quality and Waste Water Management (3)
- SAFE 4450 - Environmental Remediation (3)
- SAFE elective not already required (3)

General Education Requirements: 42 Semester Hours

All students must complete a minimum of 42 credit hours in general education. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major:

- BIOL 1005 - Introduction to Environmental Science GE (3) *
- BIOL 1006 - Environmental Science/Ecology Lab GE (1:1 lab) *
- CHEM 1103 - Introduction to the Sciences: Chemistry GE (3) *
- CTE 3060 - Technical Writing GE (3) *
- GEOG 2101 - Introduction to Sustainability GE (3)
- GEOS 2300 - Acquiring and Managing Spatial Information GE (2)
- MATH 1111 - College Algebra GE (3) *

Free Electives Option 1: 8 Semester Hours

Minimum Total: 120 Semester Hours

* Grade of C or better is required.

¹⁰ Competency 10 course

Accelerated Program Notes:

The Accelerated model for this program is designed for the MS Occupational Safety Management.

UCM students may consult with their faculty advisor and complete a school application to declare the accelerated Accelerated BS/MS Occupational Safety Management program. Prior to beginning the graduate portion of the program, student in the accelerated program will need to apply to the UCM Graduate School for formal admittance to the Accelerated BS/MS program.

Accelerated student may be eligible to include up to 9 hours from the following courses as overlap between the undergraduate and graduate programs. They would be taken at the Graduate level (5XXX):

SAFE 4160 - Industrial Ventilation for Environmental Safety and Health (3)

SAFE 4440 - Environmental Air Quality and Pollution Prevention (3)

SAFE 4445 - Water Quality and Waste Water Management (3)

SAFE 4450 - Environmental Remediation (3)

Occupational Safety, BS (43-873) - Occupational Health Management Option (OS03) (120 hours) [Also available as an accelerated program]

Occupational Safety, BS (43-873) - Occupational Health Management Option (OS03) (4 Year Guide)

Occupational Safety

Major, Bachelor of Science Degree (43-873)

Student Outcomes

At the time of graduation, students with a Bachelor of Science degree in Occupational Safety will be able to:

- Anticipate, recognize and evaluate hazards for the development of control strategies through the application of math, science, business and risk management concepts.
- Formulate, design, implement and evaluate safety, health and/or environmental programs.
- Communicate professionally both verbally and in writing as an individual and as a contributing member of a multidisciplinary team.
- Identify and interpret applicable standards, regulations, and codes in a global society.
- Conduct an accident investigation including root cause analysis and development of a corrective action plan.
- Demonstrate the ability to use the techniques, skills, and modern scientific and technical tools necessary for professional practice of the fundamental aspects of safety, health and environmental sciences (SH&E).
- Design and conduct experiments and formulate an analysis and interpretation of associated qualitative, semi-quantitative and/or quantitative data.
- Apply SH&E knowledge and principles in an internship, cooperative, or supervised experience.
- Understand and communicate professional and ethical codes.
- Develop the business case and demonstrate the value of SH&E interventions.
- Develop SH&E training utilizing appropriate adult learning theories and techniques to meet diversity in occupational settings.
- Articulate the need to maintain technical professional competency of contemporary issues in order to understand the impact of SH&E solutions in a global and societal context.

Program Educational Objectives

Additionally, graduates with a Bachelor of Science in Occupational Safety will be prepared to attain the following educational objectives:

- Anticipate, recognize, and evaluate hazards, exposures, and risk through development and management of control strategies for hazardous conditions and work practices.
- Uphold the responsibilities of the profession to protect people, property and the environment in a global or societal market with personal integrity and honesty through adherence to professional ethical codes.
- Acquire and evaluate evolving SH&E-related information through research, and the application and continuing development of abilities, skills, and knowledge gained in the program to identify practical solutions for safety issues.
- Continually enhance discipline-specific technical competencies, skills and knowledge by seeking certification, and through active participation in professional societies, conferences, workshops, networking, continuing education, and/or other professional development activities.
- Develop, implement and provide ongoing leadership for organizational SH&E programs.

Graduation Requirements

Students seeking to graduate from this program must have a minimum 2.20 cumulative grade-point-average and must have attained the grade of C or better in all designated safety, math, and science courses. An assessment examination must be completed in the last semester of course work.

Occupational Safety, BS (43-873) - Environmental Management Option (OS01) (120 hours) [Also available as an accelerated program]

Occupational Safety, BS (43-873) - Safety Management Option (OS02) (120 hours) [Also available as an accelerated program]

Occupational Safety, BS (43-873) - Occupational Health Management Option (OS03) (120 hours) [Also available as an accelerated program]

Major Core Requirements: 52 Semester Hours

- SAFE 1000 - Exploring the Safety Sciences (1) *
- SAFE 2900 - Applied Sciences for Professional Studies (3)
- SAFE 3000 - Principles of Accident Causation and Prevention (3) *
- SAFE 3070 - Safety Leadership (3)
- SAFE 3120 - Industrial Hygiene (3) *
- SAFE 3430 - Industrial Hazard Control (3) *
- SAFE 4000 - Ergonomics in Safety and Health (3)
- SAFE 4010 - Accident Investigation (3)
- SAFE 4025 - Workers' Compensation and Legal Aspects of Safety (3)
- SAFE 4035 - Occupational Risk Management (3)
- SAFE 4055 - Safety Capstone Experience (3) ¹⁰ *
- SAFE 4140 - Safety and Health Laboratory (3)
- SAFE 4215 - Transportation and Storage of Hazardous Materials (3)
- SAFE 4425 - Safety and Health Legislation and Standards (3)
- SAFE 4435 - Environmental Compliance (3)
- SAFE 4560 - Systems Safety (3)
- SAFE 4850 - Industrial Fire Protection (3)

- SAFE 4940 - Statistical Analysis for Risk Management (3)

Additional coursework: 3 Semester Hours

- SAFE 4980 - Practicum in Safety Sciences (1-6) (3) *
- OR
- SAFE 4990 - Internship in Safety Sciences (1-6) (3) *

Occupational Health Management Option: 18 Semester Hours

- CHEM 1604 - Elementary Organic and Biochemistry (4: 4 lecture, 0 lab) *
- BIOL 2010 - Human Biology GE (3) *
- SAFE 4150 - Noise Measurements (2)
- SAFE 4160 - Industrial Ventilation for Environmental Safety and Health (3)
- SAFE 4515 - High Hazard Industries (3)

Elective from the Following: 3 Semester Hours

- SAFE 4440 - Environmental Air Quality and Pollution Prevention (3)
- SAFE 4445 - Water Quality and Waste Water Management (3)
- SAFE 4450 - Environmental Remediation (3)
- BIOL 2510 - Basic Genetics GE (3)

General Education Requirements: 42 Semester Hours

All students must complete a minimum of 42 credit hours in general education. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major:

- BIOL 2010 - Human Biology GE (3) *
- BIOL 2510 - Basic Genetics GE (3) (if chosen)
- CHEM 1104 - Introduction to the Sciences: Chemistry GE (4: 4 lecture, 0 lab) *
- CTE 3060 - Technical Writing GE (3) *
- MATH 1111 - College Algebra GE (3) *
- PHYS 1103 - Introduction to the Sciences: Physics GE (3) *

Free Electives Option 3: 5 Semester Hours

Minimum Total: 120 Semester Hours

* Grade of C or better is required.

¹⁰ Competency 10 course

Accelerated Program Notes:

The Accelerated model for this program is designed for the MS Occupational Safety Management.

UCM students may consult with their faculty advisor and complete a school application to declare the accelerated Accelerated BS/MS Occupational Safety Management program. Prior to beginning the graduate portion of the program, student in the accelerated program will need to apply to the UCM Graduate School for formal admittance to the Accelerated BS/MS program.

Accelerated student may be eligible to include up to 9 hours from the following courses as overlap between the undergraduate and graduate programs. They would be taken at the Graduate level (5XXX):

SAFE 4150 - Noise Measurements (2)

SAFE 4160 - Industrial Ventilation for Environmental Safety and Health (3)

SAFE 4450 - Environmental Remediation (3)

SAFE 4515 - High Hazard Industries (3)

Occupational Safety, BS (43-873) - Safety Management Option (OS02) (120 hours) [Also available as an accelerated program]

Occupational Safety, BS (43-873) - Safety Management Option (OS02) (4 Year Guide)

Occupational Safety

Major, Bachelor of Science Degree (43-873)

Student Outcomes

At the time of graduation, students with a Bachelor of Science degree in Occupational Safety will be able to:

- Anticipate, recognize and evaluate hazards for the development of control strategies through the application of math, science, business and risk management concepts.
- Formulate, design, implement and evaluate safety, health and/or environmental programs.
- Communicate professionally both verbally and in writing as an individual and as a contributing member of a multidisciplinary team.
- Identify and interpret applicable standards, regulations, and codes in a global society.
- Conduct an accident investigation including root cause analysis and development of a corrective action plan.
- Demonstrate the ability to use the techniques, skills, and modern scientific and technical tools necessary for professional practice of the fundamental aspects of safety, health and environmental sciences (SH&E).
- Design and conduct experiments and formulate an analysis and interpretation of associated qualitative, semi-quantitative and/or quantitative data.
- Apply SH&E knowledge and principles in an internship, cooperative, or supervised experience.
- Understand and communicate professional and ethical codes.
- Develop the business case and demonstrate the value of SH&E interventions.
- Develop SH&E training utilizing appropriate adult learning theories and techniques to meet diversity in occupational settings.

- Articulate the need to maintain technical professional competency of contemporary issues in order to understand the impact of SH&E solutions in a global and societal context.

Program Educational Objectives

Additionally, graduates with a Bachelor of Science in Occupational Safety will be prepared to attain the following educational objectives:

- Anticipate, recognize, and evaluate hazards, exposures, and risk through development and management of control strategies for hazardous conditions and work practices.
- Uphold the responsibilities of the profession to protect people, property and the environment in a global or societal market with personal integrity and honesty through adherence to professional ethical codes.
- Acquire and evaluate evolving SH&E-related information through research, and the application and continuing development of abilities, skills, and knowledge gained in the program to identify practical solutions for safety issues.
- Continually enhance discipline-specific technical competencies, skills and knowledge by seeking certification, and through active participation in professional societies, conferences, workshops, networking, continuing education, and/or other professional development activities.
- Develop, implement and provide ongoing leadership for organizational SH&E programs.

Graduation Requirements

Students seeking to graduate from this program must have a minimum 2.20 cumulative grade-point-average and must have attained the grade of C or better in all designated safety, math, and science courses. An assessment examination must be completed in the last semester of course work.

Occupational Safety, BS (43-873) - Environmental Management Option (OS01) (120 hours) [Also available as an accelerated program]

Occupational Safety, BS (43-873) - Safety Management Option (OS02) (120 hours) [Also available as an accelerated program]

Occupational Safety, BS (43-873) - Occupational Health Management Option (OS03) (120 hours) [Also available as an accelerated program]

Major Core Requirements: 52 Semester Hours

- SAFE 1000 - Exploring the Safety Sciences (1) *
- SAFE 2900 - Applied Sciences for Professional Studies (3)
- SAFE 3000 - Principles of Accident Causation and Prevention (3) *
- SAFE 3070 - Safety Leadership (3)
- SAFE 3120 - Industrial Hygiene (3) *
- SAFE 3430 - Industrial Hazard Control (3) *
- SAFE 4000 - Ergonomics in Safety and Health (3)
- SAFE 4010 - Accident Investigation (3)
- SAFE 4025 - Workers' Compensation and Legal Aspects of Safety (3)
- SAFE 4035 - Occupational Risk Management (3)
- SAFE 4055 - Safety Capstone Experience (3) ¹⁰ *
- SAFE 4140 - Safety and Health Laboratory (3)

- SAFE 4215 - Transportation and Storage of Hazardous Materials (3)
- SAFE 4425 - Safety and Health Legislation and Standards (3)
- SAFE 4435 - Environmental Compliance (3)
- SAFE 4560 - Systems Safety (3)
- SAFE 4850 - Industrial Fire Protection (3)
- SAFE 4940 - Statistical Analysis for Risk Management (3)

Additional coursework: 3 Semester Hours

- SAFE 4980 - Practicum in Safety Sciences (1-6) (3) *
- OR
- SAFE 4990 - Internship in Safety Sciences (1-6) (3) *

Option 2 Safety Management: 18 Semester Hours

- SAFE 4515 - High Hazard Industries (3)

Choose a Minor or Courses Listed Below: 15 Semester Hours

- Declared minors vary from 15-34 hours. Based on the number of hours in a chosen minor, the total degree hours may exceed 120 (15)
- OR
- SAFE 3015 - Emergency Preparedness (3)
- SAFE 4510 - Loss Control (3)
- SAFE elective not already required (9)

General Education Requirements (Option 2): 42 Semester Hours

All students must complete a minimum of 42 credit hours in general education. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major:

- CHEM 1103 - Introduction to the Sciences: Chemistry GE (3) *
- CTE 3060 - Technical Writing GE (3) *
- MATH 1111 - College Algebra GE (3) *

- BIOL 1005 - Introduction to Environmental Science GE (3) *
- AND
- BIOL 1006 - Environmental Science/Ecology Lab GE (1:1 lab) *
- OR
- PHYS 1101 - College Physics I GE (4: 4 lecture, 0 lab) *
- OR
- PHYS 1104 - Introduction to the Sciences: Physics GE (4: 4 lecture, 0 lab) *
- OR
- PHYS 2121 - University Physics I GE (5: 5 lecture, 0 lab) *

Free Electives Option 2: 0-5 Semester Hours

Minimum Total: 120 Semester Hours

* Grade of C or better is required.

¹⁰ Competency 10 course

Accelerated Program Notes:

The Accelerated model for this program is designed for the MS Occupational Safety Management.

UCM students may consult with their faculty advisor and complete a school application to declare the accelerated Accelerated BS/MS Occupational Safety Management program. Prior to beginning the graduate portion of the program, student in the accelerated program will need to apply to the UCM Graduate School for formal admittance to the Accelerated BS/MS program.

Accelerated student may be eligible to include up to 9 hours from the following courses as overlap between the undergraduate and graduate programs. They would be taken at the Graduate level (5XXX):

SAFE 4300 - Agricultural Safety (3)

SAFE 4450 - Environmental Remediation (3)

SAFE 4510 - Loss Control (3)

SAFE 4515 - High Hazard Industries (3)

Physics Minor (479) (21-22 hours)

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 as prerequisites for courses in the minor.

Minor Requirements: 21-22 Semester Hours

- PHYS 2121 - University Physics I GE (5: 5 lecture, 0 lab)
- PHYS 2122 - University Physics II (5: 5 lecture, 0 lab)
- PHYS 3080 - Advanced Physics Laboratory (1-3) (2-3)
- PHYS 3511 - Modern Physics I (3)

Electives from the Following: 6 Semester Hours

- PHYS 3512 - Modern Physics II (3)
- PHYS 3611 - Optics (3)
- PHYS 4312 - Electricity and Magnetism (3)
- PHYS 4411 - Thermodynamics (3)
- PHYS 4512 - Introduction to Quantum Mechanics (3)
- PHYS 4513 - Solid State Physics (3)
- PHYS 4711 - Atomic and Nuclear Physics (3)

- PHYS 3211 - Analytical Mechanics I (3)
OR
- PHYS 3212 - Analytical Mechanics II (3)

Safety Minor (193) (22 hours)

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.

Minor Requirements: 22 Semester Hours

- SAFE 1000 - Exploring the Safety Sciences (1)
- SAFE 2900 - Applied Sciences for Professional Studies (3)
- SAFE 3000 - Principles of Accident Causation and Prevention (3)
- SAFE 3430 - Industrial Hazard Control (3)
- SAFE 4425 - Safety and Health Legislation and Standards (3)
- SAFE 4435 - Environmental Compliance (3)

Choose 2 from the Following: 6 Semester Hours

- SAFE 3120 - Industrial Hygiene (3) *
- SAFE 4000 - Ergonomics in Safety and Health (3)
- SAFE 4025 - Workers' Compensation and Legal Aspects of Safety (3)
- SAFE 4215 - Transportation and Storage of Hazardous Materials (3) *
- SAFE 4510 - Loss Control (3)
- SAFE 4515 - High Hazard Industries (3)

Note:

* This course has a prerequisite not listed in the program; click on the course number for additional requirements.

Science Minor (821) (20-23 hours)

Minor, Bachelor of Science in Education Degree

This minor program is designed for K-6 education majors who would like to expand their knowledge in general science as well as science teaching.

Minor Requirements: 20-23 Semester Hours

- Any Approved BIOL course for 3-4 hours.
- Any Approved PHYS or CHEM course for 3-4 hours.
- Any Approved EASC course for 3-4 hours.
- STCH 1003 - Great Concepts in Science GE (4: 3 lecture, 1 lab)

- STCH 3020 - Science and Engineering Practices GE (3)
- STCH 4010 - Exploring Firsthand Science Lessons (1-2) (1)
- STCH 4050 - Science Teaching Methods (3)

School of Natural Sciences

School of Natural Sciences
W.C. Morris 306
660-543-4933

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
- Conservation Enforcement
- Entomology
- Environmental Biology
- Fisheries and Estuarine Ecology
- Forest Biology
- Marine Biological Sciences
- Oceanography
- Plant Science
- Systematic Botany
- Wildlife Conservation

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 majors are required to serve as a lab assistant or lab preparation assistant for one semester in partial fulfillment of CHEM 4900.

NOTE: Students must attend the first scheduled lab period to avoid being dropped from the lab to accommodate students on the wait list. ACS Approval

The Chemistry programs are American Chemical Society (ACS) approved baccalaureate programs. The American Chemical Society is located at 1155 Sixteenth St, N.W., Washington, DC 20036; phone 800-227-5558; webpage acs.org.

Options in Agriculture Teacher Education and Biology are offered: Secondary Education, BSE (41-695) - Agriculture Teacher Education Option (E328) (129-130 hours), Secondary Education, BSE (41-695) - Biology Option (E487) (123-133 hours)

Agricultural Science, BS (43-890) (120 hours)

Major, Bachelor of Science Degree

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

- Explain how knowledge of scientific principles, economic theories and management concepts are applied in agricultural practices to produce food and fiber for society.
- Describe how local, state, national and international policies and perspectives impact agriculture and food production throughout the world.
- Demonstrate effective written and oral communication skills in agricultural science classes.
- Demonstrate ability to analyze and solve agriculture problems individually and in groups.

Agricultural Science, BS (43-277) (Area 1: Agribusiness Management) (4 Year Guide)

Agricultural Science, BS (43-277) (Area 2: Animal Science) (4 Year Guide)

Agricultural Science, BS (43-277) (Area 3: Agronomy) (4 Year Guide)

Agricultural Science, BS (43-277) (Area 4: Horticultural Science) (4 Year Guide)

Major Requirements: 57-66 Semester Hours

Core: 39 Semester Hours

- AGRI 1100 - Strategies for Success in the UCM Agriculture Program (1)
- AGRI 1420 - Introduction to Animal Science (3: 2 lecture, 1 lab)
- AGRI 2330 - Introduction to Soil Science (3: 2 lecture, 1 lab)
- AGRI 2425 - Introduction to Animal Production (3: 3 lecture, 0 lab)
- AGRI 3110 - Agri-Business Management (3)
- AGRI 3120 - Distribution and Marketing Agriculture Products (3)
- AGRI 3610 - Agriculture Pest Management (3)
- AGRI 3810 - Internship in Agriculture (1-3) (3)
- AGRI 4101 - Agricultural Capstone Experience (3) ¹⁰
- AGRI 4300 - Soil Fertility and Fertilizers (3)

- AGRI 1310 - Agronomy I: Row Crops (2: 2 lecture, 0 lab)
OR
- AGRI 2315 - Agronomy II: Forages (2)

- AGRI 3420 - Animal Nutrition (3: 2 lecture, 1 lab) (required for Area 2)
OR
- AGRI 4310 - Plant Breeding and Genetics (3)

- ECON 1011 - Principles of Microeconomics GE (3)
- SAFE 4300 - Agricultural Safety (3)

Elect One of the 4 Areas: 19-27 Semester Hours

Area 1 - Agribusiness Management: 27 Semester Hours

- AGRI 3140 - Agricultural Analysis and Statistics (3)
- AGRI 4110 - Agricultural Futures Trading (3)
- AGRI 4120 - International Agriculture (3)
- AGRI 4140 - Agricultural Policy (3)
- AGRI 4150 - Natural Resource Economics (3)
- BLAW 2720 - Legal Environment of Business (3)
- MGT 3325 - Business Communication (3)
- MKT 3430 - Professional Sales (3)

- ACCT 2100 - Survey of Accounting (3)
- **OR**
- ACCT 1101 - Foundations of Financial Reporting (3)

Area 2 - Animal Science: 18 Semester Hours

- AGRI 3410 - Animal Breeding (3)
- AGRI 3415 - Meat Science (2: 1 lecture, 1 lab)
- AGRI 4110 - Agricultural Futures Trading (3)
- AGRI 4415 - Reproduction of Farm Animals (3)
- AGRI 4410 - General Veterinary Science (3)
- AGRI 4440 - Advanced Beef Cattle and Swine Production (4: 3 lecture, 1 lab)

Area 3 - Agronomy: 24 Semester Hours

- AGRI 2331 - Soils (3)
- AGRI 3210 - Soil and Water Management (3)
- AGRI 3320 - Field Crop Management (3)
- AGRI 4110 - Agricultural Futures Trading (3)
- AGRI 4120 - International Agriculture (3)
- AGRI 4320 - Plant Diseases (3)
- AGRI 4340 - Agricultural Sprays and Chemicals (3: 3 lecture, 0 lab)
- GEOS 4220 - Geographic Information Systems I (3)

Area 4 - Horticultural Science: 24 Semester Hours

- AGRI 3620 - Residential Landscape Design (3: 2 lecture, 1 lab)
- AGRI 3640 - Horticultural Propagation Materials (3: 2 lecture, 1 lab)
- AGRI 4000 - Special Projects in Agriculture (1-6) (3)
- AGRI 4320 - Plant Diseases (3)
- AGRI 4340 - Agricultural Sprays and Chemicals (3: 3 lecture, 0 lab)
- AGRI 4600 - Horticultural Plants I: Woody (3: 2 lecture, 1 lab)
- AGRI 4605 - Horticultural Plants II: Herbaceous (3: 2 lecture, 1 lab)
- AGRI 4610 - Turfgrass Science (3: 2 lecture, 1 lab)

General Education Requirements: 43 Semester Hours

All students must complete a minimum of 42 credit hours in general education. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major:

- AGRI 1600 - Introduction to Horticulture Science GE (4: 3 lecture, 1 lab)
- AGRI 2130 - Global Agriculture GE (3)
- COMM 1000 - Public Speaking GE (3)
- CHEM 1104 - Introduction to the Sciences: Chemistry GE (4: 4 lecture, 0 lab)
- ECON 1010 - Principles of Macroeconomics GE (3)
- LIS 1600 - University Library and Research Skills GE (2)
- MATH 1111 - College Algebra GE (3)

Free Electives: 11-20 Semester Hours

Minimum Total: 120 Semester Hours

¹⁰ Competency 10 course

Agriculture Minor (110) (25 hours)

Minor for a Bachelor's Degree

UCM does not confer teacher certification for this minor.

Minor Requirements: 25 Semester Hours

- AGRI 1310 - Agronomy I: Row Crops (2: 2 lecture, 0 lab)
- AGRI 1420 - Introduction to Animal Science (3: 2 lecture, 1 lab)
- AGRI 2330 - Introduction to Soil Science (3: 2 lecture, 1 lab)
- AGRI 3120 - Distribution and Marketing Agriculture Products (3)
- CHEM 1104 - Introduction to the Sciences: Chemistry GE (4: 4 lecture, 0 lab)
- ECON 1011 - Principles of Microeconomics GE (3) *

- AGRI 1200 - Agriculture Mechanics (3: 2 lecture, 1 lab)
OR
- AGRI 3200 - Farm Power and Machinery (3)

- AGRI 1600 - Introduction to Horticulture Science GE (4: 3 lecture, 1 lab)

Note:

* This course has prerequisites not listed in the program; click the course number for additional requirements.

Animal Identification Certificate (10-662)

The Animal Identification undergraduate certificate program is designed to help students meet professional objectives. Each course contains a significant level of the identification and identification procedures for natural resource jobs. The student may choose to use this certificate as career preparation tool for entry into employment. A student must earn a "C" or better with the courses listed to earn this certificate.

Required Courses: 20 Semester Hours

- BIOL 1112 - Animal Biology (4: 3 lecture, 1 lab)

Electives: 16 Semester Hours

- BIOL 4210 - Ichthyology (4: 3 lecture, 1 lab)
- BIOL 4221 - Mammalogy (4: 2 lecture, 2 lab)
- BIOL 4223 - Ornithology (4: 2 lecture, 2 lab)
- BIOL 4232 - Herpetology (4: 2 lecture, 2 lab)
- BIOL 4312 - Entomology (4: 2 lecture, 2 lab)

Biological Monitoring and Assessment Certificate (10-660)

The Biological Monitoring and Assessment undergraduate certificate program is designed to help students meet professional objectives. Each course contains a significant level of sampling, monitoring and assessment procedures for natural resource jobs. The student may choose to use this certificate as career preparation tool for entry into employment. A student must earn a "C" or better with the courses listed to earn this certificate.

Required Courses: 21 Semester Hours

- BIOL 3709 - Dendrology (4: 3 lecture, 1 lab)
- BIOL 4013 - Introduction to Experimental Design and Analysis (3)
- BIOL 4014 - Internship in Biology (1-9) (3)
- BIOL 4709 - Plant Ecology (4: 2 lecture, 2 lab)
- BIOL 4711 - Animal Ecology (4: 3 lecture, 1 lab)
- BIOL 4722 - Conservation Biology (3)

Biology Minor (476) (22 hours)

Minor for a Bachelor's Degree

UCM does not confer teacher certification for this minor.

Minor Requirements: 22 Semester Hours

- BIOL 1110 - Principles of Biology (3)
- BIOL 2020 - General Ecology (3)
- BIOL 2510 - Basic Genetics GE (3)
- BIOL 2512 - Cell Biology (3)

- BIOL 1111 - Plant Biology (4: 3 lecture, 1 lab)
OR
- BIOL 1112 - Animal Biology (4: 3 lecture, 1 lab)
- CHEM 1104 - Introduction to the Sciences: Chemistry GE (4: 4 lecture, 0 lab)
OR
- CHEM 1131 - General Chemistry I GE (5: 5 lecture, 0 lab)
- Upper-level (3000/4000) elective in Biology (1-2)

Biology, BS (43-380) (120 hours)

Major, Bachelor of Science Degree

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

- Apply fundamental biological principles from major areas of biology to answer questions encountered by biologists
- Use discipline-appropriate methods and instruments with accuracy, precision and safety in order to answer biological questions.
- Use the language and concepts of Biology to communicate effectively in oral and written form.

Biology, BS (43-380) (Area 1: General Biology) (4 Year Guide)

Biology, BS (43-380) (Area 2: Ecology & Evolutionary Biology) (4 Year Guide)

Biology, BS (43-380) (Area 3: Wildlife & Natural Resource Conservation) (4 Year Guide)

Biology, BS (43-380) (Area 4: Integrative Biology, Plant Biology Emphasis) (4 Year Guide)

Biology, BS (43-380) (Area 4: Integrative Biology, Animal Biology Emphasis) (4 Year Guide)

Biology, BS (43-380) (Area 5: Biomedical/Cellular & Molecular Biology) (4 Year Guide)

Biology, BS (43-380) (Area 6: Pre-Med, Pre-Dental, Pre-Vet) (4 Year Guide)

Biology, BS (43-380) (Area 7: Conservation Enforcement) (4 Year Guide)

Major Requirements: 63-77 Semester Hours

Core: 29 Semester Hours

- BIOL 1000 - The Discipline of Biology (1)
- BIOL 1110 - Principles of Biology (3)
- BIOL 2020 - General Ecology (3)
- BIOL 2512 - Cell Biology (3)
- BIOL 4102 - Evolution (3)
- BIOL 4222 - The Biological Perspective (3) ¹⁰
- CHEM 1131 - General Chemistry I GE (5: 5 lecture, 0 lab)
- CHEM 1132 - General Chemistry II (5: 5 lecture, 0 lab)
- MATH 1111 - College Algebra GE (3)

Elect One of the 7 Areas: 34-48 Semester Hours

Area 1 - General Biology: 34 Semester Hours

- BIOL 1111 - Plant Biology (4: 3 lecture, 1 lab)
- BIOL 1112 - Animal Biology (4: 3 lecture, 1 lab)
- BIOL 3511 - Genetics (4: 3 lecture, 1 lab)
- BIOL 3611 - Microbiology (4: 3 lecture, 1 lab)
- BIOL 4001 - Ecology Senior Seminar (1)
- BIOL 4013 - Introduction to Experimental Design and Analysis (3)

Ecology/Wildlife Biology Electives: 4 Semester Hours

- BIOL 3709 - Dendrology (4: 3 lecture, 1 lab)
- BIOL 3711 - Plant Identification (4: 3 lecture, 1 lab)
- BIOL 3712 - Field Techniques in Biology (4: 1 lecture, 3 lab)
- BIOL 4210 - Ichthyology (4: 3 lecture, 1 lab)
- BIOL 4221 - Mammalogy (4: 2 lecture, 2 lab)
- BIOL 4223 - Ornithology (4: 2 lecture, 2 lab)
- BIOL 4232 - Herpetology (4: 2 lecture, 2 lab)
- BIOL 4312 - Entomology (4: 2 lecture, 2 lab)
- BIOL 4412 - Wildlife Diseases (4: 3 lecture, 1 lab)
- BIOL 4709 - Plant Ecology (4: 2 lecture, 2 lab)
- BIOL 4710 - Limnology (4: 2 lecture, 2 lab)
- BIOL 4711 - Animal Ecology (4: 3 lecture, 1 lab)
- BIOL 4953 - Ecology Field Course (1-6)

Life Science Electives: 10 Semester Hours

- BIOL 3213 - Embryology of Vertebrates (3: 2 lecture, 1 lab)
- BIOL 3401 - Human Anatomy (3: 1 lecture, 2 lab)
- BIOL 3402 - Human Physiology (5: 4 lecture, 1 lab)
- BIOL 3413 - Immunology (3)
- BIOL 3414 - Histology (3: 2 lecture, 1 lab)
- BIOL 3431 - Animal Physiology (4: 2 lecture, 2 lab)
- BIOL 4311 - Parasitology (4: 2 lecture, 2 lab)
- BIOL 4400 - Endocrinology (2)
- BIOL 4403 - Environmental Physiology (4: 3 lecture, 1 lab)
- BIOL 4411 - Plant Physiology (4: 2 lecture, 2 lab)
- BIOL 4514 - Molecular Biology (3)
- BIOL 4515 - Molecular Technology (3: 2 lecture, 1 lab)
- BIOL 4516 - Hematology/Virology (3)
- BIOL 4517 - Serology Laboratory (1)

Area 2 - Ecology and Evolutionary Biology: 38-40 Semester Hours

- BIOL 1111 - Plant Biology (4: 3 lecture, 1 lab)
- BIOL 1112 - Animal Biology (4: 3 lecture, 1 lab)
- BIOL 3711 - Plant Identification (4: 3 lecture, 1 lab)
- BIOL 4001 - Ecology Senior Seminar (1)
- BIOL 4013 - Introduction to Experimental Design and Analysis (3)

- BIOL 2510 - Basic Genetics GE (3)
OR
- BIOL 3511 - Genetics (4: 3 lecture, 1 lab)

- BIOL 3610 - Basic Microbiology (3)
OR
- BIOL 3611 - Microbiology (4: 3 lecture, 1 lab)
OR
- BIOL 4412 - Wildlife Diseases (4: 3 lecture, 1 lab)

Choose 2 from the Following: 8 Semester Hours

- BIOL 4709 - Plant Ecology (4: 2 lecture, 2 lab)
- BIOL 4710 - Limnology (4: 2 lecture, 2 lab)
- BIOL 4711 - Animal Ecology (4: 3 lecture, 1 lab)

Choose from the Following: 8 Semester Hours

- BIOL 3211 - Comparative Anatomy (4: 2 lecture, 2 lab)
- BIOL 3709 - Dendrology (4: 3 lecture, 1 lab)
- BIOL 3712 - Field Techniques in Biology (4: 1 lecture, 3 lab)
- BIOL 4210 - Ichthyology (4: 3 lecture, 1 lab)
- BIOL 4221 - Mammalogy (4: 2 lecture, 2 lab)
- BIOL 4223 - Ornithology (4: 2 lecture, 2 lab)
- BIOL 4232 - Herpetology (4: 2 lecture, 2 lab)
- BIOL 4312 - Entomology (4: 2 lecture, 2 lab)
- BIOL 4953 - Ecology Field Course (1-6)

Note:

It is strongly recommended to take GEOS 4220 - Geographic Information Systems I (3), 3, as a free elective for those students interested in government agency jobs.

Area 3 - Wildlife and Natural Resource Conservation: 39-41 Semester Hours

- BIOL 1111 - Plant Biology (4: 3 lecture, 1 lab)
- BIOL 1112 - Animal Biology (4: 3 lecture, 1 lab)
- BIOL 3711 - Plant Identification (4: 3 lecture, 1 lab)
- BIOL 3721 - Wildlife Management (3)
- BIOL 4001 - Ecology Senior Seminar (1)

- BIOL 4013 - Introduction to Experimental Design and Analysis (3)
- BIOL 4412 - Wildlife Diseases (4: 3 lecture, 1 lab)
- BIOL 4722 - Conservation Biology (3)
- BIOL 4919 - Wildlife Policy and Law (3)

- BIOL 2510 - Basic Genetics GE (3)
- OR**
- BIOL 3511 - Genetics (4: 3 lecture, 1 lab)

Electives from the Following: 8 Semester Hours

- BIOL 3211 - Comparative Anatomy (4: 2 lecture, 2 lab)
- BIOL 3709 - Dendrology (4: 3 lecture, 1 lab)
- BIOL 3712 - Field Techniques in Biology (4: 1 lecture, 3 lab)
- BIOL 4210 - Ichthyology (4: 3 lecture, 1 lab)
- BIOL 4221 - Mammalogy (4: 2 lecture, 2 lab)
- BIOL 4223 - Ornithology (4: 2 lecture, 2 lab)
- BIOL 4232 - Herpetology (4: 2 lecture, 2 lab)
- BIOL 4312 - Entomology (4: 2 lecture, 2 lab)
- BIOL 4709 - Plant Ecology (4: 2 lecture, 2 lab)
- BIOL 4710 - Limnology (4: 2 lecture, 2 lab)
- BIOL 4711 - Animal Ecology (4: 3 lecture, 1 lab)
- BIOL 4953 - Ecology Field Course (1-6)

Note:

It is strongly recommended to take GEOS 4220 - Geographic Information Systems I (3), 3, as a free elective for those students interested in government agency jobs.

Area 4 - Integrative Biology: 38-40 Semester Hours

- BIOL 1510 - Investigative Biology (4: 3 lecture, 1 lab)
- BIOL 3511 - Genetics (4: 3 lecture, 1 lab)
- BIOL 4002 - Life Science Senior Seminar (1)
- BIOL 4013 - Introduction to Experimental Design and Analysis (3)
- PHYS 1101 - College Physics I GE (4: 4 lecture, 0 lab)

Choose Plant Biol. or Animal Biol. Emphasis (A or B): 22-24 Semester Hours

A. Plant Biology Emphasis

- BIOL 1111 - Plant Biology (4: 3 lecture, 1 lab)
- BIOL 3711 - Plant Identification (4: 3 lecture, 1 lab)
- BIOL 4411 - Plant Physiology (4: 2 lecture, 2 lab)
- BIOL 4709 - Plant Ecology (4: 2 lecture, 2 lab)

Electives from the Following: 6-8 Semester Hours

- AGRI 2330 - Introduction to Soil Science (3: 2 lecture, 1 lab)
- AGRI 2331 - Soils (3)
- AGRI 4310 - Plant Breeding and Genetics (3)
- AGRI 4320 - Plant Diseases (3)
- BIOL 3611 - Microbiology (4: 3 lecture, 1 lab)
- BIOL 4312 - Entomology (4: 2 lecture, 2 lab)
- BIOL 4514 - Molecular Biology (3)
- BIOL 4515 - Molecular Technology (3: 2 lecture, 1 lab)
- GEOS 3010 - Environmental Geology (3)
- GEOS 4220 - Geographic Information Systems I (3)

B. Animal Biology Emphasis

- BIOL 1112 - Animal Biology (4: 3 lecture, 1 lab)
- BIOL 3211 - Comparative Anatomy (4: 2 lecture, 2 lab)
- BIOL 3431 - Animal Physiology (4: 2 lecture, 2 lab)
- BIOL 4711 - Animal Ecology (4: 3 lecture, 1 lab)

Electives from the Following: 6-8 Semester Hours

- BIOL 3213 - Embryology of Vertebrates (3: 2 lecture, 1 lab)
- BIOL 3413 - Immunology (3)
- BIOL 3414 - Histology (3: 2 lecture, 1 lab)
- BIOL 3611 - Microbiology (4: 3 lecture, 1 lab)
- BIOL 4210 - Ichthyology (4: 3 lecture, 1 lab)
- BIOL 4221 - Mammalogy (4: 2 lecture, 2 lab)
- BIOL 4223 - Ornithology (4: 2 lecture, 2 lab)
- BIOL 4232 - Herpetology (4: 2 lecture, 2 lab)
- BIOL 4311 - Parasitology (4: 2 lecture, 2 lab)
- BIOL 4312 - Entomology (4: 2 lecture, 2 lab)
- BIOL 4400 - Endocrinology (2)
- BIOL 4412 - Wildlife Diseases (4: 3 lecture, 1 lab)
- BIOL 4514 - Molecular Biology (3)
- BIOL 4515 - Molecular Technology (3: 2 lecture, 1 lab)
- GEOS 3010 - Environmental Geology (3)
- GEOS 4220 - Geographic Information Systems I (3)

Area 5 - Biomedical/Cellular and Molecular Biology: 38 Semester Hours

- BIOL 1510 - Investigative Biology (4: 3 lecture, 1 lab)
 - BIOL 3511 - Genetics (4: 3 lecture, 1 lab)
 - BIOL 4002 - Life Science Senior Seminar (1)
 - BIOL 4514 - Molecular Biology (3)
 - BIOL 4515 - Molecular Technology (3: 2 lecture, 1 lab)

 - ACST 1300 - Basic Statistics GE (3)
- OR**

- ACST 2310 - Statistics and Data Analysis (3)
- BIOL 1111 - Plant Biology (4: 3 lecture, 1 lab)
OR
- BIOL 1112 - Animal Biology (4: 3 lecture, 1 lab)

Electives from the Following: 16 Semester Hours

- AGRI 4310 - Plant Breeding and Genetics (3)
- AGRI 4320 - Plant Diseases (3)
- BIOL 3413 - Immunology (3)
- BIOL 3431 - Animal Physiology (4: 2 lecture, 2 lab)
- BIOL 3611 - Microbiology (4: 3 lecture, 1 lab)
- BIOL 4311 - Parasitology (4: 2 lecture, 2 lab)
- BIOL 4411 - Plant Physiology (4: 2 lecture, 2 lab)
- BIOL 4412 - Wildlife Diseases (4: 3 lecture, 1 lab)
- BIOL 4516 - Hematology/Virology (3)
- BIOL 4517 - Serology Laboratory (1)
- CHEM 3341 - Organic Chemistry I (4: 4 lecture, 0 lab)
- CHEM 3342 - Organic Chemistry II (4: 4 lecture, 0 lab)
- CHEM 3421 - Biochemistry (3)
- PHYS 1101 - College Physics I GE (4: 4 lecture, 0 lab)

Area 6 - Pre-Med., Pre-Dental, Pre-Vet: 45 Semester Hours

- BIOL 1111 - Plant Biology (4: 3 lecture, 1 lab)
- BIOL 1112 - Animal Biology (4: 3 lecture, 1 lab)
- BIOL 3511 - Genetics (4: 3 lecture, 1 lab)
- BIOL 3611 - Microbiology (4: 3 lecture, 1 lab)
- BIOL 4002 - Life Science Senior Seminar (1)
- CHEM 3341 - Organic Chemistry I (4: 4 lecture, 0 lab)
- PHYS 1101 - College Physics I GE (4: 4 lecture, 0 lab)

- BIOL 3211 - Comparative Anatomy (4: 2 lecture, 2 lab)
AND
- BIOL 3431 - Animal Physiology (4: 2 lecture, 2 lab)
OR
- BIOL 3401 - Human Anatomy (3: 1 lecture, 2 lab)
AND
- BIOL 3402 - Human Physiology (5: 4 lecture, 1 lab)

Electives from the Following: 12 Semester Hours

- BIOL 3213 - Embryology of Vertebrates (3: 2 lecture, 1 lab)
- BIOL 3413 - Immunology (3)
- BIOL 3414 - Histology (3: 2 lecture, 1 lab)
- BIOL 4013 - Introduction to Experimental Design and Analysis (3)

- BIOL 4311 - Parasitology (4: 2 lecture, 2 lab)
- BIOL 4400 - Endocrinology (2)
- BIOL 4412 - Wildlife Diseases (4: 3 lecture, 1 lab)
- BIOL 4514 - Molecular Biology (3)
- BIOL 4515 - Molecular Technology (3: 2 lecture, 1 lab)
- BIOL 4516 - Hematology/Virology (3)
- BIOL 4517 - Serology Laboratory (1)
- CHEM 3342 - Organic Chemistry II (4: 4 lecture, 0 lab)
- CHEM 3421 - Biochemistry (3)
- PHYS 1102 - College Physics II (4: 4 lecture, 0 lab)

Area 7 - Conservation Enforcement: 48-49 Semester Hours

- BIOL 1111 - Plant Biology (4: 3 lecture, 1 lab)
- BIOL 1112 - Animal Biology (4: 3 lecture, 1 lab)
- BIOL 2510 - Basic Genetics GE (3)
- BIOL 3711 - Plant Identification (4: 3 lecture, 1 lab)
- BIOL 3721 - Wildlife Management (3)
- BIOL 4001 - Ecology Senior Seminar (1)
- BIOL 4412 - Wildlife Diseases (4: 3 lecture, 1 lab)
- BIOL 4919 - Wildlife Policy and Law (3)
- CJ 1000 - Introduction to Criminal Justice GE (3)
- CJ 2300 - Criminal Law and Procedure (3)
- CJ 4302 - Evidence and Courtroom Procedure (3)
- CTE 3060 - Technical Writing GE (3)
- PR 2620 - Principles of Public Relations (3)

Electives from the Following: 4 Semester Hours

- BIOL 3709 - Dendrology (4: 3 lecture, 1 lab)
- BIOL 3712 - Field Techniques in Biology (4: 1 lecture, 3 lab)
- BIOL 4210 - Ichthyology (4: 3 lecture, 1 lab)
- BIOL 4221 - Mammalogy (4: 2 lecture, 2 lab)
- BIOL 4223 - Ornithology (4: 2 lecture, 2 lab)
- BIOL 4232 - Herpetology (4: 2 lecture, 2 lab)
- BIOL 4312 - Entomology (4: 2 lecture, 2 lab)

Elective from the Following: 3-4 Semester Hours

- BIOL 4709 - Plant Ecology (4: 2 lecture, 2 lab)
- BIOL 4710 - Limnology (4: 2 lecture, 2 lab)
- BIOL 4711 - Animal Ecology (4: 3 lecture, 1 lab)
- BIOL 4722 - Conservation Biology (3)

General Education Requirements: 26-35 Semester Hours

All students must complete a minimum of 42 credit hours in general education. See The General Education Program Requirements for full listing of requirements. The following general education classes are either required or listed as a major option elective by this major:

- ACST 1300 - Basic Statistics GE (3) (Area 5 if chosen)
- BIOL 2510 - Basic Genetics GE (3) (Area 2 & 3 if chosen, Area 7)
- CHEM 1131 - General Chemistry I GE (5: 5 lecture, 0 lab) (all areas)
- CJ 1000 - Introduction to Criminal Justice GE (3) (Area 7)
- CTE 3060 - Technical Writing GE (3) (Area 7)
- MATH 1111 - College Algebra GE (3) (all areas)
- PHYS 1101 - College Physics I GE (4: 4 lecture, 0 lab) (Areas 4 & 6)

Free Electives: 15-21 Semester Hours

Area 1: 22 Sem. Hours

Area 2: 16-21 Sem. Hours

Area 3: 15-20 Sem. Hours

Area 4: 19-21 Sem. Hours

Area 5: 21 Sem. Hours

Area 6: 15 Sem. Hours

Area 7: 17-18 Sem. Hours

Minimum Total: 120 Semester Hours

¹⁰ Competency 10 course

Chemistry Minor (478) (21 hours)

Minor for a Bachelor's Degree

UCM does not confer teacher certification for this minor.

Minor Requirements: 21 Semester Hours

- CHEM 1131 - General Chemistry I GE (5: 5 lecture, 0 lab)
- CHEM 1132 - General Chemistry II (5: 5 lecture, 0 lab)
- CHEM 3341 - Organic Chemistry I (4: 4 lecture, 0 lab)
- CHEM 3342 - Organic Chemistry II (4: 4 lecture, 0 lab)
- Upper-level (3000/4000) elective in Chemistry (3)

Chemistry, BS (43-393) (120 hours)

Major, Bachelor of Science Degree

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

- Demonstrate an understanding of core knowledge concerning the major concepts in the basic areas of the discipline (analytical, biological, inorganic, organic and physical chemistry).
- Solve problems by identifying the essential parts of a problem, developing a strategy for solving the problem, and applying appropriate methodology to arrive at a solution.
- Use computers in data acquisition and processing and use software as a tool in data analysis.
- Utilize modern search tools to locate and retrieve scientific information about a chemical, chemical technique, or topic relating to chemistry.
- Understand the objective, correctly conduct, and appropriately record and interpret the results of chemical experiments.
- Use standard laboratory equipment, modern instrumentation, and standard techniques to carry out experiments.
- Follow the proper procedures and regulations for safe handling and use of chemicals.
- Effectively communicate chemical concepts and experimental results through writing and oral communication skills.
- Successfully pursue their career objectives in advanced education in professional and/or graduate schools, in a scientific career in government or industry, in a teaching career in the school systems, or in a related career following graduation.

Policies

Chemistry (43-393) - Chemistry Option, BS (4 Year Guide)

Chemistry (43-393) - Chemistry: ACS Certified Option, BS (4 Year Guide) Begin Even Numbered Year

Chemistry (43-393) - Chemistry: ACS Certified Option, BS (4 Year Guide) Begin Odd Numbered Year

Chemistry (43-393) - Biochemistry Option, BS (4 Year Guide) Begin Even Numbered Year

Chemistry (43-393) - Biochemistry Option, BS (4 Year Guide) Begin Odd Numbered Year

Major Requirements: 45-61 Semester Hours

Core: 39-40 Semester Hours

- CHEM 1132 - General Chemistry II (5: 5 lecture, 0 lab)
- CHEM 3111 - Inorganic Chemistry (4: 4 lecture, 0 lab)
- CHEM 3212 - Quantitative Analysis (4: 4 lecture, 0 lab)
- CHEM 3341 - Organic Chemistry I (4: 4 lecture, 0 lab)
- CHEM 3342 - Organic Chemistry II (4: 4 lecture, 0 lab)
- CHEM 3421 - Biochemistry (3)
- CHEM 3920 - Communication Skills in Chemistry (2) ¹⁰
- CHEM 4531 - Physical Chemistry: Thermodynamics and Kinetics (4: 4 lecture, 0 lab) *
- MATH 1152 - Calculus II (5)

- PHYS 1102 - College Physics II (4: 4 lecture, 0 lab)

OR

- PHYS 2122 - University Physics II (5: 5 lecture, 0 lab)

Choose One of the Following 3 Options: 6-21 Semester Hours

Option 1 - Chemistry: 6 Semester Hours

- CHEM 4111 - Advanced Inorganic Chemistry (3)
- CHEM 4221 - Environmental Chemistry (3)
- CHEM 4231 - Instrumental Analysis (4: 4 lecture, 0 lab)
- CHEM 4313 - Advanced Organic Chemistry (3)
- CHEM 4421 - Advanced Biochemistry (3)
- CHEM 4431 - Biochemistry Laboratory (2)
- CHEM 4532 - Physical Chemistry: Quantum Mechanics and Spectroscopy (4: 4 lecture, 0 lab) *
- CHEM 4800 - Forensic Chemistry and Toxicology (3)
- CHEM 4910 - Research in Chemistry (1-5) (2)

Option 2 - Chemistry: ACS Certified: 16 Semester Hours

- CHEM 4231 - Instrumental Analysis (4: 4 lecture, 0 lab)
- CHEM 4532 - Physical Chemistry: Quantum Mechanics and Spectroscopy (4: 4 lecture, 0 lab) *
- CHEM 4910 - Research in Chemistry (1-5) (2)

Electives from the following: 6 Semester Hours

- CHEM 4111 - Advanced Inorganic Chemistry (3)
- CHEM 4221 - Environmental Chemistry (3)
- CHEM 4313 - Advanced Organic Chemistry (3)
- CHEM 4421 - Advanced Biochemistry (3)
- CHEM 4431 - Biochemistry Laboratory (2)
- CHEM 4800 - Forensic Chemistry and Toxicology (3)

Option 3 - Biochemistry: 22 Semester Hours

- BIOL 1110 - Principles of Biology (3)
- BIOL 3511 - Genetics (4: 3 lecture, 1 lab)
- BIOL 4514 - Molecular Biology (3)
- BIOL 4515 - Molecular Technology (3: 2 lecture, 1 lab)
- CHEM 4231 - Instrumental Analysis (4: 4 lecture, 0 lab)
- CHEM 4421 - Advanced Biochemistry (3)
- CHEM 4431 - Biochemistry Laboratory (2)

General Education Requirements: 46-47 Semester Hours

All students must complete a minimum of 42 credit hours in general education. Some majors require additional hours due to required coursework. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major:

- CHEM 1131 - General Chemistry I GE (5: 5 lecture, 0 lab)
- MATH 1151 - Calculus I GE (5)

- PHYS 1101 - College Physics I GE (4: 4 lecture, 0 lab)
OR
- PHYS 2121 - University Physics I GE (5: 5 lecture, 0 lab)

Minimum Total: 120 Semester Hours

¹⁰ Competency 10 course

* This course has a prerequisite not listed in the program; click on the course number for additional requirements.

Forensic Science Minor (491) (22-25 hours)

Minor for a Bachelor's Degree

Minor Requirements: 22-25 Semester Hours

Biology Major Track: 25 Semester Hours

- BIOL 2010 - Human Biology GE (3)
OR
- BIOL 3401 - Human Anatomy (3: 1 lecture, 2 lab)

- BIOL 3410 - Forensic Science (3)
- CHEM 1131 - General Chemistry I GE (5: 5 lecture, 0 lab)
- CHEM 1132 - General Chemistry II (5: 5 lecture, 0 lab)
- CJ 1000 - Introduction to Criminal Justice GE (3)
- CJ 3400 - Criminal Investigation (3)
- CJ 4302 - Evidence and Courtroom Procedure (3)

Chemistry Major Track: 22 Semester Hours

- BIOL 1110 - Principles of Biology (3)

- BIOL 2010 - Human Biology GE (3)
OR
- BIOL 3401 - Human Anatomy (3: 1 lecture, 2 lab)

- BIOL 3410 - Forensic Science (3)
- BIOL 3511 - Genetics (4: 3 lecture, 1 lab)
- CJ 1000 - Introduction to Criminal Justice GE (3)

- CJ 3400 - Criminal Investigation (3)
- CJ 4302 - Evidence and Courtroom Procedure (3)

Criminal Justice Major Track: 23 Semester Hours

Criminal Justice majors must take CJ 3400 and CJ 4302 as electives in the major.

- BIOL 1110 - Principles of Biology (3)
- BIOL 2010 - Human Biology GE (3)
OR
- BIOL 3401 - Human Anatomy (3: 1 lecture, 2 lab)
- BIOL 3410 - Forensic Science (3)
- BIOL 3511 - Genetics (4: 3 lecture, 1 lab)
- CHEM 1131 - General Chemistry I GE (5: 5 lecture, 0 lab)
- CHEM 1132 - General Chemistry II (5: 5 lecture, 0 lab)

Note:

Any student pursuing a major other than Biology, Chemistry or Criminal Justice would need to take all of the required courses for the forensic science minor.

Medical Laboratory Science, BS (43-694) (122-126 hours)

Major, Bachelor of Science Degree

The graduate with a Medical Laboratory Science 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 Laboratory Scientist (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.

Medical Laboratory Science, BS (43-694) (4 Year Guide)

Major Requirements: 60-61 Semester Hours

- BIOL 1000 - The Discipline of Biology (1)
- BIOL 2512 - Cell Biology (3)

- BIOL 3401 - Human Anatomy (3: 1 lecture, 2 lab)
- BIOL 3402 - Human Physiology (5: 4 lecture, 1 lab)
- BIOL 3413 - Immunology (3)
- BIOL 3511 - Genetics (4: 3 lecture, 1 lab)
- BIOL 3611 - Microbiology (4: 3 lecture, 1 lab)
- BIOL 4002 - Life Science Senior Seminar (1) ¹⁰
- BIOL 4311 - Parasitology (4: 2 lecture, 2 lab)
- BIOL 4514 - Molecular Biology (3)
- BIOL 4516 - Hematology/Virology (3)
- CHEM 1131 - General Chemistry I GE (5: 5 lecture, 0 lab)
- CHEM 1132 - General Chemistry II (5: 5 lecture, 0 lab)
- CHEM 3341 - Organic Chemistry I (4: 4 lecture, 0 lab)
- CHEM 3421 - Biochemistry (3)
- MATH 1111 - College Algebra GE (3)

- ACST 1300 - Basic Statistics GE (3)
OR
- PSY 3030 - Introduction to Statistics for Psychology (3)

- BIOL 1110 - Principles of Biology (3)
OR
- BIOL 1112 - Animal Biology (4: 3 lecture, 1 lab)

Medical Laboratory Science Transfer Credit: 30 Semester Hours

Transfer courses in various accredited medical technology programs may vary from hospital to hospital and 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.

Transfer credit for these courses is allowed for work taken at one of our affiliated hospitals in Kansas City (North Kansas City Hospital, Saint Luke's Hospital or K.U. in Kansas City, Kansas); in Springfield (Lester E. Cox Medical Center); in Joplin (Mercy Hospital); in Wichita (Wichita State University Medical Technology Program); in St. Louis (Mercy Hospital) 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 faculty advisor at their earliest convenience. Because of complexities of affiliation agreements and variations in clinical programs, all pertinent information cannot be presented in this catalog.

It is the student's responsibility to notify UCM of the completion of the rotations so transfer credit can be posted and the degree can be awarded.

General Education Requirements: 32-35 Semester Hours

All students must complete a minimum of 42 credit hours in general education. Some majors require additional hours due to required coursework. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major:

- MATH 1111 - College Algebra GE (3)
- CHEM 1131 - General Chemistry I GE (5: 5 lecture, 0 lab)

Minimum Total: 122-126 Semester Hours

¹⁰ Competency 10 course

Plant Identification Certificate (10-642)

The Plant Identification undergraduate certificate program is designed to help students meet professional objectives. Each course contains a significant level of the identification procedures and natural history for natural resource jobs. The student may choose to use this certificate as career preparation tool for entry into employment. A student must earn a "C" or better in the courses listed to earn this certificate.

After completion of the certificate the student will:

- Know taxonomic, morphological and genetic characteristics as related to identification and classification of plant groups.
- Use taxonomic, morphological and genetic characteristics to identify and classify plant species into hierarchical groups.
- Know, understand, and use contemporary identification and taxonomic dichotomous keys and tools used in the identification of plant species.
- Identify species and taxonomic groups of plants.

Admission Requirements

To be considered for admission to the UCM undergraduate Certificate in Plant Identification, the student must have a minimum cumulative grade point average (GPA) of 2.75 at the university level and courses equivalent to BIOL 1110 (Principles of Biology) with a grade of "C" or better.

To remain a candidate for the Certificate in Plant Identification a grade of "C" or higher must be obtained for all core and elective classes. A maximum of seven units of transfer credit may be applied toward requirements in the Certificate in Plant Identification. Courses taken toward the undergraduate certificate program may be applied to a UCM Bachelor of Science degree.

Application Process

To apply for admission for the Certificate in Plant Identification, the following items must be submitted:

1. Application for the Certificate in Plant Identification.
2. Updated curriculum vita.
3. Statement of Academic and Professional Goals: a 500-word statement summarizing how your professional and educational goals are consistent with the objectives of the Certificate in Plant Identification.

Required Courses: 19 Semester Hours

- BIOL 1111 - Plant Biology (4: 3 lecture, 1 lab)
- BIOL 2020 - General Ecology (3)
- BIOL 3709 - Dendrology (4: 3 lecture, 1 lab)
- BIOL 3711 - Plant Identification (4: 3 lecture, 1 lab)
- BIOL 4709 - Plant Ecology (4: 2 lecture, 2 lab)

Radiologic Technology, BS (43-609) (127-128 hours)

Major, Bachelor of Science Degree

Admission Policies

1. At the time of first admission to UCM, a student should indicate/declare the intent to become a Radiologic Technology major. Each declared major is encouraged to visit the program's advisor each semester.
2. Students need to have an ACT score of 24 or higher in order to enroll in both MATH 1111 and CHEM 1131 the first semester.
3. Admission to the B.S. Radiologic Technology program is in addition to university admission. Students will be admitted to the B.S. program once all admission criteria are met. Students are responsible to ensure that they have met all pre-admission criteria and have been officially admitted to the B.S. program. In addition, students will have to apply to the clinical affiliate for admission into the clinical portion of the degree.
4. Admission forms and additional information are available at ucmo.edu/biology. The student is responsible for submitting all required materials to the School of Natural Sciences in WCM 306.
5. Application information, and a student's Central Degree Audit will be reviewed and admission eligibility determined. Students must take a minimum of 30 hours at UCM to be eligible for admission to the RT program.
6. Admission to the RT program is conditional upon successful completion of a minimum of fifty semester hours, successful completion of all prerequisites necessary for admission to the first semester program and the requirements for admission listed below. Admission to the Radiologic Technology program involves competition between all eligible candidates.
7. Biology and Agriculture reserves the right to select among all qualified candidates. Students are selected in December for the following Summer/Fall semester RT consideration. Names of students admitted to the program are forwarded to the affiliates for consideration at their programs, assuming the student has also submitted an application with the affiliate, and met the affiliate's admission requirements.

Admission Criteria to the Radiologic Technology Program

1. Evidence of good moral character and ethical behavior as determined by JRCERT.org standards on their website, which also parallels the Code of Medical Ethics that medical professionals must follow.
2. Most science prerequisites (May have 2 maximum remaining to take) must be completed at the time of admission. This includes BIOL 1000, BIOL 1110, BIOL 3211, BIOL 3215, BIOL 3401, BIOL 3402, BIOL 3611, BIOL 4003, CHEM 1131, and PHYS 1101.
3. A minimum of a 2.75 cumulative grade-point average is required at the time of application.
4. Minimum grade of C in all major courses. A student receiving a grade lower than C in any course 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 two Ds and/or an F in a course or courses with a biology, chemistry, or physics prefix will not be eligible for admission into the program.
6. Students will not be permitted to withdraw from any required majors course without permission of the School of Natural Sciences. Unexcused Withdrawal (W) from a required program course constitutes withdrawal from the UCM RT program and students must seek a different degree as it would be viewed as unethical (see 1).
7. ANY outstanding courses required for the degree MUST be taken and completed the Spring semester before clinicals. Enrollment would be blocked for clinical courses and a student would be

removed from the program. Substitutions will NOT be given. A student would have to reapply to the UCM RT program, and the affiliate clinical program for the following year.

8. Students may only re-apply for the competitive admission one time.
9. Additional considerations will be given to the following:
Academic history with patterns and trends indicating potential for academic success.
Number of credit hours taken at The University of Central Missouri.
Students will be categorized in two classifications for consideration for admission to the RT program:
 1. Students who have taken all Radiologic Technology prerequisite courses at UCM; and
 2. Students who have transferred credit for one or more science prerequisite course(s) from another institution.

Grade point averages are a determining factor in selection.

Additional assessments may be required.

Affiliation Requirements

1. For admission into an affiliated program, candidates for this degree must maintain a minimum grade-point average (each affiliate establishes their own minimum GPA) based upon courses listed in the program.
2. Candidates must have a minimum grade of C or better in listed program courses.
3. Affiliates may require some courses (like College Algebra and Anatomy and Physiology) be completed within a certain timeframe for consideration of clinical application. See the individual affiliates for specifics.
4. Affiliates require candidates successfully complete a minimum number of shadowing in a diagnostic area of Radiologic Technology. See the individual affiliates for specific shadowing requirements.
5. Candidates must meet the Skills Standards and other affiliate program requirements listed in their Prospective Student Information Guide for consideration of applications.
6. Students must meet with a faculty advisor within enrolling in 15 credit hours to obtain specific course information, program and learning assessment goals, and the Prospective Student Information Guide. This helps ensure success in the program.
7. Students apply to JRCERT affiliated programs for admission. The affiliate selects students for the clinical internship program.

Graduation Policies

1. Course substitutions for program requirements may be made only by the Radiologic Technology program advisor and school chair.
2. A student may not graduate with a degree in Radiologic Technology in which the grade of record for any required coursework is an F.
3. A student must earn a grade no lower than a C in the required courses in order to graduate with a Radiologic Technology degree.
4. To graduate with a Radiologic Technology degree, a student must obtain at least a 2.75 grade-point average on a 4.00 scale for all credit hours completed at UCM or elsewhere, and attain at least a 2.75 grade-point average for all course work in the major.
5. 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. The first clinical year courses do not count as upper level courses.
6. Students are required to earn at least 50 percent of their required major credit hours for a B.S. degree at UCM.

Transfer of Credit

Transferring of credit is not advised as it will add an additional year onto the program due to residency requirements.

Upper-level (3000/4000) courses cannot generally be transferred from a two-year institution and applied to a B.S. degree. However, the school chair responsible for the UCM course may elect to allow such a transfer for equivalent credit. Before the school chair may accept the transfer course for equivalent credit, the course must be "validated" through an administered examination. Since this program barely meets the minimum requirement for upper-level hours, expect to take more courses to fulfill this requirement.

Upper-level (3000/4000) course work transferred from a four-year institution must be reviewed by the school chair before such work can be applied to a B.S. degree. The school chair may choose to apply the validation requirement to such transfers.

Students who have not enrolled in Radiologic Technology courses for two consecutive pre-clinical semesters will be dropped from the undergraduate program. If students were admitted to the RT program, these students must reapply for admission to the undergraduate program prior to enrollment in any additional courses in Radiologic Technology.

The graduate with a Radiologic Technology Major, Bachelor of Science Degree will use the knowledge and skills obtained in the program to:

- Communicate effectively in oral and written form (communicating).
- Collect, analyze and apply information to solve problems (managing information).
- Use various field and lab techniques and/or instrumentation with understanding, accuracy, precision, and safety (technology).
- Exhibit the ethical use of knowledge, materials and procedures that demonstrates an impact on society (valuing).
- Accurately integrate their knowledge of anatomy, positioning and radiographic techniques to demonstrate structures on an image or radiograph.
- Examine images for the purpose of evaluating technique, patient positioning and other pertinent technical qualities.
- Demonstrate mastery of Radiologic Technology by challenging the licensure exam of ARRT (American Registry of Radiologic Technology) after completing a clinical rotation at an affiliated hospital.

Courses in various accredited radiologic technology programs may vary from hospital to hospital.

These courses are part of the Radiologic Technology 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 Hillyard Technical Center in St. Joseph and of their associated clinical affiliates. The program is fully accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT).

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 faculty advisor at their earliest convenience. Because of complexities of affiliation agreements and variations in clinical programs, all pertinent information cannot be presented in this catalog.

Radiologic Technology, BS (43-609) (4 Year Guide)

Major Requirements: 83-84 Semester Hours

- BIOL 1000 - The Discipline of Biology (1)
- BIOL 1110 - Principles of Biology (3)
- BIOL 3000 - Cooperative Clinical (0)
- BIOL 3211 - Comparative Anatomy (4: 2 lecture, 2 lab)
- BIOL 3215 - Medical Terminology (2 or 3)
- BIOL 3401 - Human Anatomy (3: 1 lecture, 2 lab)
- BIOL 3402 - Human Physiology (5: 4 lecture, 1 lab)
- BIOL 3500 - Cooperative Clinical II (0)
- BIOL 3611 - Microbiology (4: 3 lecture, 1 lab)
- BIOL 4003 - Radiologic Technology Senior Seminar (1) ¹⁰
- BIOL 4100 - Cooperative Clinical III (0)
- BIOL 4500 - Cooperative Clinical IV (0)

Note:

Admission and fees for the affiliate portion of this program are the prerogative of the affiliate 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 affiliate.

For additional information on this program and for entry into affiliate programs, students are urged to see the program faculty advisor at their earliest convenience. Because of complexities of affiliation agreements and variations in programs, all pertinent information cannot be presented in this catalog.

The last 2 years are clinical rotations are spent at the affiliates and their sites. Students are no longer on campus and are not considered UCM students. Affiliation agreements include the 30 hours of transfer credit for each year that articulate to UCM.

Clinical Credits: 30 Semester Hours

Radiologic Technology Special Credit: 30 Semester Hours

It is the student's responsibility to notify UCM upon completion of the clinical rotations so transfer credit can be posted and the degree can be awarded. A maximum of 10 hours of upper level credit can be awarded for the rotations.

General Education Requirements: 44 Semester Hours

All students must complete a minimum of 42 credit hours in general education. Some majors require additional hours due to required coursework. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major:

- CHEM 1131 - General Chemistry I GE (5: 5 lecture, 0 lab)
- COMM 1000 - Public Speaking GE (3)
- COMM 3000 - Film Appreciation GE (3)
- ENGL 1020 - Composition I GE (3)
- ENGL 1030 - Composition II GE (3)
- MATH 1111 - College Algebra GE (3)
- PHIL 2300 - Ethics GE (3)
- PHYS 1101 - College Physics I GE (4: 4 lecture, 0 lab)

- PSY 1100 - General Psychology GE (3)
- SOC 1800 - General Sociology GE (3)

Minimum Total: 127-128 Semester Hours

¹⁰ Competency 10 course

School of Nursing

<https://www.ucmo.edu/nursing/>

The School of Nursing
 Dockery 203
 660-543-4775
ucmo.edu/nursing

The School of Nursing Statement of Policy

Program

UCM's School of Nursing offers a Bachelor of Science in Nursing. The nursing program is unique with its focus on rural nursing practice in smaller community and suburban hospitals in the junior year and urban nursing practice in the senior year.

Accreditation

The nursing program is fully approved by the Missouri State Board of Nursing and nationally accredited by the Commission on Collegiate Nursing Education. Contact numbers for the Nursing Schools's accrediting agencies are: Missouri State Board (573) 751-0681; Commission on Collegiate Nursing Education (202) 463-6930. The Commission on Collegiate Nursing Education is located at 655 K Street, NW, Suite 750, Washington, DC 20001.

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:

- Demonstrate caring and goal directed relationships with all members of the health care team including patients/clients and their support systems.
- Demonstrate use of data and technology to monitor outcomes, promote safety, and continuously improve patient centered care and health care systems.
- 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. (See handbook for more.)
- Actively engage in interaction based on mutual respect with collaboration toward goal achievement.
- Internalize and demonstrate ethically grounded behaviors reflective of the ANA *Nursing's Social Policy Statement, Scope and Standards of Practice* (2010) and ANA *Code of Ethics for Nurses* (2015).

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 School of Nursing reserves the right to select among all qualified candidates. Students are selected in March for Fall semester nursing classes and in October for Spring. The necessary application is

available through MyCentral and the student is responsible for submitting all hard copy materials to the School 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* (2015).
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 2.75 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 School of Nursing.
7. Science prerequisites, as identified in NURSING Major, Bachelor of Science Degree, must have been taken within 10 years of requested semester admission.
8. Applicants for the nursing program must have completed the university GEA requirement (score 425) and must achieve a "mastery level score" (based on percentile) on the designated nursing admission examination.
9. Completion of additional requirements such as speech and hearing exam, assessment(s), etc. at the time of application deadline. The student is responsible for making sure all materials are submitted in MyCentral and to the School of Nursing.
10. Nursing applications are completed online and a \$30 application fee applies. January 1 is the deadline for Fall Admission to the nursing program and July 1 is the deadline for Spring Admission to the nursing program. Additional forms are to be supplied to the School of Nursing by the application deadline.
11. Official transcripts-it is the student's responsibility to request ALL official transcripts from other universities and colleges be submitted to the Admissions Office 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. Required immunizations, a satisfactory background check, CPR for healthcare providers, and a drug screen must be complete and validated before the first day of clinical.
13. 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 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:
 1. Students who have taken all nursing prerequisite courses at UCM; and
 2. Students who have transferred credit for one or more nursing prerequisite course(s) from another institution.

Nursing prerequisite courses are CHEM 1104, BIOL 3401, BIOL 3402, BIOL 3610, PSY 1100, SOC 1800, D&N 3340, NUR 1700, NUR 2710, and NUR 3200. 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 given the opportunity of direct admission to the nursing program:

1. Admitted to UCM as freshmen with ACT 24 or higher (students entering the nursing program fall 2021 or later will need an ACT 25 or higher) and a high school CGPA of 3.00.
 2. Declared nursing as a major.
 3. Maintains a 3.50 cumulative grade point average (students entering the nursing program fall 2021 or later will need to maintain a 3.65 cumulative grade point average) at UCM at the time of application review.
 4. Achieves a "mastery level score" (based on percentile) on the designated nursing admission examination.
 5. Meet criteria published in the UCM undergraduate catalog and School of Nursing Undergraduate Handbook as of the date of formal application.
- Direct admission is limited to 40 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 place in the nursing program if he/she falls below the specified standards.
 - Students must complete all prerequisites successfully on their first attempt.

Student Veteran Policy:

For students who are U.S. Military Veterans, transfer credits for military courses, based on the recommendation of the American Council on Education (ACE)'s Guide to the Evaluation of Education Experiences in the Armed Services, will be considered when evaluating nursing prerequisites courses and student's overall GPA. Elective and/or direct course credit will be awarded based on ACE recommendations.

To be eligible for Student Veteran consideration for admission to the nursing program, the student must:

- Be admitted to the University of Central Missouri.
- Meet the criteria for admission to the undergraduate nursing program, allowing consideration of military transfer credits.
- Be honorably discharged from the U.S. armed forces.
- Submit acceptable forms of documentation such as: CCAF Transcript (Community College of the Air Force Transcript) JST Transcript (Joint Service Transcript - Army, Navy, Marines).

Special Expenses

1. Additional expenses for nursing majors include: uniforms, shoes, picture ID badge, watch with second hand, stethoscope, sphygmomanometer, health insurance, background check, drug screen, vaccinations and blood tests, selected books and testing expenses. Testing experiences apply across the entire nursing program.
2. Nursing students must have access to transportation upon admission to the nursing program.
3. Nursing students must be certified in 2-person cardiopulmonary resuscitation for health care providers according to CNE orientation manual.
4. During the semester of anticipated graduation, licensing expenses, university graduation expenses, invitations, and more are additional expenses.

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 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 speech/hearing exam, background check and drug screen.

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. Following admission to the nursing program, the student will follow the typical 4-year program for class enrollment. The courses in each semester are designed to be taken concurrently. Any changes in the courses taken must receive approval from the school chair prior to modifying enrollment.
2. A student must make a minimum grade of C in all nursing courses to progress in the nursing program.
3. 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. Requirements for retention to the program are all contained in the current Undergraduate Student Handbook for the School of Nursing.
4. A student receiving two NUR failures in one semester is ineligible to continue in the program. A didactic and its associated clinical would count as one failure.
5. Students who withdraw from the nursing program must follow the Nursing School's **Withdrawal Policy** contained herein and compete with other students for retention into the program.
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 School's Retention Policy in order to be retained. Students who

withdraw from a nursing course and do not follow the requirements of the Nursing School 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 retained 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 School 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 (3000/4000) 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 School of Nursing policy.
3. Evaluation of each transfer student will be made within the School of Nursing on an individual basis.
4. Students will take a minimum of 30 semester hours of upper-level courses, with a minimum of 30 semester hours in the nursing major at UCM.
5. Students will apply for admission to the School 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,
 1. If content is basically the same, the Nursing School 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.
 2. If the content is fairly similar, the School of Nursing Transfer Committee may approve credit and in addition require NUR 4000 - Special Projects in Nursing (1-3) (2-6 credits).
 3. Only discrete courses in the content areas of research and ethics, pharmacology and observation and assessment will be considered for transfer as meeting the 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 School of Nursing stating they are a student in good standing.
7. All prospective transfer students will be interviewed by the school Chairperson.

RN-BS in Nursing Option 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 School of Nursing to determine placement in the program.
4. Students will take a minimum of 30 semester hours of upper-level (3000/4000) courses, with a minimum of 30 semester hours in the nursing major through UCM.
5. Students will apply for admission to the School of Nursing and be subject to the regular program admission policy. In addition, the following criteria will be followed:
 1. Applicants must have a current unencumbered RN license eligible to practice nursing.
 2. 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.

Nursing - Generic Option, BS (43-133) (120-121 hours)

Generic Option, Bachelor of Science Degree

Nursing, BS (43-133) (4 Year Guide)

Policies

Major Requirements: 78-79 Semester Hours

Students must receive a grade of C or better in order for the courses to count toward the major.

- NUR 1700 - Introduction to Professional Nursing (1)
- NUR 2710 - Introduction to Nursing Applications Across the Lifespan (1)
- NUR 3200 - Pathophysiology (4)
- NUR 3210 - Pharmacological Therapies (3)
- NUR 3306 - Assessment Across the Lifespan (2)
- NUR 3307 - Assessment and Fundamentals Lab (2)
- NUR 3410 - Concepts of Nursing in Health Promotion & Wellness (2)
- NUR 3515 - Fundamentals of Nursing (2)
- NUR 3516 - Fundamentals of Nursing Practicum (3)
- NUR 3610 - Concepts of Adult and Older Adult Nursing I (3)
- NUR 3611 - Concepts of Adult and Older Adult Nursing I Practicum (3)
- NUR 3612 - Technical Nursing Skills Lab (2)
- NUR 3710 - Mental Health Nursing (2)
- NUR 4012 - Evidence-based Practice/Research (2)
- NUR 4013 - Health Policy and Nursing Ethics (2)
- NUR 4111 - Socio-Economic Factors Impacting Health (3) ¹⁰
- NUR 4410 - Concepts of Maternal-Child Nursing (3)
- NUR 4411 - Concepts of Maternal-Child Nursing Practicum (2)
- NUR 4510 - Concepts of Adult and Older Adult Nursing II (3)
- NUR 4511 - Concepts of Adult and Older Adult Nursing II Practicum (3)
- NUR 4512 - Advanced Pharmacology & Technical Nursing Skills Lab (2)
- NUR 4602 - Synthesis of Nursing Concepts (2)
- NUR 4610 - Population Health (3)
- NUR 4611 - Population Health Practicum (3)

- NUR 4710 - Leadership/Care Management (2)
- NUR 4711 - Capstone (3)
- BIOL 3401 - Human Anatomy (3: 1 lecture, 2 lab)
- BIOL 3402 - Human Physiology (5: 4 lecture, 1 lab)
- BIOL 3610 - Basic Microbiology (3)
- D&N 3340 - Nutrition (3)

Elective from the Following: 2-3 Semester Hours

- NUR 2000 - e-Health and Cyber Wellness (2)
- NUR 2020 - Health: The Women's Perspective (2)
- NUR 4020 - Grief and Loss (2)
- NUR 4030 - Human Sexuality (2)
- NUR 4040 - Nursing Informatics (2)
- NUR 4210 - Wellness for U.S. Veterans and Military Families (2)
- NUR 4405 - Aging of Self and Others (2)

General Education Requirements: 42 Semester Hours

All students must complete a minimum of 42 credits hours in general education. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major:

- ACST 1300 - Basic Statistics GE (3)
- CHEM 1104 - Introduction to the Sciences: Chemistry GE (4: 4 lecture, 0 lab)
- MATH 1111 - College Algebra GE (3)
- NUR 2200 - Culture and Sustainability in Health GE (3)
- PSY 1100 - General Psychology GE (3)
- SOC 1800 - General Sociology GE (3)

Minimum Total: 120-121 Semester Hours

¹⁰ Competency 10 course

Nursing - RN-BS Nursing Option, BS (43-288) (120 hours)

RN-BS Nursing Option, Bachelor of Science Degree

Nursing, BS (43-133) (4 Year Guide)

Policies

Major Requirements: 44-48 Semester Hours

Students must receive a grade of C or better in order for the courses to count toward the major.

- NUR 4010 - RN-BS Health and Physical Assessment (3)

- NUR 4015 - RN-BS Evidence Based Practice/Research (2)
- NUR 4050 - RN-BS Professional Nursing Dimensions and Perspectives (4)
- NUR 4052 - RN-BS Concepts of Wellness (3)
- NUR 4111 - Socio-Economic Factors Impacting Health (3) ¹⁰
- NUR 4200 - RN-BS Pathophysiology (3)
- NUR 4406 - RN-BS Concepts of Community Health Nursing (3)
- NUR 4407 - RN-BS Concepts of Community Health Nursing Practicum (2)
- NUR 4608 - RN-BS Concepts of Nursing Leadership in Management (4)
- NUR 4609 - RN-BS Concepts of Nursing Leadership in Management Practicum (1)
- BIOL 3401 - Human Anatomy (3: 1 lecture, 2 lab)
- BIOL 3402 - Human Physiology (5: 4 lecture, 1 lab)
- BIOL 3610 - Basic Microbiology (3)
- D&N 3340 - Nutrition (3)

Nursing Elective from the Following: 2-6 Semester Hours

- NUR 4020 - Grief and Loss (2)
- NUR 4030 - Human Sexuality (2)
- NUR 4040 - Nursing Informatics (2)
- NUR 4210 - Wellness for U.S. Veterans and Military Families (2)
- NUR 4405 - Aging of Self and Others (2)

General Education Requirements: 42 Semester Hours

All students must complete a minimum of 42 credit hours in general education. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major:

- CHEM 1104 - Introduction to the Sciences: Chemistry GE (4: 4 lecture, 0 lab)
- PSY 1100 - General Psychology GE (3)
- SOC 1800 - General Sociology GE (3)

Transfer Hours: 30-34 Semester Hours

Free Electives: 0-4 Semester Hours

Minimum Total: 120 Semester Hours

¹⁰ Competency 10 course

School of Nutrition, Kinesiology and Psychological Science

School of Nutrition, Kinesiology, and Psychological Science

Morrow 125

660-543-4256

ucmo.edu/snkps

Applied Behavior Analysis Certificate (10-884) (24 hours)

Certificate

After completion of the certificate courses the student will be able to:

- Describe the critical characteristics of applied behavior analysis (ABA).
- Describe and apply research methods used in ABA.
- Describe and apply principles of behavior used to address socially significant behaviors.
- Describe and apply behavioral assessment procedures, including functional assessment of behavior.
- Graph, visually analyze and interpret behavioral data.
- Describe ethical issues related to ABA and possible solutions to ethical dilemmas.

Admission Requirements

To be considered for admission to the UCM undergraduate Certificate in Applied Behavior Analysis (ABA), the student must have a minimum cumulative grade point average (GPA) of 2.75 at the university level, including one college-level English composition course and General psychology course, each with a grade of B or better. Non-degree and students already admitted to a Bachelor of Science or Bachelor of Arts degree may apply for receipt of the Certificate in Applied Behavior Analysis.

To remain a candidate for the Certificate in ABA a grade of "B" or higher must be obtained for all core and elective classes. The practicum must be completed with a "Satisfactory" grade. A maximum of 6 units of transfer credits for elective courses may be applied toward the Certificate in Applied Behavior Analysis. Courses taken toward the undergraduate certificate program may be applied to a UCM Bachelor of Science or Arts degree as a general elective or major elective course.

Application Process

To apply for admission for the Certificate in Applied Behavior Analysis, the following items must be submitted:

1. Application for the Certificate in ABA.
2. Updated curriculum vita.
3. Statement of Academic and Professional Goals: a 500-word statement summarizing how your professional and educational goals are consistent with the objectives of the Certificate in ABA.

Required Courses: 24 Semester Hours

- PSY 1100 - General Psychology GE (3)
- PSY 2130 - Learning (3)
- PSY 3010 - Introduction to Applied Behavior Analysis (4)
- PSY 4200 - Applied Behavior Analysis With Children and Youth (4)
- PSY 4730 - Cognitive and Behavioral Intervention (4)
- PSY 4750 - Field Experience in Applied Behavior Analysis (1-3)

Elective from the Following: 3 Semester Hours

- PSY 2220 - Child and Adolescent Psychological Development (3)
- PSY 3220 - Life-Span Development (3)
- PSY 4140 - Psychology of Human Sexuality (3)
- PSY 4230 - Psychology of Adolescence GE (3)
- PSY 4240 - Psychology of Aging (3)
- PSY 4440 - Abnormal Psychology (3)
- PSY 4540 - Introduction to Counseling Psychology (3)

Dietetics, BS (43-274) (120 hours)

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 Academy of Nutrition and Dietetics.

Admission Requirements: Program Policy:

Students admitted into the University of Central Missouri should declare as pre-dietetics majors. Formal admission to the Dietetics degree program is conditional upon completion of the four following courses with a cumulative GPA of 3.0 or better in all the four courses (additionally, a minimum of a C or better must be achieved in each course): BIOL 3401, BIOL 3402, D&N 3340, FOOD 2322.

The graduate with a Bachelor of Science degree in Dietetics will qualify to apply for a post-baccalaureate internship program. Student outcome goals:

- Utilize current knowledge, technology, and research to enhance the practice of nutrition and dietetics.
- Practice of nutrition care process utilizing knowledge and skills of nutritional assessment, diagnosis intervention, monitoring and evaluation.
- 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.
- Participate in activities that promote public awareness of nutrition and advance the profession of nutrition and dietetics.
- Application of principles of management and systems in the provision of services to individuals and organizations.

Dietetics Major, BS (43-274) (4 Year Guide)

Major Requirements: 57 Semester Hours

Must have C or better for these courses.

- FOOD 2320 - Sanitation and Safety (1)
- FOOD 2322 - Food Preparation (3: 2 lecture, 1 lab)
- FOOD 3332 - Quantity Food Production and Service (3: 2 lecture, 1 lab)
- FOOD 3334 - Advanced Food Systems Management (4)
- FOOD 4326 - Experimental Foods (3: 2 lecture, 1 lab)
- 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 4344 - Nutrition Education and Counseling (2)
- D&N 4345 - Senior Dietetics Seminar* (3) ¹⁰
- BIOL 3401 - Human Anatomy (3: 1 lecture, 2 lab)
- BIOL 3402 - Human Physiology (5: 4 lecture, 1 lab)
- BIOL 3611 - Microbiology (4: 3 lecture, 1 lab)
- CHEM 1604 - Elementary Organic and Biochemistry (4: 4 lecture, 0 lab)
- ACCT 2100 - Survey of Accounting (3)
- PSY 3030 - Introduction to Statistics for Psychology (3)

General Education Requirements: 42 Semester Hours

All students must complete a minimum of 42 credit hours in general education. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major. Must have C or better for these courses:

- BIOL 2510 - Basic Genetics GE (3)
- CHEM 1104 - Introduction to the Sciences: Chemistry GE (4: 4 lecture, 0 lab)
- COMM 1000 - Public Speaking GE (3)
- CTE 3060 - Technical Writing GE (3)
- MATH 1111 - College Algebra GE (3)
- PSY 1100 - General Psychology GE (3)
- SOC 1800 - General Sociology GE (3)

Free Electives: 21 Semester Hours

Minimum Total: 120 Semester Hours

¹⁰ Competency 10 course

Fitness/Wellness Minor (841) (24 hours)

Minor for a Bachelor's Degree

UCM does not confer teacher certification for this minor.

Minor Requirements: 24 Semester Hours

- AT 3610 - Care and Prevention of Injuries (3)
- KIN 1206 - Fitness for a Global Community GE (3)
- KIN 1800 - Functional Anatomy (3)
- KIN 2800 - Biomechanics (3)
- KIN 2850 - Foundations of Exercise Physiology (3)

- KIN 2900 - Essentials of Personal Training (3)
- KIN 3850 - Assessment and Evaluation of Fitness/Wellness (3)
- PE 4340 - Adapted Physical Education (3)
- OR
- KIN 4341 - Physical Activity and Special Populations (3)

Foods Minor (124) (21 hours)

Minor for a Bachelor's Degree

UCM does not confer teacher certification for this minor.

Minor Requirements: 21 Semester Hours

- FOOD 2320 - Sanitation and Safety (1)
- FOOD 2322 - Food Preparation (3: 2 lecture, 1 lab) *
- FOOD 3332 - Quantity Food Production and Service (3: 2 lecture, 1 lab)
- FOOD 3334 - Advanced Food Systems Management (4)
- ACCT 2100 - Survey of Accounting (3)
- AGRI 3415 - Meat Science (2: 1 lecture, 1 lab)
- D&N 3340 - Nutrition (3) *

Note:

*This course has a prerequisite not listed in the program; click on the course number for additional requirements.

Health Education Minor (BSE) (804) (23 hours)

Minor, Bachelor of Science in Education Degree

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.

Minor Requirements: 23 Semester Hours

- HLTH 1100 - Personal Health GE (3)
- HLTH 1350 - Responding to Emergencies (3)
- HLTH 3360 - Methods in Secondary School Health (2) *
- HLTH 4310 - Drugs: Addiction to Recovery (3)
- KIN 1800 - Functional Anatomy (3)
- KIN 2850 - Foundations of Exercise Physiology (3)
- PSY 4230 - Psychology of Adolescence GE (3)

- HLTH 1200 - Applied Nutrition for Healthy Living GE (3)
- OR**
- NUTR 4300 - Nutrition and Human Performance (3)

Note:

*This course has a prerequisite not listed in the program; see specific class listing in the catalog for additional requirements.

Health Studies, BS (43-330) (120 hours)

Major, Bachelor of Science Degree

UCM Health Studies prepares students to promote healthy behaviors with an interdisciplinary perspective in corporate settings, communities, and clinics.

By integrating health courses with business, psychology, criminal justice, nutrition, etc., Health Studies allows students to blend health and well-being into value-added research and education. Upon graduation, students are prepared for careers in community or workplace health with the option to pursue graduate school. In addition to the degree, students are eligible to register for the Certified Health Education Specialist certification and could earn a minor or certificate at no additional cost.

The graduate with a Bachelor of Science degree in Health Studies will:

- Appraise personal health practices and professional health initiatives, uses goal-directed communication to incorporate various perspectives, media, and stakeholders.
- Apply knowledge of health and wellbeing theories, disease processes, factors impacting human health, and health disparities to the logical implementation of safe, goal-directed health initiatives.
- Apply program processes to implement and improve organizational and community initiatives; using research and data to describe, evaluate, and enhance population well-being.
- Examine ethical, economic, and regulatory dimensions of global health care, health programming, and public health policy.

Health Studies, BS (43-330) (4 Year Guide)

Major Requirements: 75-76 Semester Hours

A grade of "C" or better is required for Major courses.

- BIOL 3215 - Medical Terminology (2 or 3) (3)
- BIOL 3401 - Human Anatomy (3: 1 lecture, 2 lab)
- BIOL 3402 - Human Physiology (5: 4 lecture, 1 lab)
- COMM 3010 - Interpersonal Communication (3)
- D&N 3340 - Nutrition (3)
- D&N 3350 - Community Nutrition (3)
- HLTH 1010 - Introduction to Health Studies (1)
- HLTH 1100 - Personal Health GE (3)
- HLTH 1200 - Applied Nutrition for Healthy Living GE (3)
- HLTH 2400 - Community Health Education (3)
- HLTH 3300 - Health Behavioral Theory (3)
- HLTH 3350 - Introduction to Epidemiology and Population Health (3)
- HLTH 3400 - Health Program Planning and Evaluation (3)
- HLTH 4310 - Drugs: Addiction to Recovery (3)
- HLTH 4370 - Pathophysiology (3)
- HLTH 4410 - Health Program Implementation and Logistics (3)
- HLTH 4420 - U.S. Health Policy, Advocacy and Ethics (3)
- HLTH 4450 - Global Health (2)
- HLTH 4765 - Internship (6) ¹⁰
- PSY 3220 - Life-Span Development (3)
- PSY 1100 - General Psychology GE (3)
- PSY 3030 - Introduction to Statistics for Psychology (3)
- PSY 3100 - Research Methods (3)

- CHEM 1104 - Introduction to the Sciences: Chemistry GE (4: 4 lecture, 0 lab)
OR
- CHEM 1131 - General Chemistry I GE (5: 5 lecture, 0 lab)

Approved Electives: 9 Semester Hours

Approved electives require approval from the Health Studies program which result in a minor, certificate or prepare students for a certification or graduate school program.

A grade of "C" or better is required for Approved Electives.

General Education Requirements: 32-33 Semester Hours

All students must complete a minimum of 42 credit hours in general education. Some majors require additional hours due to required coursework. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major:

Must have a C or better for courses that are also required in the Health Studies major requirements.

- HLTH 1100 - Personal Health GE (3)
- PSY 1100 - General Psychology GE (3)

- CHEM 1104 - Introduction to the Sciences: Chemistry GE (4: 4 lecture, 0 lab)

OR

- CHEM 1131 - General Chemistry I GE (5: 5 lecture, 0 lab)

Free Electives: 2-4 Semester Hours

Minimum Total: 120 Semester Hours

¹⁰Competency 10 course

Kinesiology, BS (43-671) (120 hours)

Major, Bachelor of Science Degree

The graduate with a Bachelor of Science degree with a major in Kinesiology will:

- Describe and demonstrate a strong foundational knowledge in functional anatomy, exercise physiology, biomechanics, fitness assessment, and implementation necessary to effectively work in the field of choice or enter a graduate program.
- Demonstrate and apply knowledge of the major concepts, empirical findings, and current trends in the area of Kinesiology to assist individuals with varying needs and diverse populations.
- Assemble actively-learned Kinesiology-related skills for application in real-world problems through internships, primary research, service learning, and/or field experiences.
- Evaluate authentic occupational, career, and advanced educational opportunities appropriate to the Kinesiology area and develop a feasible plan to pursue those aspirations.

Kinesiology, BS (43-671) (Area 1: Exercise Science) (4 Year Guide)

Kinesiology, BS (43-671) (Area 2: Corporate Fitness) (4 Year Guide)

Kinesiology, BS (43-671) (Area 3: Pre-Athletic Training) (4 Year Guide)

Kinesiology, BS (43-671) (Area 4: Pre-Occupational Therapy) (4 Year Guide)

Kinesiology, BS (43-671) (Area 5: Pre-Physical Therapy) (4 Year Guide)

Major Requirements: 67-79 Semester Hours

Core: 44 Semester Hours

- BIOL 3401 - Human Anatomy (3: 1 lecture, 2 lab)
- BIOL 3402 - Human Physiology (5: 4 lecture, 1 lab)
- D&N 3340 - Nutrition (3)
- KIN 1101 - Introduction to Kinesiology (3)
- KIN 1800 - Functional Anatomy (3)
- KIN 2800 - Biomechanics (3)
- KIN 2850 - Foundations of Exercise Physiology (3)
- KIN 3850 - Assessment and Evaluation of Fitness/Wellness (3)
- KIN 4341 - Physical Activity and Special Populations (3)
- KIN 4870 - Applied Exercise Physiology (3)

- PE 2455 - Growth and Motor Development (3)
- PSY 3030 - Introduction to Statistics for Psychology (3)
- KIN 4765 - Internship (6) ¹⁰

Elect One of the 5 Areas: 23-37 Semester Hours

Area 1 - Exercise Science: 23 Semester Hours (KN01)

- AT 3610 - Care and Prevention of Injuries (3)
- CHEM 1104 - Introduction to the Sciences: Chemistry GE (4: 4 lecture, 0 lab)
- HLTH 4370 - Pathophysiology (3)
- KIN 1206 - Fitness for a Global Community GE (3)
- KIN 2900 - Essentials of Personal Training (3)
- KIN 4860 - Fitness Programming and Implementation (3)
- PHYS 1104 - Introduction to the Sciences: Physics GE (4: 4 lecture, 0 lab)

Area 2 - Corporate Fitness: 35 Semester Hours (KN02)

- ACCT 1101 - Foundations of Financial Reporting (3)
- BLAW 2720 - Legal Environment of Business (3)
- CHEM 1104 - Introduction to the Sciences: Chemistry GE (4: 4 lecture, 0 lab)
- CIS 1600 - Business Information Management GE (3)
- ECON 1010 - Principles of Macroeconomics GE (3)
- KIN 1206 - Fitness for a Global Community GE (3)
- KIN 2900 - Essentials of Personal Training (3)
- KIN 4860 - Fitness Programming and Implementation (3)
- MGT 3315 - Management of Organizations (3)
- MKT 3405 - Principles of Marketing (3)
- PHYS 1104 - Introduction to the Sciences: Physics GE (4: 4 lecture, 0 lab)

Area 3 - Pre-Athletic Training: 33 Semester Hours (KN03)

- AT 3610 - Care and Prevention of Injuries (3)
- BIOL 1112 - Animal Biology (4: 3 lecture, 1 lab)
- CHEM 1104 - Introduction to the Sciences: Chemistry GE (4: 4 lecture, 0 lab)
- HLTH 1100 - Personal Health GE (3)
- HLTH 4370 - Pathophysiology (3)
- KIN 2900 - Essentials of Personal Training (3)
- KIN 4860 - Fitness Programming and Implementation (3)
- PHIL 2300 - Ethics GE (3)
- PHYS 1104 - Introduction to the Sciences: Physics GE (4: 4 lecture, 0 lab)
- PSY 3220 - Life-Span Development (3)

Area 4 - Pre-Occupational Therapy: 27 Semester Hours (KN04)

- BIOL 1112 - Animal Biology (4: 3 lecture, 1 lab)

- BIOL 3215 - Medical Terminology (2 or 3)
- CHEM 1104 - Introduction to the Sciences: Chemistry GE (4: 4 lecture, 0 lab)
- HLTH 4370 - Pathophysiology (3)
- PHIL 2300 - Ethics GE (3)
- PHYS 1104 - Introduction to the Sciences: Physics GE (4: 4 lecture, 0 lab)
- PSY 3220 - Life-Span Development (3)
- PSY 4440 - Abnormal Psychology (3)

Area 5 - Pre-Physical Therapy: 37 Semester Hours (KN05)

- BIOL 3215 - Medical Terminology (2 or 3)
- BIOL 1112 - Animal Biology (4: 3 lecture, 1 lab)
- CHEM 1131 - General Chemistry I GE (5: 5 lecture, 0 lab)
- CHEM 1132 - General Chemistry II (5: 5 lecture, 0 lab)
- HLTH 4370 - Pathophysiology (3)
- PHIL 2300 - Ethics GE (3)
- PHYS 1101 - College Physics I GE (4: 4 lecture, 0 lab)
- PHYS 1102 - College Physics II (4: 4 lecture, 0 lab)
- PSY 4440 - Abnormal Psychology (3)
- PSY 3220 - Life-Span Development (3)

General Education Requirements: 27-32 Semester Hours

All students must complete a minimum of 42 credit hours in general education. See The General Education Program Requirements for full listing of requirements. The following general education classes are either required or listed as a major option elective by this major:

- CHEM 1104 - Introduction to the Sciences: Chemistry GE (4: 4 lecture, 0 lab) (Areas 1, 2, 3, 4)
- CHEM 1131 - General Chemistry I GE (5: 5 lecture, 0 lab) (Area 5)
- CIS 1600 - Business Information Management GE (3) (Area 2)
- ECON 1010 - Principles of Macroeconomics GE (3) (Area 2)
- KIN 1206 - Fitness for a Global Community GE (3) (Areas 1, 2)
- MATH 1111 - College Algebra GE (3) (All Areas)
- PHIL 2300 - Ethics GE (3) (Areas 3, 4, 5)
- PHYS 1101 - College Physics I GE (4: 4 lecture, 0 lab) (Area 5)
- PHYS 1104 - Introduction to the Sciences: Physics GE (4: 4 lecture, 0 lab) (Areas 1, 2, 3, 4)
- PSY 1100 - General Psychology GE (3) (All Areas)

Free Electives: 7-21 Semester Hours

Area 1: 21 Sem. Hours

Area 2: 14 Sem. Hours

Area 3: 11 Sem. Hours

Area 4: 17 Sem. Hours

Area 5: 7 Sem. Hours

Minimum Total: 120 Semester Hours

¹⁰ Competency 10 course

Psychology Minor (748) (21 hours)

Minor for a Bachelor's Degree

UCM does not confer teacher certification for this minor.

Minor Requirements: 21 Semester Hours

- PSY 1100 - General Psychology GE (3)
- Electives in Psychology (18) **

Note:

** Must include at least one upper-level (3000/4000) course to meet graduation requirements.

Psychology, BA (42-746) (120 hours)

Major, Bachelor of Arts Degree

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

- Demonstrate fundamental knowledge and comprehension of the major concepts, theoretical perspectives, historical trends, and empirical findings to discuss how psychological principles apply to behavioral problems.
- Demonstrate knowledge of scientific reasoning and problem solving, including effective research methods.
- Demonstrate knowledge of legal and ethical behavior in research and applied settings. Students should demonstrate knowledge of individual differences and the complexity of sociocultural and international diversity.
- Demonstrate competence in writing and in oral and interpersonal communication skills.
- Demonstrate knowledge about realistic occupational, career, and advanced educational opportunities appropriate to the discipline and develop a feasible plan to pursue those opportunities.

To be admitted to the B.A. in Psychology program, the student must have completed 30 hours with a 2.60 or higher cumulative GPA or have completed PSY 2130 and either PSY 2120 or PSY 3100 with a grade of C or better in both required courses.

Psychology, BA (42-746) (Choice 1) (4 Year Guide)

Psychology, BA (42-746) (Choice 2) (4 Year Guide)

Psychology, BA (42-746) (Choice 3) (4 Year Guide)

Psychology, BA (42-746) (Choice 4) (4 Year Guide)

Major Requirements: 34-37 Semester Hours

- PSY 1000 - Orientation to Psychology (1)
- PSY 1100 - General Psychology GE (3)
- PSY 2130 - Learning (3)
- PSY 3220 - Life-Span Development (3)
- PSY 3340 - Social Psychology (3)
- PSY 4110 - History of Psychology (3) ¹⁰
- PSY 4150 - Cognitive Psychology (3)
- PSY 4310 - Theories of Personality (3)
- PSY 4440 - Abnormal Psychology (3)

Select 1 Group of Classes from the Following Choices: 9-12 Semester Hours

Choice 1: 9 Hrs

- PSY 3030 - Introduction to Statistics for Psychology (3)
- PSY 3100 - Research Methods (3)
- PSY 3120 - Brain and Behavior (3)

Choice 2: 10 Hrs

- PSY 3100 - Research Methods (3)
- PSY 3130 - Physiological Psychology (4: 4 lecture, 0 lab)
- PSY 3030 - Introduction to Statistics for Psychology (3)

Choice 3: 11 Hrs

- PSY 2110 - Research Design and Analysis I (4: 4 lecture, 0 lab)
- PSY 2120 - Research Design and Analysis II (4: 4 lecture, 0 lab)
- PSY 3120 - Brain and Behavior (3)

Choice 4: 12 Hrs

(Recommended for students planning to attend graduate school)

- PSY 2110 - Research Design and Analysis I (4: 4 lecture, 0 lab)
- PSY 2120 - Research Design and Analysis II (4: 4 lecture, 0 lab)
- PSY 3130 - Physiological Psychology (4: 4 lecture, 0 lab)

General Education Requirements: 36 Semester Hours

All students must complete a minimum of 42 credit hours in general education. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major:

- PSY 1100 - General Psychology GE (3)
- Modern Language GE (3)

Modern Language Requirement: 6-9 Semester Hours

Refer to Bachelor's Degree Requirements section for fulfillment options.

Upper-Level (3000/4000) Electives: 0-12 Semester Hours

(depending on choices made in major electives and general education)

Free Electives: 26-32 Semester Hours

Minimum Total: 120 Semester Hours

¹⁰ Competency 10 course

Psychology, BS (43-747) (120 hours)

Major, Bachelor of Science Degree

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

- Demonstrate fundamental knowledge and comprehension of the major concepts, theoretical perspectives, historical trends, and empirical findings to discuss how psychological principles apply to behavioral problems.
- Demonstrate knowledge of scientific reasoning and problem solving, including effective research methods.
- Demonstrate knowledge of legal and ethical behavior in research and applied settings. Students should demonstrate knowledge of individual differences and the complexity of sociocultural and international diversity.
- Demonstrate competence in writing and in oral and interpersonal communication skills.
- Demonstrate knowledge about realistic occupational, career, and advanced educational opportunities appropriate to the discipline and develop a feasible plan to pursue those opportunities.

To be admitted to the B.S. in Psychology program, the student must have completed 30 hours with a 2.60 or higher cumulative GPA or have completed PSY 2120 and PSY 2130 with a grade of C or better in each course.

Psychology, BS (43-747) (4 Year Guide)

Major Requirements: 46 Semester Hours

- PSY 1000 - Orientation to Psychology (1)
- PSY 1100 - General Psychology GE (3)
- PSY 2110 - Research Design and Analysis I (4: 4 lecture, 0 lab)
- PSY 2120 - Research Design and Analysis II (4: 4 lecture, 0 lab)
- PSY 2130 - Learning (3)
- PSY 3130 - Physiological Psychology (4: 4 lecture, 0 lab)
- PSY 3220 - Life-Span Development (3)
- PSY 3340 - Social Psychology (3)
- PSY 4110 - History of Psychology (3) ¹⁰
- PSY 4150 - Cognitive Psychology (3)
- PSY 4310 - Theories of Personality (3)
- PSY 4440 - Abnormal Psychology (3)

Electives from the Following: 9 Semester Hours

- PSY 3010 - Introduction to Applied Behavior Analysis (4)
- PSY 4050 - Positive Psychology (3)
- PSY 4130 - Sensation and Perception (3)
- PSY 4140 - Psychology of Human Sexuality (3)
- PSY 4200 - Applied Behavior Analysis With Children and Youth (4)
- PSY 4230 - Psychology of Adolescence GE (3)
- PSY 4240 - Psychology of Aging (3)
- PSY 4320 - Psychology of Women (3)
- PSY 4330 - Multicultural Psychology (3)
- PSY 4500 - Introduction to Psychological Measurement (3)
- PSY 4540 - Introduction to Counseling Psychology (3)
- PSY 4600 - Industrial/Organizational Psychology (3)
- PSY 4730 - Cognitive and Behavioral Intervention (4)
- PSY 4740 - Assessment and Intervention with Law Offenders (3)
- PSY 4750 - Field Experience in Applied Behavior Analysis (1-3)
- PSY 4000 - Special Projects in Psychology (1-3)
- PSY 4180 - Seminar in Psychology (1-3)

General Education Requirements: 36-39 Semester Hours

All students must complete a minimum of 42 credit hours in general education. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major:

- PSY 1100 - General Psychology GE (3)
- PSY 4230 - Psychology of Adolescence GE (3) (if chosen)

Upper-Level (3000/4000) Electives: 0-2 Semester Hours

(depending on choices made in major electives and general education)

Free Electives: 35-38 Semester Hours

Minimum Total: 120 Semester Hours

¹⁰ Competency 10 course

Sport Nutrition Minor (699) (20-21 hours)

Minor for a Bachelor's Degree

UCM does not confer teacher certification for this minor.

The Sports Nutrition minor explores basic exercise physiology, assessment/evaluation and an in depth analysis of current nutritional principles. Skills acquired in this minor allow the graduate to effectively evaluate nutritional claims, perform basic nutritional assessment, and give sound nutritional advice based on evidenced based practice.

Minor Requirements: 20-21 Semester Hours

- D&N 3340 - Nutrition (3) *
- D&N 4340 - Advanced Nutrition (3) *
- D&N 4346 - Dietary Supplements (3)
- NUTR 4300 - Nutrition and Human Performance (3) *
- KIN 2850 - Foundations of Exercise Physiology (3) *
- KIN 3850 - Assessment and Evaluation of Fitness/Wellness (3)

- D&N 4344 - Nutrition Education and Counseling (2) *
- OR**
- KIN 4860 - Fitness Programming and Implementation (3)

Note:

* This course has a prerequisite not listed in the program; click on the course number for additional requirements.

School of Technology

<https://www.ucmo.edu/technology/>

The School of Technology
Grinstead 009
660-543-4439
ucmo.edu/technology

Accreditations

Association of Technology, Management, and Applied Engineering
website atmae.org

Automotive Technology Management, Design and Drafting Technology, Construction Management, Electronics Technology, and Graphic Technologies baccalaureates.

American Council for Construction Education
website acce-hq.org
Construction Management Baccalaureate.

American Association of Family and Consumer Sciences
website aafcs.org
Fashion: Textiles and Clothing in Business.

National Automotive Technicians Educational Foundation
website NATEF.org
Automotive Technology Management.

Advanced Vehicle Systems Certificate (10-567) (20 hours)

Certificate

Required Courses: 20 Semester Hours

- ET 1010 - Applied Electricity (4: 3 lecture, 1 lab)
- ATM 1010 - Contemporary Power Systems (3: 2 lecture, 1 lab)
- ATM 2130 - Automotive Electrical Systems (4: 2 lecture, 2 lab)
- ATM 2124 - Automotive Braking Systems (4: 2 lecture, 2 lab)
- ATM 3134 - Advanced Powerplant Systems (3: 2 lecture, 1 lab) *
- ATM 4134 - Advanced Vehicle Systems (2)

Note:

* This course has prerequisites not listed in the program; click on the course number for additional requirements.

Apparel and Textiles Merchandising Certificate (10-673) (15 hours)

The Apparel and Textiles Merchandising Certificate will provide background knowledge and hands-on experience for those entering the fashion retail, merchandising, or product development workforce. You will learn basic sewing skills, fiber and fabric applications, industry trends, ethical business concepts, and various promotion and merchandising skills. High school students who are in the Apparel, Textiles, and Interior Design Pathway can complete the certificate with dual credit and online courses.

Required Courses: 15 Semester Hours

- FAME 1400 - Principles of Fashion Merchandising (3)
- FAME 1450 - Fundamentals of Apparel Design and Construction (3: 2 lecture, 1 lab)
- FAME 2440 - Professional Work Experience (1-3) (3)
- FAME 2442 - Textile Science (3)
- FAME 3442 - Sustainability for Consumer Products GE (3)

Applied Lean Six Sigma Quality Certificate (10-616) (15 hours)

Certificate

Required Courses: 15 Semester Hours

- ENGT 2600 - Lean Enterprises (3)
- ENGT 3520 - Engineering Economy (3)
- ENGT 3530 - Inspection and Quality Control (3)
- ENGT 4580 - Quality Systems Engineering (3)
- ENGT 4750 - Lean Six Sigma (3)

Automotive Technology Management, BS (43-838) (120-124 hours)

Major, Bachelor of Science Degree

The graduate with a Bachelor of Science degree in Automotive Technology Management 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.

Automotive Technology Management, BS (43-838) (Area 1: Automotive Tech.) (4 Year Guide)

Automotive Technology Management, BS (43-838) (Area 2: Design Technology) (4 Year Guide)

Automotive Technology Management, BS (43-838) (Area 3: Service Mgmt.) (4 Year Guide)

Major Requirements: 77-81 Semester Hours

Students must receive a grade of C or better in all required courses with the ATM prefix in order for the course to count toward the major

Technical Courses: 53 Semester Hours

- ATM 1010 - Contemporary Power Systems (3: 2 lecture, 1 lab)
- ATM 2110 - Engine Theory and Maintenance (4: 3 lecture, 1 lab)
- ATM 2124 - Automotive Braking Systems (4: 2 lecture, 2 lab)

- ATM 2130 - Automotive Electrical Systems (4: 2 lecture, 2 lab)
- ATM 2132 - Engine Performance I (4: 2 lecture, 2 lab)
- ATM 3120 - Steering and Suspension Systems (4: 2 lecture, 2 lab)
- ATM 3130 - Engine Performance II (4: 2 lecture, 2 lab)
- ATM 3134 - Advanced Powerplant Systems (3: 2 lecture, 1 lab)
- ATM 4150 - Diesel Technology (4: 3 lecture, 1 lab)
- ATM 4032 - Hydraulics and Pneumatics (3: 2 lecture, 1 lab)
- ATM 4112 - ATM Capstone Experience (3) ¹⁰
- ATM 4130 - ATM Comprehensive Vehicle Diagnostics (4: 1 lecture, 3 lab)
- ATM 4134 - Advanced Vehicle Systems (2)
- ET 1010 - Applied Electricity (4: 3 lecture, 1 lab)

- ACST 1300 - Basic Statistics GE (3)
OR
- MATH 1131 - Applied Calculus GE (3)

Management Courses: 24-28 Semester Hours

See the department for the possibility of a minor.

- SOT 3022 - Internship in Technology (1-6) (3)

- INDM 4210 - Industrial Management (3)
OR
- MGT 3315 - Management of Organizations (3)

- ACCT 2100 - Survey of Accounting (3)
OR
- ACCT 1101 - Foundations of Financial Reporting (3)

- BLAW 2720 - Legal Environment of Business (3)

- MKT 3405 - Principles of Marketing (3)
OR
- HRM 3920 - Human Resource Management (3)

Electives from One of the Three Areas Listed: 9-13 Semester Hours

Area 1 - Automotive Technology

- ATM 2140 - Manual Drivelines (3: 2 lecture, 1 lab)
- ATM 2150 - Mobile Heating, Ventilating, Air-Conditioning (Mobile HVAC) (3: 2 lecture, 1 lab)
- ATM 3110 - Automotive Engine Overhaul (4: 1 lecture, 3 lab)
- ATM 4110 - Automatic Transmissions (3: 2 lecture, 1 lab)

Area 2 - Design Technology

- CADD 1110 - Fundamentals of Drafting (3: 3 lecture, 0 lab)

- CADD 1170 - Introduction to Computer-Aided Drafting (3: 3 lecture, 0 lab)

Electives from the Following: 3-4 Semester Hours

- ATM 4038 - Advanced Hydraulics (3)
- CADD 2140 - Advanced Parametric Modeling (3: 3 lecture, 0 lab)
- CADD 4180 - Industrial Design (3: 3 lecture, 0 lab)
- CMGT 2020 - Statics (3)
- ENGT 2040 - Engineering Material Science (4: 3 lecture, 1 lab)
- ENGT 2530 - Machine Tool Technology (3: 2 lecture, 1 lab)
- ENGT 4520 - Robotics and Automation (3: 3 lecture, 0 lab)

Area 3 - Service Management

Choose 9 hours from the following courses:

- ENGT 4580 - Quality Systems Engineering (3)
- HRM 3920 - Human Resource Management (3)
- INDM 4220 - Human Factors Engineering (3)
- INDM 4230 - Lean and Quality Management (3)
- INDM 4250 - Project Management (3)
- INDM 4260 - Organizational Dynamics (3)
- MKT 3420 - Principles of Advertising (3)
- MKT 3430 - Professional Sales (3)

General Education Requirements: 43 Semester Hours

All students must complete a minimum of 42 credit hours in general education. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major:

- CIS 1600 - Business Information Management GE (3)
- COMM 1000 - Public Speaking GE (3)
- CS 1030 - Introduction to Computer Programming GE (3)
- CTE 3060 - Technical Writing GE (3)
- ECON 1010 - Principles of Macroeconomics GE (3)
- MATH 1111 - College Algebra GE (3)
- PHYS 1104 - Introduction to the Sciences: Physics GE (4: 4 lecture, 0 lab)

- COMM 3340 - Intercultural Communication GE (3)
- OR**
- ECEL 2110 - Diversity and Social Justice GE (3)

Minimum Total: 120-124 Semester Hours

¹⁰ Competency 10 course

Automotive Technology Minor (265) (27 hours)

Minor for a Bachelor's Degree

UCM does not confer teacher certification for this minor:

Minor Requirements: 27 Semester Hours

- ATM 1010 - Contemporary Power Systems (3: 2 lecture, 1 lab)
- ATM 2110 - Engine Theory and Maintenance (4: 3 lecture, 1 lab)
- ATM 2124 - Automotive Braking Systems (4: 2 lecture, 2 lab)
- ATM 2130 - Automotive Electrical Systems (4: 2 lecture, 2 lab)
- ATM 2132 - Engine Performance I (4: 2 lecture, 2 lab)
- ATM 3120 - Steering and Suspension Systems (4: 2 lecture, 2 lab)
- ET 1010 - Applied Electricity (4: 3 lecture, 1 lab)

CADD Minor (617) (21 hours)

Minor for a Bachelor's Degree

UCM does not confer teacher certification for this minor.

Minor Requirements: 21 Semester Hours

Must contain at least 9 credit hours not taken in your major.

- CADD 1110 - Fundamentals of Drafting (3: 3 lecture, 0 lab)
- CADD 1170 - Introduction to Computer-Aided Drafting (3: 3 lecture, 0 lab)
- CADD 2140 - Advanced Parametric Modeling (3: 3 lecture, 0 lab)
- CADD 2160 - Structural Drafting (3: 3 lecture, 0 lab)
- Electives in CADD (9) **

Note:

** Must include at least one upper-level (3000/4000) course to meet graduation requirements.

Construction Management Minor (258) (21 hours)

Minor for a Bachelor's Degree

UCM does not confer teacher certification for this minor.

Minor Requirements: 21 Semester Hours

- CMGT 1300 - Introduction to Construction Management (3: 2 lecture, 1 lab)
- CMGT 2310 - Construction Plans and Specifications (3)
- CMGT 2325 - Project Cost Estimating (3)

- CMGT 3320 - Principles of Construction Management (3)
- CMGT 3355 - Construction Planning and Scheduling (3)

Electives from the Following: 6 Semester Hours

- CMGT 2340 - Surveying and Construction Layout (3: 2 lecture; 1 lab) *
- CMGT 3330 - Building Codes and Code Administration (3)
- CMGT 3350 - Building Structures: Methods & Materials (3: 2 lecture, 1 lab) **
- CMGT 4310 - Construction Safety (3)
- CMGT 4325 - Advanced Estimating and Cost Analysis (3: 2 lecture, 1 lab)
- CMGT 4330 - Mechanical Systems for Buildings (3)
- CMGT 4380 - Heavy Construction: Methods and Materials (3) ***

Note:

CMGT 1300 and CMGT 2310 should be taken before enrolling in any upper-level (3000/4000) CMGT courses.

* Has prerequisite of MATH 1112 not included in the minor program.

** Has prerequisite of ENGT 2040 not included in the minor program.

*** Has prerequisite of MATH 1111 not included in the minor program.

Construction Management, BS (43-239) (122 hours)

Major, Bachelor of Science Degree

The graduate with a Bachelor of Science degree with a major in Construction Management will use the knowledge and skills obtained in the program to:

- Have effective oral and written communication skills and demonstrate the ability to contribute effectively to the benefit of teams.
- Apply construction management skills to develop and apply a project budget using the project estimate and schedule.
- Produce and manage a construction schedule.
- Be a professional, ethical, and socially responsible constructor.
- Be capable and committed to providing a safe working environment on all construction projects.
- Utilize current construction management techniques and construction management technology to acquire, manage, and complete construction projects.

Construction Management, BS (43-239) (4 Year Guide)

Major Requirements: 79 Semester Hours

- ACCT 1101 - Foundations of Financial Reporting (3)
- BLAW 2720 - Legal Environment of Business (3)
- CADD 1111 - Drafting for CMGT (3)
- CMGT 1300 - Introduction to Construction Management (3: 2 lecture, 1 lab)
- CMGT 1301 - Seminar in Construction Management (1)
- CMGT 2020 - Statics (3)

- CMGT 2301 - Intermediate Seminar in Construction Management (1)
- CMGT 2310 - Construction Plans and Specifications (3)
- CMGT 2325 - Project Cost Estimating (3)
- CMGT 2340 - Surveying and Construction Layout (3: 2 lecture; 1 lab)
- CMGT 2350 - Construction Materials (3: 2 lecture, 1 lab)
- CMGT 3020 - Applied Strength of Materials (3)
- CMGT 3301 - Advanced Seminar in Construction Management (1)
- CMGT 3320 - Principles of Construction Management (3)
- CMGT 3330 - Building Codes and Code Administration (3)
- CMGT 3350 - Building Structures: Methods & Materials (3: 2 lecture, 1 lab)
- CMGT 3355 - Construction Planning and Scheduling (3)
- CMGT 4310 - Construction Safety (3)
- CMGT 4325 - Advanced Estimating and Cost Analysis (3: 2 lecture, 1 lab)
- CMGT 4355 - Computer-Based Project Control (3: 2 lecture, 1 lab)
- CMGT 4400 - Construction Operations (3) ¹⁰
- GEOS 2100 - Engineering Geology (4: 3 lecture, 1 lab)
- MATH 1112 - College Trigonometry (2)
- SOT 3022 - Internship in Technology (1-6) (1)

- ACCT 2102 - Principles of Managerial Accounting (3)
OR
- MKT 3405 - Principles of Marketing (3)

- CADD 4150 - Applied Civil Design/Drafting (3: 3 lecture, 0 lab)
OR
- CADD 4162 - Commercial Architectural Design/Drafting (BIM) (3: 3 lecture, 0 lab) *

- INDM 4210 - Industrial Management (3)
OR
- MGT 3315 - Management of Organizations (3)

- INDM 4260 - Organizational Dynamics (3)
OR
- HRM 3920 - Human Resource Management (3)

Electives from the Following: 3 Semester Hours

- CMGT 4330 - Mechanical Systems for Buildings (3)
- CMGT 4380 - Heavy Construction: Methods and Materials (3)

General Education Requirements: 43 Semester Hours

All students must complete a minimum of 42 credit hours in general education. Some majors require additional hours due to required coursework. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major:

- CIS 1600 - Business Information Management GE (3)
- COMM 1000 - Public Speaking GE (3)

- CTE 3060 - Technical Writing GE (3)
- ECON 1010 - Principles of Macroeconomics GE (3)
- MATH 1111 - College Algebra GE (3)
- PHYS 1101 - College Physics I GE (4: 4 lecture, 0 lab)

Minimum Total: 122 Semester Hours

¹⁰ Competency 10 course

* This course has a prerequisite not listed in the program; click on the course number for additional requirements.

Cooperative Engineering 2-2 Transfer Agreement (590)

Transfer Agreement

Program of Study for Students Transferring to Other Institutions

The University of Central Missouri offers this pre-professional program to prepare students to transfer to a college or university offering a Bachelor of Science degree in Engineering. The first two years of courses are completed at UCM. To ensure a smooth transition, students should verify their course selection with the catalog of the school they are transferring to or contact an engineering program faculty advisor at the future engineering school. For details, consult the UCM Engineering Technology Coordinator.

Recommended Courses: 65 Semester Hours

- MATH 1151 - Calculus I GE (5)
- MATH 1152 - Calculus II (5)
- MATH 2153 - Calculus III (3)
- MATH 3151 - Differential Equations (3)
- PHYS 2121 - University Physics I GE (5: 5 lecture, 0 lab)
- PHYS 2122 - University Physics II (5: 5 lecture, 0 lab)
- PHYS 3211 - Analytical Mechanics I (3)
- PHYS 3212 - Analytical Mechanics II (3)
- CHEM 1131 - General Chemistry I GE (5: 5 lecture, 0 lab)
- ENGT 3520 - Engineering Economy (3)
- CADD 1110 - Fundamentals of Drafting (3: 3 lecture, 0 lab)
- ENGL 1030 - Composition II GE (3)

- HIST 1350 - History of the United States to 1877 GE (3)
OR
- HIST 1351 - History of the United States from 1877 GE (3)

- ECON 1010 - Principles of Macroeconomics GE (3)
OR
- ECON 1011 - Principles of Microeconomics GE (3)

- Gen. Ed.: K.A. I (9)

- Gen. Ed.: K.A. III (3)

Total Hours: 65 Semester Hours

Design & Drafting Technology, BS (43-568) (120 hours)

Major, Bachelor of Science Degree

The graduate with a Bachelor of Science Degree in Design & Drafting 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.

Design & Drafting Technology, BS (43-568) (4 Year Guide)

Design & Drafting Technology, BS (43-568) (Missouri Innovation Campus (MIC)) (4 Year Guide)

Major Requirements: 78 Semester Hours

Students must receive a grade of C or better in all required courses with the CADD prefix in order for the course to count toward the major.

- CADD 1100 - Orientation to Design/Drafting (1)
- CADD 1110 - Fundamentals of Drafting (3: 3 lecture, 0 lab)
- **OR**
- CTE 1300 - Introduction to Engineering Design (3)
- CADD 1170 - Introduction to Computer-Aided Drafting (3: 3 lecture, 0 lab)
- CADD 2100 - Sophomore Design/Drafting Seminar (0.5)
- CADD 2140 - Advanced Parametric Modeling (3: 3 lecture, 0 lab)
- CADD 2150 - Descriptive Geometry for Engineering Technology (3: 3 lecture, 0 lab)
- CADD 2160 - Structural Drafting (3: 3 lecture, 0 lab)
- CADD 2171 - Introduction to MicroStation (3: 3 lecture, 0 lab)
- CADD 2180 - Technical Illustration (3: 3 lecture, 0 lab)
- CADD 3100 - Junior Design/Drafting Seminar (0.5)
- CADD 3120 - Machine Drafting (3: 3 lecture, 0 lab)
- CADD 3150 - Civil Drafting (3: 3 lecture, 0 lab)

- CADD 3160 - Residential Architectural Drawing (3: 3 lecture, 0 lab)
- CADD 3170 - Computer Drafting Systems (3: 3 lecture, 0 lab)
- CADD 3175 - Advanced MicroStation (3: 3 lecture, 0 lab)
- CADD 4100 - Senior Design/Drafting Seminar (1)
- CADD 4180 - Industrial Design (3: 3 lecture, 0 lab) ¹⁰
- CMGT 2020 - Statics (3)
- CMGT 3010 - Applied Construction Practices GE (3: 2 lecture; 1 lab)
- ENGT 2530 - Machine Tool Technology (3: 2 lecture, 1 lab)
- MATH 1112 - College Trigonometry (2)
- SOT 3022 - Internship in Technology (1-6) (1)
- SOT 4570 - Computer Graphics (3)

Electives from the Following: 6 Semester Hours

- INDM 4250 - Project Management (3)
AND
- SOT 4210 - Innovations Management for CADD (3)
OR
- HRM 3920 - Human Resource Management (3)
AND
- MGT 3315 - Management of Organizations (3)

Choose from One of the Five Areas Listed: 15 Semester Hours

Area 1 - Mechanical (Product/Machine) Design

- CADD 4124 - Geometric Dimensioning and Tolerancing Principles for Engineering Technology (3: 3 lecture, 0 lab)
- CADD 4171 - Production Design/Drafting (3: 3 lecture, 0 lab)
- CADD 4174 - Machine Design (3: 3 lecture, 0 lab)
- Departmentally approved program electives (6)

Area 2 - Architectural/Structural

- CADD 4162 - Commercial Architectural Design/Drafting (BIM) (3: 3 lecture, 0 lab)
- CMGT 3330 - Building Codes and Code Administration (3) *
- CMGT 3350 - Building Structures: Methods & Materials (3: 2 lecture, 1 lab) *
- Departmentally approved program electives (6)

Area 3 - MEP (Mechanical, Electrical & Plumbing) & Industrial Piping Systems

- CADD 4162 - Commercial Architectural Design/Drafting (BIM) (3: 3 lecture, 0 lab)
- CADD 4172 - MEP (Mechanical, Electrical & Plumbing) & Industrial Piping Design/Drafting (3: 3 lecture, 0 lab)
- CMGT 3330 - Building Codes and Code Administration (3) *
- Departmentally approved MEP electives (6)

Area 4 - Civil/GIS

- CADD 4150 - Applied Civil Design/Drafting (3: 3 lecture, 0 lab)
- CMGT 2340 - Surveying and Construction Layout (3: 2 lecture; 1 lab)
- GEOS 4220 - Geographic Information Systems I (3)
- Departmentally approved program electives (6)

Area 5 - Computer Graphics

- GRAP 1010 - Digital PreMedia Fundamentals (3)
- GRAP 1610 - Principles of Web Media (3)
- Departmentally approved program electives (9)

General Education Requirements: 42 Semester Hours

All students must complete a minimum of 42 credit hours in general education. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major:

- CTE 1210 - Managing Information Using Computer Applications GE (2)
- CTE 3060 - Technical Writing GE (3)
- GEOS 1004 - Introduction to Geology GE (4: 3 lecture, 1 lab)
- GEOG 2212 - World Geography GE (3)
- MATH 1111 - College Algebra GE (3)
- PHYS 1103 - Introduction to the Sciences: Physics GE (3)

Minimum Total: 120 Semester Hours

¹⁰ Competency 10 course

* This course has a prerequisite not listed in the program; click on the course number for additional requirements.

Electronics Technology Minor (220) (21-24 hours)

Minor for a Bachelor's Degree

UCM does not confer teacher certification for this minor.

Minor Requirements: 21-24 Semester Hours

Choose one Area

Area 1

- ET 1026 - DC Circuit Analysis (4: 3 lecture, 1 lab) *
- ET 1027 - AC Circuit Analysis (3)

- ET 1050 - Digital Principles and Applications (3: 2 lecture, 1 lab)
- ET 2048 - Active Electronic Devices (4: 3 lecture, 1 lab)
- MATH 1112 - College Trigonometry (2)
- Upper-level (3000/4000) electives in electronics technology (4)

Area 2

- NET 1060 - Introduction to Networks (3: 2 lecture, 1 lab)
- NET 1061 - Routers and Switching Essentials (3: 2 lecture, 1 lab)
- NET 2060 - Scaling Networks (3: 2 lecture, 1 lab)
- NET 2061 - Connecting Networks (3: 2 lecture, 1 lab)
- NET 4060 - Advanced Routing (3)
- NET 4061 - Remote Access (3) *
- NET 4062 - Advanced Switching (3)
- NET 4063 - Network Support (3)

Note:

* This course has a prerequisite not listed in the program; click the course number for additional requirements.

Engineering Technology, BS (43-282) - Mechanical Engineering Technology Option (Product Design) (EN02) (121-124 hours)

Major, Bachelor of Science Degree (43-282)

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

- Creatively identify, analyze and solve engineering related problems and improve processes in both technical and managerial realms.
- Demonstrate mastery of the techniques, skills and modern tools necessary for current engineering technology practices.
- Practice effective personal and technical communication in both oral and written forms.
- Demonstrate lifelong learning by applying current mathematic, scientific, engineering and technical knowledge to problem solving and by adapting to emerging applications in the engineering technology fields.
- Understand and practice professional work habits including a commitment to quality, timeliness, and continuous improvement.
- Understand the professional, ethical and social responsibilities of an engineering technologist.
- Understand the need for working in teams and demonstrate the ability to effectively work in teams as well as lead teams.
- Demonstrate a respect for and knowledge of contemporary professional, societal and global issues.

Engineering Technology, BS (43-282) - Mechanical Engineering Technology Option (Product Design) (EN02) (4 Year Guide)

Major Requirements: 80-81 Semester Hours

Core Required Hours: 28 Semester Hours

- ENGT 1000 - Principles of Engineering (3)
- ENGT 1500 - Orientation to Engineering Technology (3)
- ENGT 3520 - Engineering Economy (3)
- ENGT 3600 - Applied Thermodynamics (3)
- ENGT 4110 - Engineering Technology Problem Solving (3) ¹⁰
- ENGT 4580 - Quality Systems Engineering (3)
- ET 1010 - Applied Electricity (4: 3 lecture, 1 lab)
- MATH 1112 - College Trigonometry (2)
- SOT 3022 - Internship in Technology (1-6) (1)

- CMGT 3320 - Principles of Construction Management (3)
OR
- ENGT 3510 - Project Management for Engineering Technology (3)

Option 2 - Mechanical Engineering Technology - (Prod. Des.): 52 Semester Hours

- ATM 4032 - Hydraulics and Pneumatics (3: 2 lecture, 1 lab)
- ENGT 1120 - Welding (3: 2 lecture, 1 lab)
- ENGT 1400 - Fundamentals of Engineering Design (3)
- ENGT 1510 - Introduction to Manufacturing Processes (3: 2 lecture, 1 lab)
- ENGT 2040 - Engineering Material Science (4: 3 lecture, 1 lab)
- ENGT 2530 - Machine Tool Technology (3: 2 lecture, 1 lab)
- ENGT 2600 - Lean Enterprises (3)
- ENGT 3400 - Manufacturing Design (3)
- ENGT 3450 - Applied Mechanics of Materials for Engineering Technology (3: 2 lecture, 1 lab)
- ENGT 3530 - Inspection and Quality Control (3)
- ENGT 3562 - Computer Numerical Control (CNC) (3: 2 lecture, 1 lab)
- ENGT 4221 - Manufacturing Problem Solving (3: 2 lecture, 1 lab)
- ENGT 4500 - Mechanical Engineering Design (3)
- ENGT 4750 - Lean Six Sigma (3)
- Approved Electives (9)

General Education Requirements: 43 Semester Hours

All students must complete a minimum of 42 credit hours in general education. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major:

- CHEM 1103 - Introduction to the Sciences: Chemistry GE (3)
- CIS 1600 - Business Information Management GE (3)
- COMM 1000 - Public Speaking GE (3)
- CTE 3060 - Technical Writing GE (3)
- ECON 1010 - Principles of Macroeconomics GE (3)
- MATH 1131 - Applied Calculus GE (3)

- PHYS 1101 - College Physics I GE (4: 4 lecture, 0 lab)

Minimum Total: 123-124 Semester Hours

¹⁰ Competency 10 course

* This course has a prerequisite not listed in the program; click the course number for additional requirements.

Engineering Technology, BS (43-282) - Civil Engineering Technology Option (EN04) (121-124 hours)

Major, Bachelor of Science Degree (43-282)

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

- Creatively identify, analyze and solve engineering related problems and improve processes in both technical and managerial realms.
 - Demonstrate mastery of the techniques, skills and modern tools necessary for current engineering technology practices.
 - Practice effective personal and technical communication in both oral and written forms.
 - Demonstrate lifelong learning by applying current mathematic, scientific, engineering and technical knowledge to problem solving and by adapting to emerging applications in the engineering technology fields.
 - Understand and practice professional work habits including a commitment to quality, timeliness, and continuous improvement.
 - Understand the professional, ethical and social responsibilities of an engineering technologist.
 - Understand the need for working in teams and demonstrate the ability to effectively work in teams as well as lead teams.
 - Demonstrate a respect for and knowledge of contemporary professional, societal and global issues.
- Engineering Technology, BS (43-282) - Civil Engineering Technology Option (EN04) (4 Year Guide)

Engineering Technology, BS (43-282) - Civil Engineering Technology Option (Design Emphasis) (EN04) (4 Year Guide)

Major Requirements: 80-81 Semester Hours

Core Required Hours: 28 Semester Hours

- ENGT 1000 - Principles of Engineering (3)
- ENGT 1500 - Orientation to Engineering Technology (3)
- ENGT 3520 - Engineering Economy (3)
- ENGT 3600 - Applied Thermodynamics (3)
- ENGT 4110 - Engineering Technology Problem Solving (3) ¹⁰
- ENGT 4580 - Quality Systems Engineering (3)
- ET 1010 - Applied Electricity (4: 3 lecture, 1 lab)
- MATH 1112 - College Trigonometry (2)

- SOT 3022 - Internship in Technology (1-6) (1)
- CMGT 3320 - Principles of Construction Management (3)
OR
- ENGT 3510 - Project Management for Engineering Technology (3)

Option 4 - Civil Engineering Technology: 52 Semester Hours

- CADD 1111 - Drafting for CMGT (3)
- CADD 2171 - Introduction to MicroStation (3: 3 lecture, 0 lab)
- CMGT 2020 - Statics (3)
- CMGT 2310 - Construction Plans and Specifications (3)
- CMGT 2325 - Project Cost Estimating (3)
- CMGT 2340 - Surveying and Construction Layout (3: 2 lecture; 1 lab)
- CMGT 2350 - Construction Materials (3: 2 lecture, 1 lab)
- CMGT 3020 - Applied Strength of Materials (3)
- CMGT 3350 - Building Structures: Methods & Materials (3: 2 lecture, 1 lab)
- CMGT 4310 - Construction Safety (3)
- GEOS 2100 - Engineering Geology (4: 3 lecture, 1 lab)
- ENGT 4120 - Hydrology and Drainage Design (3)
- ENGT 4140 - Soils and Foundation Design (3)
- ENGT 4150 - Concrete and Steel Design (3)
- ENGT 4160 - Transportation Systems Design (3)
- ENGT 4180 - Water and Wastewater Systems Design (3)
- CADD 4150 - Applied Civil Design/Drafting (3: 3 lecture, 0 lab)
OR
- CADD 4162 - Commercial Architectural Design/Drafting (BIM) (3: 3 lecture, 0 lab)

General Education Requirements: 43 Semester Hours

All students must complete a minimum of 42 credit hours in general education. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major:

- CIS 1600 - Business Information Management GE (3)
- CMGT 3010 - Applied Construction Practices GE (3: 2 lecture; 1 lab)
- COMM 1000 - Public Speaking GE (3)
- CTE 3060 - Technical Writing GE (3)
- ECON 1010 - Principles of Macroeconomics GE (3)
- MATH 1131 - Applied Calculus GE (3)
- PHYS 1101 - College Physics I GE (4: 4 lecture, 0 lab)

Minimum Total: 123-124 Semester Hours

¹⁰ Competency 10 course

* This course has a prerequisite not listed in the program; click the course number for additional requirements.

Engineering Technology, BS (43-282) - Electronics Engineering Technology Option (EN01) (121-124 hours)

Major, Bachelor of Science Degree

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

- Creatively identify, analyze and solve engineering related problems and improve processes in both technical and managerial realms.
 - Demonstrate mastery of the techniques, skills and modern tools necessary for current engineering technology practices.
 - Practice effective personal and technical communication in both oral and written forms.
 - Demonstrate lifelong learning by applying current mathematic, scientific, engineering and technical knowledge to problem solving and by adapting to emerging applications in the engineering technology fields.
 - Understand and practice professional work habits including a commitment to quality, timeliness, and continuous improvement.
 - Understand the professional, ethical and social responsibilities of an engineering technologist.
 - Understand the need for working in teams and demonstrate the ability to effectively work in teams as well as lead teams.
 - Demonstrate a respect for and knowledge of contemporary professional, societal and global issues.
- Engineering Technology, BS (43-282) - Electronics Engineering Technology Option (EN01) (4 Year Guide)

Major Requirements: 80-81 Semester Hours

Core Required Hours: 28 Semester Hours

- ENGT 1000 - Principles of Engineering (3)
- ENGT 1500 - Orientation to Engineering Technology (3)
- ENGT 3520 - Engineering Economy (3)
- ENGT 3600 - Applied Thermodynamics (3)
- ENGT 4110 - Engineering Technology Problem Solving (3) ¹⁰
- ENGT 4580 - Quality Systems Engineering (3)
- ET 1010 - Applied Electricity (4: 3 lecture, 1 lab)
- MATH 1112 - College Trigonometry (2)
- SOT 3022 - Internship in Technology (1-6) (1)

- CMGT 3320 - Principles of Construction Management (3)
OR
- ENGT 3510 - Project Management for Engineering Technology (3)

Option 1 - Electronics Engineering Technology: 53 Semester Hours

- ENGT 1400 - Fundamentals of Engineering Design (3)

- ENGT 2600 - Lean Enterprises (3)
- ENGT 3200 - Energy Production and Transmission (3)
- ENGT 3530 - Inspection and Quality Control (3)
- ENGT 3562 - Computer Numerical Control (CNC) (3: 2 lecture, 1 lab)
- ENGT 4520 - Robotics and Automation (3: 3 lecture, 0 lab)
- ENGT 4530 - Advanced Robotics, Vision, Automation & Controls (3: 2 lecture, 1 lab)
- ENGT 4590 - Computer Integrated Manufacturing (CIM) (3: 2 lecture, 1 lab)
- ET 1027 - AC Circuit Analysis (3)
- ET 1050 - Digital Principles and Applications (3: 2 lecture, 1 lab)
- ET 2048 - Active Electronic Devices (4: 3 lecture, 1 lab)
- ET 2060 - Microprocessors: Theory and Application (3: 2 lecture, 1 lab)
- ET 2065 - Computer Programming for Electronics Technology (3)
- ET 3017 - Programmable Logic Controllers (4: 3 lecture, 1 lab)
- ET 3022 - AC and DC Machines (4: 3 lecture, 1 lab)
- NET 1060 - Introduction to Networks (3: 2 lecture, 1 lab)
- Department Approved Electives (3)

General Education Requirements: 43 Semester Hours

All students must complete a minimum of 42 credit hours in general education. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major:

- CHEM 1103 - Introduction to the Sciences: Chemistry GE (3)
- CIS 1600 - Business Information Management GE (3)
- COMM 1000 - Public Speaking GE (3)
- CTE 3060 - Technical Writing GE (3)
- ECON 1010 - Principles of Macroeconomics GE (3)
- MATH 1131 - Applied Calculus GE (3)
- PHYS 1101 - College Physics I GE (4: 4 lecture, 0 lab)

Minimum Total: 123-124 Semester Hours

¹⁰ Competency 10 course

* This course has a prerequisite not listed in the program; click the course number for additional requirements.

Engineering Technology, BS (43-282) - Industrial Engineering Technology Option (EN03) (121-124 hours)

Major, Bachelor of Science Degree (43-282)

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

- Creatively identify, analyze and solve engineering related problems and improve processes in both technical and managerial realms.

- Demonstrate mastery of the techniques, skills and modern tools necessary for current engineering technology practices.
 - Practice effective personal and technical communication in both oral and written forms.
 - Demonstrate lifelong learning by applying current mathematic, scientific, engineering and technical knowledge to problem solving and by adapting to emerging applications in the engineering technology fields.
 - Understand and practice professional work habits including a commitment to quality, timeliness, and continuous improvement.
 - Understand the professional, ethical and social responsibilities of an engineering technologist.
 - Understand the need for working in teams and demonstrate the ability to effectively work in teams as well as lead teams.
 - Demonstrate a respect for and knowledge of contemporary professional, societal and global issues.
- Engineering Technology, BS (43-282) - Industrial Engineering Technology Option (EN03) (4 Year Guide)

Major Requirements: 80-81 Semester Hours

Core Required Hours: 28 Semester Hours

- ENGT 1000 - Principles of Engineering (3)
- ENGT 1500 - Orientation to Engineering Technology (3)
- ENGT 3520 - Engineering Economy (3)
- ENGT 3600 - Applied Thermodynamics (3)
- ENGT 4110 - Engineering Technology Problem Solving (3) ¹⁰
- ENGT 4580 - Quality Systems Engineering (3)
- ET 1010 - Applied Electricity (4: 3 lecture, 1 lab)
- MATH 1112 - College Trigonometry (2)
- SOT 3022 - Internship in Technology (1-6) (1)

- CMGT 3320 - Principles of Construction Management (3)
OR
- ENGT 3510 - Project Management for Engineering Technology (3)

Option 3 - Industrial Engineering Technology: 53 Semester Hours

- ATM 4032 - Hydraulics and Pneumatics (3: 2 lecture, 1 lab)
- ET 3017 - Programmable Logic Controllers (4: 3 lecture, 1 lab)
- ENGT 1120 - Welding (3: 2 lecture, 1 lab)
- ENGT 1400 - Fundamentals of Engineering Design (3)
- ENGT 1510 - Introduction to Manufacturing Processes (3: 2 lecture, 1 lab)
- ENGT 2040 - Engineering Material Science (4: 3 lecture, 1 lab)
- ENGT 2530 - Machine Tool Technology (3: 2 lecture, 1 lab)
- ENGT 2600 - Lean Enterprises (3)
- ENGT 3400 - Manufacturing Design (3)
- ENGT 3450 - Applied Mechanics of Materials for Engineering Technology (3: 2 lecture, 1 lab)
- ENGT 3530 - Inspection and Quality Control (3)
- ENGT 3562 - Computer Numerical Control (CNC) (3: 2 lecture, 1 lab)
- ENGT 4221 - Manufacturing Problem Solving (3: 2 lecture, 1 lab)

- ENGT 4520 - Robotics and Automation (3: 3 lecture, 0 lab)
- ENGT 4590 - Computer Integrated Manufacturing (CIM) (3: 2 lecture, 1 lab)
- ENGT 4750 - Lean Six Sigma (3)
- INDM 4240 - Facilities Engineering (3)

General Education Requirements: 43 Semester Hours

All students must complete a minimum of 42 credit hours in general education. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major:

- CHEM 1103 - Introduction to the Sciences: Chemistry GE (3)
- CIS 1600 - Business Information Management GE (3)
- COMM 1000 - Public Speaking GE (3)
- CTE 3060 - Technical Writing GE (3)
- ECON 1010 - Principles of Macroeconomics GE (3)
- MATH 1131 - Applied Calculus GE (3)
- PHYS 1101 - College Physics I GE (4: 4 lecture, 0 lab)

Minimum Total: 123-124 Semester Hours

¹⁰ Competency 10 course

* This course has a prerequisite not listed in the program; click the course number for additional requirements.

Fashion Merchandising Minor (327) (21 hours)

Minor for a Bachelor's Degree

UCM does not confer teacher certification for this minor.

Minor Requirements: 21 Semester Hours

- FAME 1400 - Principles of Fashion Merchandising (3)
- FAME 2442 - Textile Science (3)
- FAME 3430 - Professional Image Management (3)
- Approved electives (12)

Fashion: Textiles and Clothing in Business, BS (43-118) (120 hours)

Major, Bachelor of Science Degree

The graduate with a Bachelor of Science degree with a major in Fashion: Textiles and Clothing in Business will use the knowledge and skills obtained in the program to:

- Communicate and collaborate effectively in both individual and team settings in a creative environment.
- Demonstrate professional qualities that are socially, ethically and responsibly moral in a diverse society.
- Use technology to create and present materials, organize and analyze data, and manage the production of soft goods from development through retail consumption.
- Demonstrate awareness of constant changes within the global fashion market and the need for sustainable materials in textile products.
- Interact effectively with co-workers, supervisors and customers to solve problems that lead to effective management and leadership.

Fashion: Textiles & Clothing in Business, BS (43-118) (4 Year Guide)

Major Requirements: 60 Semester Hours

- ACCT 1101 - Foundations of Financial Reporting (3)
- GRAP 1010 - Digital PreMedia Fundamentals (3)
- FAME 1400 - Principles of Fashion Merchandising (3)
- FAME 1445 - Fashion Seminar 1 (1)
- FAME 1450 - Fundamentals of Apparel Design and Construction (3: 2 lecture, 1 lab)
- FAME 2425 - Apparel Quality Analysis (3)
- FAME 2440 - Professional Work Experience (1-3)
- FAME 2442 - Textile Science (3)
- FAME 2445 - Fashion Seminar 2 (1)
- FAME 3415 - Product Development for Consumers (3)
- FAME 3430 - Professional Image Management (3)
- FAME 3434 - Fashion History of Costume GE (3)
- FAME 3435 - Fashion Buying (3)
- FAME 3440 - Visual Merchandising and Fashion Promotion (3)
- FAME 3442 - Sustainability for Consumer Products GE (3)
- FAME 3445 - Fashion Seminar 3 (1)
- FAME 4400 - Branding and Fashion Technology (3)
- FAME 4410 - Materials for Interior Furnishings (3)
- FAME 4425 - Fashion Entrepreneurship (3)
- FAME 4433 - Sourcing in the Global Market (3)
- FAME 4445 - Senior Seminar in Fashion and Apparel Merchandising (3) ¹⁰
- FAME 4490 - Internship in Fashion and Apparel Merchandising (1-3)

Electives from the Following: 3 Semester Hours

- FAME 2450 - Advanced Apparel Design & Construction (3: 2 lecture, 1 lab)
- GRAP 2030 - Pre-Media Applications - Adobe Illustrator (3)

General Education Requirements: 33-36 Semester Hours

All students must complete a minimum of 42 credit hours in general education. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major:

- CFD 1010 - Individual and Family Relationships GE (3)
- FAME 3434 - Fashion History of Costume GE (3)
- FAME 3442 - Sustainability for Consumer Products GE (3)

Minor in Marketing, 18 or Minor in Business Administration, 15: 15-18 Semester Hours

Free Electives: 3 Semester Hours

Minimum Total: 120 Semester Hours

¹⁰ Competency 10 course

Manufacturing Minor (153) (22 hours)

Minor for a Bachelor's Degree

UCM does not confer teacher certification for this minor

Minor Requirements: 22 Semester Hours

- ENGT 2040 - Engineering Material Science (4: 3 lecture, 1 lab)
- ENGT 2530 - Machine Tool Technology (3: 2 lecture, 1 lab)
- ENGT 3562 - Computer Numerical Control (CNC) (3: 2 lecture, 1 lab)

Electives: 12 Semester Hours

- ENGT 1510 - Introduction to Manufacturing Processes (3: 2 lecture, 1 lab)
- ENGT 2515 - Applied Manufacturing Processes (3: 2 lecture, 1 lab)
- ENGT 3530 - Inspection and Quality Control (3)
- ENGT 4520 - Robotics and Automation (3: 3 lecture, 0 lab)
- ENGT 4590 - Computer Integrated Manufacturing (CIM) (3: 2 lecture, 1 lab)
- CADD 1110 - Fundamentals of Drafting (3: 3 lecture, 0 lab)
- CADD 1170 - Introduction to Computer-Aided Drafting (3: 3 lecture, 0 lab)

Networking Technology, BS (43-893) (120 hours)

Major, Bachelor of Science Degree

The graduate with a Bachelor of Science Degree in Networking Technology will use the knowledge and skills obtained in the program to:

- Analyze a problem to identify and define the computing requirements appropriate to its solution.
- Design a computer-based system, process, component, or program to meet defined needs.
- Implement the design of a computer-based system, process, component, or program.
- Evaluate the quality of a computer-based system, process, component, or program.

- Work collaboratively as a member of a team to develop and deliver networking solutions.
- Demonstrate an understanding of networking professional, ethical, legal, security, and social issues and responsibilities.
- Apply mathematical and computing concepts to support programming logic, functions, data structures, and database access.
- Communicate effectively, in oral and written form, with stakeholders.
- Analyze the impact of networking solutions on individuals, organizations, and global society.
- Engage in continuing professional development based on recognition of its need and value.
- Apply current techniques and tools in the development, deployment, and evaluation of IT solutions.
- Apply current technical concepts and practices in the core networking technologies.
- Incorporate user needs in the selection, creation, evaluation, and administration of computer-based systems.
- Integrate technologies, products, and services from multiple sources into a user environment.
- Apply "best practice" and standards in networking development, deployment, and evaluation processes.
- Formulate a project plan based on appropriate systems development methods and project management practice.

Program Educational Objectives:

- Develop networking solutions to meet the needs of employers and communities in a global society.
- Collaborate effectively with a variety of stakeholders to meet user needs.
- Be employed in progressively more responsible positions in the networking field.
- Demonstrate ethical behavior as networking professionals.
- Demonstrate sensitivity to the impact of technology on the individual, the organization, and society as a networking professional.
- Maintain up-to-date knowledge and business practices as it relates to networking.

Networking Technology, BS (43-893) (4 Year Guide)

Major Requirements: 70 Semester Hours

- CIS 3650 - Database Management Systems (3)
- COMM 3327 - Improving Interviewing Skills (3)
- CS 1100 - Computer Programming I (3)
- ET 1010 - Applied Electricity (4: 3 lecture, 1 lab)
- GRAP 1610 - Principles of Web Media (3)
- INDM 4250 - Project Management (3)
- NET 1000 - Seminar in Networking Technology (1)
- NET 1058 - Computer Technologies (3)
- NET 1060 - Introduction to Networks (3: 2 lecture, 1 lab)
- NET 1061 - Routers and Switching Essentials (3: 2 lecture, 1 lab)
- NET 2060 - Scaling Networks (3: 2 lecture, 1 lab)
- NET 2061 - Connecting Networks (3: 2 lecture, 1 lab)
- NET 3062 - Network Design (3)
- NET 3065 - Converged Voice and Data Networks (3)
- NET 3068 - Network Security I (4: 3 lecture, 1 lab)
- NET 3088 - Linux Operating Systems (4: 3 lecture, 1 lab)
- NET 4040 - Fundamentals of Network Operating Systems (3)

- NET 4042 - Network Servers and Services (3)
- NET 4043 - Network Services and Infrastructure (3)
- NET 4060 - Advanced Routing (3)
- NET 4062 - Advanced Switching (3)
- NET 4063 - Network Support (3) ¹⁰
- SOT 3022 - Internship in Technology (1-6) (3)

General Education Requirements: 43 Semester Hours

All students must complete a minimum of 42 credit hours in general education. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major:

- CIS 1600 - Business Information Management GE (3)
- COMM 1000 - Public Speaking GE (3)
- CS 1000 - Computers and Modern Society GE (3)
- CS 1030 - Introduction to Computer Programming GE (3)
- CTE 3060 - Technical Writing GE (3)
- ENGL 1020 - Composition I GE (3)
- MATH 1111 - College Algebra GE (3)
- PHYS 1104 - Introduction to the Sciences: Physics GE (4: 4 lecture, 0 lab)

Free Electives: 7 Semester Hours

Minimum Total: 120 Semester Hours

¹⁰ Competency 10 course

Robotics & Automation Certificate (10-865) (18 hours)

Certificate

Required Courses: 18 Semester Hours

- ENGT 3562 - Computer Numerical Control (CNC) (3: 2 lecture, 1 lab)
- ENGT 4520 - Robotics and Automation (3: 3 lecture, 0 lab)
- ET 1010 - Applied Electricity (4: 3 lecture, 1 lab)
- ET 1050 - Digital Principles and Applications (3: 2 lecture, 1 lab)
- ET 3017 - Programmable Logic Controllers (4: 3 lecture, 1 lab)

Systems Engineering Technology, BS (43-879) (120 hours)

Major, Bachelor of Science Degree

Program Outcomes

The graduate with a Bachelor of Science degree in Systems Engineering Technology will use the knowledge and skills obtained in the program to:

- Understand and perform systems administration.
- Plan, design, create and manage databases.
- Develop and implement computer networks to include remote access, web services and security.
- Create design solutions for the interface of hardware and software.
- Troubleshoot hardware, software and networks.
- Perform disaster recovery.
- Develop an awareness of safety, security and ethics.

Systems Engineering Technology, BS (43-879) (4 Year Guide)

Major Requirements: 55 Semester Hours

- CIS 1600 - Business Information Management GE (3)
- CIS 1625 - Programming With Visual C# (3)
- CIS 2665 - Principles of Data Communications and Local Area Networking (3)
- CIS 3650 - Database Management Systems (3)
- CIS 3665 - Data Communication Technologies (3)
- CIS 4610 - Special Projects (1-3)
- CIS 4665 - Data Communication and Distributed Data Processing (3)
- CIS 4680 - Data Resource Management (3)
- CIS 4685 - Network Planning, Design and Security (3)
- NET 1060 - Introduction to Networks (3: 2 lecture, 1 lab)
- NET 1061 - Routers and Switching Essentials (3: 2 lecture, 1 lab)
- NET 2060 - Scaling Networks (3: 2 lecture, 1 lab)
- NET 2061 - Connecting Networks (3: 2 lecture, 1 lab)
- NET 3068 - Network Security I (4: 3 lecture, 1 lab)
- NET 4060 - Advanced Routing (3)
- NET 4062 - Advanced Switching (3)
- NET 4063 - Network Support (3) ¹⁰
- SOT 3022 - Internship in Technology (1-6) (3)

General Education Requirements: 42 Semester Hours

All students must complete a minimum of 42 credit hours in general education. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major:

- COMM 1000 - Public Speaking GE (3)
- CTE 1210 - Managing Information Using Computer Applications GE (2)
- MATH 1111 - College Algebra GE (3)

Free Electives: 23 Semester Hours

Minimum Total: 120 Semester Hours

¹⁰ Competency 10 course

Technology Certificate (10-565) (21 hours)

Certificate

The certificate program in Technology is designed by the student and a faculty advisor, based upon the curriculum outline below. Each program of study has a significant component of advanced technology study in a high-demand area of occupational preparation. The student may choose to use this program as career preparation for entry into employment, or the student may supplement a baccalaureate degree in a technology area with this area of study.

Core Courses: 8-10 Semester Hours

- COMM 1000 - Public Speaking GE (3)
OR
- THEA 1100 - Oral Interpretation GE (3)

- MATH 1111 - College Algebra GE (3)
OR
- MATH 1112 - College Trigonometry (2)
OR
- MATH 1131 - Applied Calculus GE (3)
OR
- MATH 1620 - Introduction to Geometry and Decision Making for Educators GE (3)

- BIOL 1003 - Introduction to the Sciences: Ecology GE (3)
OR
- BIOL 1003 - Introduction to the Sciences: Ecology GE (3) (3)
AND
- BIOL 1006 - Environmental Science/Ecology Lab GE (1:1 lab)
OR
- BIOL 1005 - Introduction to Environmental Science GE (3)
OR
- BIOL 1005 - Introduction to Environmental Science GE (3) (3)
AND
- BIOL 1006 - Environmental Science/Ecology Lab GE (1:1 lab) (1:1 lab)
OR
- CHEM 1103 - Introduction to the Sciences: Chemistry GE (3)
OR
- CHEM 1104 - Introduction to the Sciences: Chemistry GE (4: 4 lecture, 0 lab)
OR
- GEOS 1004 - Introduction to Geology GE (4: 3 lecture, 1 lab)
OR
- PHYS 1103 - Introduction to the Sciences: Physics GE (3)
OR
- PHYS 1104 - Introduction to the Sciences: Physics GE (4: 4 lecture, 0 lab)

Technical Electives: 11-13 Semester Hours

The student will complete 11-13 semester hours of approved technical electives from one or more of the high-demand areas of occupational preparation designated by the State of Missouri. This course work will primarily come from the 1,000 and 2,000 levels of technical content. In some individual cases, advanced course work may be required.

Minimum Total: 21 Semester Hours

Technology Management (2+2), BS (43-895)

Major, Bachelor of Science Degree

Alternative Program of Study for Transfer Students

The School of Technology has created a sequence of courses leading to a Bachelor of Science in Technology Management 2+2 (43-895) that is specifically designed for transfer students. The student learning outcomes for this transfer program are identical to those listed previously for the Technology Management major/ program. This alternative program is not limited to specific two-year colleges or universities. The School of Technology is committed to designing a program of study for students who have earned 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 (Associate of Arts degrees are accepted with individualized review of the student's course history). In order for the student to meet career objectives, the School of Technology has selected a group of core courses which all students will complete. In addition, options of specialized study will be developed with a faculty advisor. Details of the program of study are outlined below.

The graduate with a Bachelor of Science Degree in Technology Management (2+2) will use the knowledge and skills obtained in the program to:

- Apply mathematical, statistical and scientific principles to technological situations to maintain and enhance the work within business or industry.
- Use the computer proficiently as an essential tool in planning, monitoring, and controlling of work within business or industry.
- Understand and utilize core competencies in technical writing, quality systems, industrial management and project management.
- Communicate effectively in both individual and team situations using both oral and written communications.
- Utilize critical thinking skills to solve problems in both individual and team situations.

Note: Selected online course offerings make it possible for a student to complete this degree 100% Online!

Major Requirements: 78 Semester Hours

Associate Degree Technology Courses: 38 Semester Hours

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 (Associate of Arts degrees are accepted with individualized course evaluations). Thirty-eight 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: 24 Semester Hours

- CTE 3116 - Creative Thinking for a Better World GE (3)
- ENGT 3510 - Project Management for Engineering Technology (3)
- ENGT 4580 - Quality Systems Engineering (3) (Reference Option 5 (Quality Systems) for Certificate information)
- INDM 4010 - Current Issues in Industry (3)
- INDM 4015 - Legal Aspects of Industry (3)
- INDM 4210 - Industrial Management (3)
- INDM 4260 - Organizational Dynamics (3)
- TECH 4950 - Seminar in Technology Management (3) ¹⁰

Electives from One of the Following Options: 16 Semester Hours

Option 1 Management

- INDM 4220 - Human Factors Engineering (3)
- INDM 4230 - Lean and Quality Management (3)
- INDM 4240 - Facilities Engineering (3)
- SOT 3022 - Internship in Technology (1-6) (3)
- Departmentally approved electives (4)

Option 2 Construction

- CMGT 3320 - Principles of Construction Management (3)
- CMGT 3330 - Building Codes and Code Administration (3)
- CMGT 4310 - Construction Safety (3)
- SOT 3022 - Internship in Technology (1-6) (3)
- Approved electives (4)

Option 3 Networking

- 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: 2 lecture, 1 lab)
- SOT 3022 - Internship in Technology (1-6) (1)

Option 4 Manufacturing Engineering Technology

- ENGT 3520 - Engineering Economy (3)
- ENGT 3530 - Inspection and Quality Control (3)

- ENGT 3562 - Computer Numerical Control (CNC) (3: 2 lecture, 1 lab)
- ENGT 4520 - Robotics and Automation (3: 3 lecture, 0 lab)
- ENGT 4590 - Computer Integrated Manufacturing (CIM) (3: 2 lecture, 1 lab)
- Approved electives (1)

Option 5 Quality Systems

- ENGT 2600 - Lean Enterprises (3) *
- ENGT 3520 - Engineering Economy (3) *
- ENGT 3530 - Inspection and Quality Control (3) *
- ENGT 4750 - Lean Six Sigma (3) *
- Approved electives (4)

Note:

* Five courses are required for the "Applied Lean Six Sigma Quality" certificate (15 Credit Hours; it also includes the ENGT 4580 course listed in the Core).

Option 6 Virtual Media

- COMM 4250 - The Law and Digital Media (3)
- COMM 4475 - New Media Technologies (3)
- ESE 3710 - Entrepreneurial Business Planning (3)
- SOT 3022 - Internship in Technology (1-6) (3)
- SOT 4570 - Computer Graphics (3)
- Approved electives (3)

Note:

[Greater than 16 credit hours are listed due to an articulation Agreement with Missouri State University]

Option 7 General Technology

The student, working with a faculty advisor, will select 16 sem. hours of upper-level (3000/4000) course work from program areas in the School of Technology.

General Education Requirements: 39 Semester Hours

All students must complete a minimum of 42 credit hours in general education. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major:

- CTE 3060 - Technical Writing GE (3)
- CTE 3116 - Creative Thinking for a Better World GE (3)
- MATH 1111 - College Algebra GE (3)
- CTE 1210 - Managing Information Using Computer Applications GE (2)
- PHYS 1104 - Introduction to the Sciences: Physics GE (4: 4 lecture, 0 lab)

- ECON 1010 - Principles of Macroeconomics GE (3)

Note:

The number of General Education courses needed at UCM will depend on courses transferred.

Free Electives: 3 Semester Hours

Minimum Total: 120 Semester Hours

¹⁰ Competency 10 course

* This course has a prerequisite not listed in the program; click on the course number for additional requirements.

Technology Management, BS (43-894) (120 hours)

Major, Bachelor of Science Degree

The graduate with a Bachelor of Science Degree in Technology Management will use the knowledge and skills obtained in the program to:

- Apply mathematical, statistical and scientific principles to technological situations to maintain and enhance the work within business or industry.
- Use the computer proficiently as an essential tool in planning, monitoring, and controlling of work within business or industry.
- Understand and utilize core competencies in design and drafting, technical writing, quality systems, project management and safety leadership.
- Communicate effectively in both individual and team situations using both oral and written communications
- Utilize critical thinking skills to solve problems in both individual and team situations.
- Explore and earn minors and certifications in order to meet business and industrial needs.
- Students must choose one minor or certification within the School of Technology. Additional certifications or minors are possible and encouraged with this degree.

Technology Management, BS (43-894) (4 Year Guide)

Major Requirements: 78 Semester Hours

Core Requirements: 39 Semester Hours

- ACCT 1101 - Foundations of Financial Reporting (3)
- CADD 1110 - Fundamentals of Drafting (3: 3 lecture, 0 lab)
- CADD 1170 - Introduction to Computer-Aided Drafting (3: 3 lecture, 0 lab)
- CTE 3116 - Creative Thinking for a Better World GE (3)
- ENGT 3510 - Project Management for Engineering Technology (3)
- ENGT 3520 - Engineering Economy (3)
- ENGT 4580 - Quality Systems Engineering (3)
- INDM 4015 - Legal Aspects of Industry (3)

- INDM 4210 - Industrial Management (3)
- INDM 4260 - Organizational Dynamics (3)
- SAFE 3070 - Safety Leadership (3)
- SOT 3022 - Internship in Technology (1-6) (3)
- TECH 4950 - Seminar in Technology Management (3) ¹⁰

Certification or Minor Area: 39 Semester Hours

Approved Electives: 39 Semester Hours

(One of these must be from the School of Technology or as approved)

Single Minor / Multiple Minors can replace the approved elective area. Any minor within SOT with the Technology Management major. By utilizing general education/major/minor course overlaps, several minor combinations can be obtained with careful advisement and course planning. For example, the following minors may be combined for more than one in the overall approved elective hours: Agriculture, Automotive, Aviation, Business Administration, Construction Management, Criminal Justice, Economics, Electronics (Area 1 or 2), Fashion Merchandising, Graphics, Manufacturing, Photography, and Safety.

Choose One of the Following Minors or Certifications:

School of Technology Minors and Certificates (1 required)

Advanced Vehicle Systems, Applied Lean Six Sigma Quality, Automotive Technology, Construction Management, Electronics Technology (Area 1 or 2), Fashion Merchandising, Robotics & Automation, and Technology. Other minors or certificates as approved. Check the most current undergraduate catalog for what is available.

General Education Requirements: 42 Semester Hours

All students must complete a minimum of 42 credit hours in general education. See The General Education Program Requirements for full listing of requirements. The following general education classes are required by this major:

- CHEM 1103 - Introduction to the Sciences: Chemistry GE (3)
- COMM 1000 - Public Speaking GE (3)
- CTE 3060 - Technical Writing GE (3)
- ECON 1010 - Principles of Macroeconomics GE (3)
- FAME 3442 - Sustainability for Consumer Products GE (3)
- MATH 1111 - College Algebra GE (3)
- PHYS 1104 - Introduction to the Sciences: Physics GE (4: 4 lecture, 0 lab)

Minimum Total: 120 Semester Hours

¹⁰ Competency 10 course

Accelerated Degree Programs

UCM Accelerated Bachelor's/Master's Degrees

Accelerated Bachelor's/Master's degree programs at the University of Central Missouri provide well-prepared advanced students the opportunity to substitute graduate courses for required or elective courses in an undergraduate degree program and then subsequently count those same courses as fulfilling graduate requirements in a related graduate program.

The program will begin after a student is admitted. Students can enroll in graduate courses only after the junior year (90 earned hours).

A minimum of 30 graduate credit hours must be earned to complete the master's degree while the undergraduate program will require a minimum of 120 credit hours of both undergraduate and graduate courses.

Depending on the program, up to 12 hours of graduate coursework may be taken during the senior year and counted to meet both the Bachelor's and Master's degree requirements. Students complete the remaining graduate coursework in the fifth year. Students may not enroll in additional graduate courses until the undergraduate degree is completed.

Students will take a maximum of 6 hours of graduate credit per semester during the senior year, and 3 hours over the summer if available, with no more than 16 total credit hours total of both undergraduate and graduate coursework in a single semester.

Upon completion of the undergraduate portion, the student will then be classified as a graduate student. Students are awarded a Bachelor's degree as soon as those degree requirements are completed and are then admitted as candidates for the Master's degree. Students are awarded the master's degree when all graduate requirements are completed. If a student withdraws from the university and stops enrolling in coursework following completion of the Bachelor's degree and later wants to return, they will have to apply to the regular graduate program and no prior coursework may be applied.

Please note: enrollment may affect eligibility for financial aid and scholarships, please contact the Student Financial Services office at 660-543-8266 if you have any questions. For the purposes of financial aid and scholarships, students are considered to be at the undergraduate level until the Bachelor's degree is awarded. Students will be considered graduate level after the Bachelor's degree is awarded and the student is only taking graduate level courses. Students are eligible for graduate assistantships after receiving a Bachelor's degree.

Programs that are offered in the Accelerated model are as follows:

Actuarial Science and Statistics, BS (43-576) - Actuarial Science Option (AS01) (120 hours)

Actuarial Science and Statistics, BS (43-576) - Statistics Option (AS02) (120 hours)

Computer Science, BS (43-281) - Computer Networking Option (CS08) (120 hours)

Computer Science, BS (43-281) - Computer Science Option (CS02) (120 hours)

Computer Science, BS (43-281) - Data Science Option (CS09) (120 hours)

Computer Science, BS (43-281) - Game Development Option (CS04) (120 hours)

Computer Science, BS (43-281) - Software Development Option (CS07) (120 hours)

Cybersecurity, BS (43-892) (120 hours)

Mathematics, BS (43-454) (120 hours)

Occupational Safety, BS (43-873) - Environmental Management Option (OS01) (120 hours)

Occupational Safety, BS (43-873) - Occupational Health Management Option (OS03) (120 hours)

Occupational Safety, BS (43-873) - Safety Management Option (OS02) (120 hours)

Courses

A wildcard character can be used to enhance your search. For example: using an asterisk enter ACCT 3* to find all 3000-level ACCT courses.

For more information about courses or to request a copy of a course syllabus, contact the Academic School that offers the course.

ACCT 1101 - Foundations of Financial Reporting (3)

A foundational study of the formation of business entities, and managing and reporting the flow of financial information. Emphasis is on understanding the nature of financial transactions, and preparing and analyzing the resulting financial statements. Prerequisite(s): 15 earned credit hours. Fall, Spring, Summer.

ACCT 2000 - Accountancy Majors Practicum (1)

A detailed, hands-on application of processes used in double-entry accounting systems. Students will use special journals, general and subsidiary ledgers and 10-column worksheet, to recognize financial transactions and prepare basic financial statements. Course also exposes students to various career options within the field of accounting, including an understanding of prerequisites required for professional licensure. Prerequisite(s): ACCT 1101 with a C or better and declared major/minor in Accountancy.

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 1101 and/or ACCT 2102. Not available to students with credit in ACCT 2102. Spring.

ACCT 2102 - Principles of Managerial Accounting (3)

Development and use of cost and managerial accounting information for management control and decision making. Prerequisite(s): ACCT 1101 and MATH 1111. Fall, Spring, Summer.

ACCT 2901 - Intermediate Financial Accounting I (3)

Continuing the study of the accounting cycle, preparation of the financial statements, and an introduction to accounting theory and the conceptual framework. Prerequisite(s): ACCT 1101 with a C or better and a minimum GPA of 2.65. Fall, Spring.

ACCT 3102 - Intermediate Financial Accounting II (3)

The second course in the intermediate accounting series. An in-depth study of financial accounting theory and the application of generally accepted accounting principles used in financial reporting for corporate

entities, with an emphasis on inventories, long-term operational assets, intangible assets, current liabilities and long-term debt. Prerequisite(s): ACCT 2901 with a grade of C or better. An additional fee is associated with this course. Fall, Spring.

ACCT 3103 - Intermediate Financial Accounting III (3)

The final course in the intermediate accounting series. A discussion of relevant financial accounting theory and the application of generally accepted accounting principles used in financial reporting for corporate entities, with an emphasis on stockholder's equity, dilutive securities and earnings per share, investments, revenue recognition, income taxes, pensions and leases.

Prerequisite(s): ACCT 3102 with a grade of C or better. An additional fee is associated with this course. Fall, Spring.

ACCT 3120 - Cost and Managerial Accounting (3)

Application of accounting for managerial decision making, financial reporting and control for business enterprises. Prerequisite(s): ACCT 2102 and FIN 2801. Grade of C or better for all prerequisites. An additional fee is associated with this course. Fall, Spring.

ACCT 3130 - Introduction to Income Tax (3)

Federal income tax principles with focus on individuals. Course covers items of income (and exclusions from income), deductions (and relevant limitations), calculation of federal income tax, and credits against tax. Principles are applied, directly or indirectly, to everyday business transactions which a student will encounter in his/her accounting, tax or general business career. Prerequisite(s): ACCT 3102 with a grade of C or better. May be taken concurrently with ACCT 3103. An additional fee is associated with this course. Fall, Spring.

ACCT 3135 - Internship in Accounting (1-6)

Opportunity for students to gain theoretical knowledge and practical experience within a particular field of specialization. *May be repeated for a maximum of 9 semester hours.* Prerequisite(s): A declared Accounting major; Admission to the B.S.B.A. program; 60 semester hours; and overall GPA of 2.65 or above. An additional fee is associated with this course. Fall, Spring, Summer.

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. Prerequisite(s): ACCT 3102 with a grade of C or better. An additional fee is associated with this course. Fall, Spring.

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(s): ACCT 3103 with a grade of C or better and Admission to the B.S.B.A. program. An additional fee is associated with this course. Fall, Spring, Summer.

ACCT 4105 - Auditing (3)

Study of theory and practice relating to attestation engagements, professional liability and ethics. Prerequisite(s): ACCT 3103, ACCT 3120, and ACCT 3160 with a grade of C or better. Admission to the B.S.B.A. program. An additional fee is associated with this course. Fall, Spring.

ACCT 4130 - Advanced Income Tax (3)

Continuation of federal income tax principles with focus on business entities. Consideration of special treatment received by various business entities, including sole proprietorships, partnerships, and corporations. Major topics covered are business income, deductions, losses and loss limitations, property transactions and comparative forms of doing business. This course is co-listed with ACCT 5030. Prerequisite(s): ACCT 3130 with a grade of C or better. An additional fee is associated with this course. Fall, Spring.

ACCT 4165 - Special Projects in Accounting (1-3)

Individualized or group study under the supervision of school faculty. This course is co-listed with ACCT 5165. *May be repeated for a maximum of 6 semester hours.* Prerequisite(s): consent of instructor. An additional fee is associated with this course. Offered as needed.

ACCT 4200 - Governmental Accounting (2)

An in depth coverage of the theory and practice of accounting for state and local governmental entities and not-for-profit entities. Prerequisite(s): Admission to B.S.B.A. program and ACCT 3102 with a grade of C or better. An additional fee is associated with this course.

ACST 1100 - Essential Skills for Basic Statistics (2)

A corequisite for the general education math course ACST 1300 Basic Statistics. It helps students master the fundamental and technical mathematics skills needed for the success in the college-level course ACST 1300. Prerequisite(s): High school credit in basic algebra or MATH 1010. Placement according to University policy applies. Corequisite(s): ACST 1300.

ACST 1300 - Basic Statistics GE (3)

A study of elementary statistics. Topics include descriptive statistics, elementary probability theory, inferential statistics, and tests of statistical hypotheses. Prerequisite(s): High school algebra, MATH 1101, or higher MATH course. Placement according to University policy applies.

Corequisite(s): Through academic advising, it will be recommended that students who are eligible to take MATH 1101 may enroll in ACST 1100 as an alternative.

UCM General Education Competency: This course fulfills Knowledge Competency #7 and Foundational Skills Competency #3 in the Mathematics area of the UCM General Education Program.

This course is equivalent to MOTR MATH 110 Statistical Reasoning in the Mathematical Sciences Knowledge Area.

ACST 2310 - Statistics and Data Analysis (3)

A study of statistical thinking and data analysis. Topics include descriptive statistics, design of surveys and experiments, inferential statistics, hypothesis testing, categorical analysis, multiple regression analysis, and analysis of variance.

Prerequisite(s): MATH 1111 or MATH 1150 ; or concurrent with MATH 1131 or MATH 1151 An additional fee is associated with this course.

ACST 3311 - Introduction to Probability and Statistics (3)

This course provides a calculus based introduction to probability theory and statistics. Coverage includes probability and commonly used distributions, descriptive statistics, confidence intervals, hypothesis testing, correlation and simple linear regression. Prerequisite(s): MATH 1131 or MATH 1151. An additional fee is associated with this course. Fall.

ACST 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. This course is co-listed with ACST 5312. Prerequisite(s): MATH 2153 and ACST 3311. An additional fee is associated with this course.

ACST 4313 - Review for Actuarial Exam P/1 (1)

Problem solving strategies from probability that are uniquely applied to actuarial science. *May be repeated.* Prerequisite(s): ACST 4312. Corequisite(s): ACST 4312. An additional fee is associated with this course. Spring.

ACST 4315 - Mathematical Statistics (3)

Mathematical foundation of statistical inference. Topics include but are not limited to random sampling, sampling distributions, methods of estimation, properties of estimators, confidence intervals, hypothesis testing, and their applications. This course is co-listed with ACST 5315. Prerequisite(s): ACST 4312. An additional fee is associated with this course.

ACST 4321 - Regression Analysis (3)

Applied statistical models and methods with an emphasis on regression analysis. This course is co-listed with ACST 5321. Prerequisite(s): ACST 3311. An additional fee is associated with this course. Fall.

ACST 4322 - Time Series Models and Analysis (3)

Applied statistical models and methods with an emphasis on time series and forecasting. This course is co-listed with ACST 5322. Prerequisite(s): ACST 4321. An additional fee is associated with this course.

ACST 4323 - Statistical Aspects of Experimental Design (3)

Calculus based statistical aspects of experimental designs that include randomization, replication, blocking, and factorial experiments. This course is co-listed with ACST 5323. Prerequisite(s): ACST 3311. An additional fee is associated with this course.

ACST 4331 - SAS Programming for Statistical Analysis (3)

Introduction to SAS programming for statistical analysis, including reading, writing, managing, describing, and analyzing data, regression analysis, hypothesis testing, and analysis of variance. This course is co-listed with ACST 5361. Prerequisite(s): ACST 4321. An additional fee is associated with this course.

ACST 4390 - Internship in Actuarial Science or Statistics (1-6)

Opportunity for students to gain knowledge in areas of actuarial science, statistics, or data analysis, both theoretical and applied, that would not normally be included as a part of the curriculum. Internship contract must be completed prior to beginning work/learning experience. A maximum of 6 semester hours may be applied to any one degree. *May be repeated for a maximum of 12 semester hours.* Prerequisite(s): Consent of the Actuarial Science and Statistics Committee. An additional fee is associated with this course.

ACST 4510 - Mathematics of Finance (3)

The basic measures of interest, annuities, discounted cash flow analysis, and their applications. This course is co-listed with ACST 5510. Prerequisite(s): MATH 1152. An additional fee is associated with this course. Fall, Spring.

ACST 4511 - Review for Actuarial Exam FM/2 (1)

Problems from financial mathematics including modern financial analysis. *May be repeated.* Prerequisite(s): ACST 4510. An additional fee is associated with this course. Spring.

ACST 4520 - Life Contingencies I (3)

Theory and applications of contingency mathematics in the areas of life and health insurance, annuities and pensions. This course is co-listed with ACST 5520. Prerequisite(s): ACST 4312 and ACST 4510. An additional fee is associated with this course.

ACST 4530 - Statistical Modeling (3)

A model-based study of statistical data that is used in decision making. Models include aggregate loss models, construction of empirical models, parametric models, credibility models, and simulation. This course is co-listed with ACST 5530. Prerequisite(s): ACST 4321 and ACST 4312. An additional fee is associated with this course. Spring.

ACST 4645 - Senior Projects in Actuarial Science and Statistics (3)

A capstone experience for student majoring in Actuarial Science and Statistics, requiring students to integrate Actuarial Science or Statistics skills learned throughout their program of study to solve real world problems. The focus is on the use of technology, such as SAS, R, Microsoft Excel, and Actuarial Software Prophet, to solve complex problems and how to clearly communicate the results of analysis to a non-technical audience. The course will also include research into Professional Code of Ethics and the employment opportunities in actuarial science and statistics. Prerequisite(s): At least 80 hours completed. Corequisite(s): For Actuarial Option concurrent with ACST 4520; for Statistics Option concurrent with ACST 4321. An additional fee is associated with this course.

ACST 4910 - Special Topics in Actuarial Science or Statistics (1-3)

Individual reading and research on some topics not included in the regular offerings of the school. *May be repeated for a maximum of 6 semester hours.* Corequisite(s): Only available to Actuarial Science and Statistics majors. An additional fee is associated with this course.

AERO 1010 - Heritage and Values of the United States Air Force I (2)

A survey course designed to introduce students to the United States Air Force and provides an overview of the basic characteristics, missions, and organization of the Air Force. Applies communicative skills. Leadership lab.

AERO 1020 - Heritage and Values of the United States Air Force II (2)

Continues introducing students to the United States Air Force and provides an overview of the basic characteristics, missions, and organization of the Air Force. Applies communicative skills. Leadership lab. Prerequisite(s): AERO 1010.

AERO 2010 - The Evolution of USAF Air and Space Power (2)

A survey course that focuses on laying the foundation for teams and leadership. The topics include skills that will allow cadets to improve their leadership on a personal level and within a team. The courses will prepare cadets for their field training experience where they will be able to put the concepts learned into practice. The purpose is to instill a leadership mindset and to motivate sophomore students to transition from AFROTC cadet to AFROTC officer candidate. Applies communicative skills. Leadership lab. Prerequisite(s): AERO 1020.

AERO 2020 - Team and Leadership Fundamentals (2)

Continues laying the foundation for teams and leadership. The topics include skills that will allow cadets to improve their leadership on a personal level and within a team. The courses will prepare cadets for their field training experience where they will be able to put the concepts learned into practice. The purpose is to instill a leadership mindset and to motivate sophomore students to transition from AFROTC cadet to AFROTC officer candidate. Applies communicative skills. Leadership lab. Prerequisite(s): AERO 2010.

AERO 3010 - Leading People and Effective Communication I (3)

Focuses on teaching cadets advanced skills and knowledge in management and leadership. Special emphasis is placed on enhancing leadership skills and communication. Cadets have an opportunity to try out these leadership and management techniques in a supervised environment as juniors and seniors. Leadership lab. Prerequisite(s): AERO 2020.

AERO 3020 - Leading People and Effective Communication II (3)

Continues teaching cadets advanced skills and knowledge in management and leadership. Special emphasis is placed on enhancing leadership skills and communication. Cadets have an opportunity to try out these leadership and management techniques in a supervised environment as juniors and seniors. Leadership lab. Prerequisite(s): AERO 3010.

AERO 4010 - National Security Affairs/Preparation for Active Duty I (3)

Designed for college seniors and gives them the foundation to understand their role as military officers in American society. It is an overview of the complex social and political issues facing the military profession

and requires a measure of sophistication commensurate with the senior college level. The final semester provides information that will prepare the cadets for Active Duty. Leadership lab.

Prerequisite(s): AERO 3020.

AERO 4020 - National Security Affairs/Preparation for Active Duty II (3)

Continuation for college seniors and gives them the foundation to understand their role as military officers in American society. It is an overview of the complex social and political issues facing the military profession and requires a measure of sophistication commensurate with the senior college level. The final semester provides information that will prepare the cadets for Active Duty. Leadership laboratory. Prerequisite(s): AERO 4010.

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(s): School consent.

AGRI 1100 - Strategies for Success in the UCM Agriculture Program (1)

Introduction to the agriculture faculty, facilities, and academic resources available to UCM agriculture students. Students will prepare a plan of study to ensure graduation in four years and will prepare resumes and learn job search skills needed to secure internships required for graduation. Must be taken during the first year of the agriculture program. Fall.

AGRI 1200 - Agriculture Mechanics (3: 2 lecture, 1 lab)

Basic skills in agricultural mechanics including mechanics safety, tool identification and use, electrical wiring, agriculture structures/carpentry, concrete, plumbing, arc and MIG welding, oxy-fuel welding and cutting, surveying, fence building and basic engine maintenance. An additional fee is associated with this course.

AGRI 1300 - Introduction to Plant Science (1: 1 lecture, 0 lab)

Emphasis on the structure/function relationships of anatomy, morphology, and physiology of agriculture crops.

AGRI 1310 - Agronomy I: Row Crops (2: 2 lecture, 0 lab)

Principles and practices in cereal crop production. Prerequisite(s): AGRI 1300.

AGRI 1420 - Introduction to Animal Science (3: 2 lecture, 1 lab)

Discuss the evaluation of basic biological systems of the farm animal livestock species including behavior, immunology, circulatory, muscular, skeletal, digestive, and reproductive systems and functions of those systems. In addition, societal issues regarding animal production will be discussed. An additional fee is associated with this course.

AGRI 1600 - Introduction to Horticulture Science GE (4: 3 lecture, 1 lab)

A basic introduction to plant science with an examination of the nature of science with an emphasis on horticulturally-significant plants, specifically vegetables, fruits, and ornamentals. The basic areas of plant

taxonomy, anatomy, morphology, physiology, diversity, and practical knowledge needed to grow these plants will be covered. An additional fee is associated with this course.

UCM General Education Competency: This course fulfills Knowledge Competency #7 and reinforces Foundational Skills Competency #3 in the Science with a Laboratory area of the UCM General Education Program.

AGRI 2110 - Agricultural Records (3)

Fundamental principles and practices of record buyers as applied to the organization and operation of agricultural enterprises.

AGRI 2120 - Agricultural Cooperatives (1)

Environment, organization and business function of modern agricultural cooperatives. Prerequisite(s): ECON 1011.

AGRI 2130 - Global Agriculture GE (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.

UCM General Education Competency: This course fulfills Knowledge Competency #9 and Foundational Skills Competency #4 in the Engagement area of the UCM General Education Program.

AGRI 2315 - Agronomy II: Forages (2)

Principles and practices of forage crop production. Prerequisite(s): AGRI 1300.

AGRI 2330 - Introduction to Soil Science (3: 2 lecture, 1 lab)

Chemical and physical properties of soils. Prerequisite(s): CHEM 1104 or CHEM 1131. An additional fee is associated with this course. Fall.

AGRI 2331 - Soils (3)

Emphasis on soil formation, classification, and fertility. Prerequisite(s): AGRI 2330. Spring.

AGRI 2425 - Introduction to Animal Production (3: 3 lecture, 0 lab)

Discuss the fundamental principles of farm animal livestock management and evaluation through the application of animal science methodologies to animal production techniques. Prerequisite(s): AGRI 1420. An additional fee is associated with this course. Spring.

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. Prerequisite(s): ECON 1011; MATH 1111 or concurrently. Fall.

AGRI 3120 - Distribution and Marketing Agriculture Products (3)

Principles governing the distribution, prices, and marketing of agriculture products. Prerequisite(s): ECON 1011. Fall.

AGRI 3140 - Agricultural Analysis and Statistics (3)

Statistical analysis and experimental designs as applied to agriculture. Prerequisite(s): MATH 1111. Fall.

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. An additional fee is associated with this course. Spring.

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(s): AGRI 2330.

AGRI 3320 - Field Crop Management (3)

Management of crops, crop rotation, and crop utilization. Prerequisite(s): AGRI 1310 or AGRI 2315, and AGRI 2330.

AGRI 3410 - Animal Breeding (3)

Selecting and improving livestock through genetic principles, breeding systems, and visual evaluation. Prerequisite(s): AGRI 1420 and AGRI 2425. Fall.

AGRI 3415 - Meat Science (2: 1 lecture, 1 lab)

Principles of meat processing, inspection, grading, sanitation, preservation and storage with an overview of muscle composition, structure, function, and nutritive value. An additional fee is associated with this course. Spring.

AGRI 3420 - Animal Nutrition (3: 2 lecture, 1 lab)

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. Prerequisite(s): AGRI 1420. An additional fee is associated with this course. Fall.

AGRI 3610 - Agriculture Pest Management (3)

Insect control with emphasis on recognition of destructive forms, general principles of insect habits and classification. An additional fee is associated with this course.

AGRI 3620 - Residential Landscape Design (3: 2 lecture, 1 lab)

Theory and practice of landscaping the home, farmstead, and small properties, including elementary design, soil preparation, selection of plant material, and cultural practices. An additional fee is associated with this course. Spring.

AGRI 3640 - Horticultural Propagation Materials (3: 2 lecture, 1 lab)

Includes materials, types of plants, structure of plants, and methods used in propagation. Prerequisite(s): AGRI 1600. An additional fee is associated with this course.

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(s): consent.

AGRI 4000 - Special Projects in Agriculture (1-6)

Investigation of contemporary problems and issues in agriculture by selected individuals or groups. *May be repeated for a maximum of 9 semester hours.* An additional fee is associated with some sections of this course.

AGRI 4101 - Agricultural Capstone Experience (3)

Integration of agricultural knowledge and problem solving skills using case studies in a seminar forum. Prerequisite(s): 24 semester hours of agriculture courses and senior standing.

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. Prerequisite(s): AGRI 3120.

AGRI 4120 - International Agriculture (3)

Economic, cultural, governmental and environmental factors which influence agricultural production and trade among countries. This course is co-listed with AGRI 5120. Prerequisite(s): AGRI 2130 and AGRI 3120. Spring.

AGRI 4140 - Agricultural Policy (3)

History, principles, settings, objectives, and methods of policy development as applied to agriculture in our society. This course is co-listed with AGRI 5140. Prerequisite(s): AGRI 3110 and AGRI 3120. Spring.

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. This course is co-listed with AGRI 5150. Prerequisite(s): ECON 1010 and ECON 1011.

AGRI 4200 - Advanced Agriculture Mechanics (3)

Advanced skills in agricultural mechanics for use in all agricultural areas dealing with construction of farm buildings. Course content includes Ag mechanics safety, building a small portable building, and repair and overhaul of small gasoline engines. Prerequisite(s): AGRI 1200.

AGRI 4300 - Soil Fertility and Fertilizers (3)

Theory and practice of utilizing agricultural fertilizers to maximize soil productivity. Prerequisite(s): AGRI 2330. Spring.

AGRI 4310 - Plant Breeding and Genetics (3)

The principles involved in the selection and development of economically important plants. Traditional and modern practices (cell culture and biotechnology) will be discussed. Prerequisite(s): AGRI 1600 or AGRI 2315 or BIOL 1111. An additional fee is associated with this course. Fall.

AGRI 4320 - Plant Diseases (3)

An introduction to plant diseases with emphasis on recognition and control of economically and environmentally important species. Prerequisite(s): AGRI 1600 or AGRI 1310 or AGRI 2315 or BIOL 1111. Fall.

AGRI 4330 - Soils Management (3)

Principles of soils management as applied to physical improvement and fertility maintenance of soils. Prerequisite(s): AGRI 2330.

AGRI 4340 - Agricultural Sprays and Chemicals (3: 3 lecture, 0 lab)

Types of agricultural chemicals and their application in control of insects, parasites, and weeds. Prerequisite(s): AGRI 2330; AGRI 1310 or AGRI 2315. Fall.

AGRI 4410 - General Veterinary Science (3)

Anatomy, physiology, disease control, parasitic control, and sanitation of farm animals. This course is co-listed with AGRI 5510. Prerequisite(s): AGRI 1420 and CHEM 1104. Spring.

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. Prerequisite(s): AGRI 1420 and AGRI 3410. An additional fee is associated with this course.

AGRI 4430 - Animal Science: Beef (3)

Systems of beef production. Includes breeding, feeding, and management of commercial and purebred beef. This course is co-listed with AGRI 5430. Prerequisite(s): AGRI 1420. An additional fee is associated with this course. Spring.

AGRI 4435 - Animal Science: Pork (3)

Systems of pork production. Includes breeding, feeding, and management of commercial and purebred swine. This course is co-listed with AGRI 5435. Prerequisite(s): AGRI 1420. An additional fee is associated with this course. Spring.

AGRI 4440 - Advanced Beef Cattle and Swine Production (4: 3 lecture, 1 lab)

Management techniques utilized in commercial and purebred beef cattle and swine production. The four production segments for each industry will be covered. For each segment of the industry, appropriate information pertaining to reproduction, genetics and selection strategies, nutrition, and health management will be discussed in class lecture and performed in hands-on laboratories. Prerequisite(s): AGRI 1420 and AGRI 2425. An additional fee is associated with this class.

AGRI 4600 - Horticultural Plants I: Woody (3: 2 lecture, 1 lab)

Identification, description, climatic adaptation, classification, characteristics and best landscape use of woody horticultural trees and shrubs. This course is co-listed with AGRI 5600. Prerequisite(s): AGRI 1600 or BIOL 1111. An additional fee is associated with this course. Fall.

AGRI 4605 - Horticultural Plants II: Herbaceous (3: 2 lecture, 1 lab)

Identification, description, adaptation, classification, cultural characteristics and best use of herbaceous horticultural plants. This course is co-listed with AGRI 5605. Prerequisite(s): AGRI 1600. An additional fee is associated with this course.

AGRI 4610 - Turfgrass Science (3: 2 lecture, 1 lab)

Selection, identification, establishment and maintenance of turfgrasses. This course is co-listed with AGRI 5610. Prerequisite(s): AGRI 1600 and AGRI 2330. An additional fee is associated with this course.

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(s): consent.

AGRI 4900 - Planning and Conducting Programs in Agricultural Education (2)

Development and organization of vocational agriculture programs at the secondary level to meet the needs of local schools and community.

This is a professional education course.

AGRI 4910 - Supervised Agriculture Experience Programs in Agricultural Education (2)

Understandings and competencies required to establish, administer, and evaluate supervised agricultural experience programs. Prerequisite(s): AGRI 4930.

This is a professional education course.

AGRI 4920 - Lab Management in Agricultural Education (2)

The selection and organization of teaching materials for agriculture labs, planning facilities, selection of supplies essential in establishing and teaching agriculture labs. Prerequisite(s): AGRI 4900.

This is a professional education course.

AGRI 4930 - Methods of Teaching Agricultural Education (2)

Fundamentals of Agricultural Education including: Foundations of Agricultural Education, methods of teaching Ag Ed, teaching special populations, and evaluation of the learning process. Prerequisite(s): admission to Teacher Education Program.

This is a professional education course.

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. Prerequisite(s): admission to Teacher Education Program; should be taken concurrently with AGRI 4930 during the Professional semester. Spring.

This is a professional education course.

ANTH 1810 - Human Prehistory GE (3)

Surveys the empirical evidence of fossils and artifacts for human biological and cultural origins from circa five million to five thousand years ago.

UCM General Education Competency: This course fulfills Knowledge Competency #7 and Foundational Skills Competency #4 in the Science non-laboratory area of the UCM General Education Program.

ANTH 1820 - Cultural Anthropology GE (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.

UCM General Education Competency: This course fulfills Knowledge Competency #9 and Foundational Skills Competency #4 in the Engagement area of the UCM General Education Program.

This is a sustainability course.

ANTH 2820 - Anthropology of Food GE (3)

Delves into how and why we eat what we eat. Students approach food, drink, spices, and drugs in terms of evolution and culture.

UCM General Education Competency: This course fulfills Knowledge Competency #8 and reinforces Foundational Skills Competency #1 in the Social & Behavioral Sciences area of the UCM General Education Program.

ANTH 2830 - Hoax and Myth in Anthropology (3)

The anatomy of significant archaeological hoaxes, outrageous claims, and anthropology in popular culture are examined. This course provides tools and critical thinking skills for evaluation of claims and proposed evidence in science and pseudo-science.

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 3810 - Applied Anthropology (3)

Applications of the four major subfields of anthropology: cultural anthropology, physical anthropology, archaeology, and linguistics.

This is a sustainability course.

ANTH 3820 - World 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 3830 - Anthropological Linguistics (3)

Introduction to study of languages and their acquisition, phonology, morphology and syntax, orthography, modality and proxemics. Students also complete observations of language use among primates and human populations, and create their own languages.

ANTH 3840 - Human Variation (3)

Recent human physical variation is studied through the concepts of biogeography, microevolution, genetics, and anatomy. This course provides context to address differences and similarities of human groups around the world today.

ANTH 3850 - Globalization and Culture (3)

A survey of extant indigenous and non-Western cultures with a focus on 21st century cultural developments, and application of cross-cultural and material culture study methods.

ANTH 4810 - Forensic Anthropology (3)

The study of human skeletons and bone structure, including the proper identification of variations of age, sex, ancestry and causes of death.

ANTH 4815 - Special Projects in Anthropology (1-6)

Study, interpretation, and discussion of special topics and problems in anthropology. This course is co-listed with ANTH 5815. *May be repeated for a maximum of 15 semester hours.* Prerequisite(s): consent of instructor.

ANTH 4820 - Anthropology of Gender (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. This course is co-listed with ANTH 5820.

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. This course is co-listed with ANTH 5830.

ANTH 4835 - Anthropological Study Tour (3)

A faculty-led course abroad allowing students to incorporate and apply anthropological theories and practices in an international experience, such as assessing museum exhibits. This course is co-listed with ANTH 5835.

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. This course is co-listed with ANTH 5840.

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. This course is co-listed with ANTH 5850.

ANTH 4860 - Museum Studies (3)

Introduction to museum professionalism, including ethical and legal concerns, collections care, exhibition and interpretation, and curatorship. Includes field experience and practicum hours in museum collections. This course is co-listed with ANTH 5860.

ANTH 4870 - Ethnographic Methods (3)

Introduction to ethnography and ethnographic method, including IRB training, participant observation, data collection, data analysis, and writing ethnography. Students will perform their own ethnographic research. This course is co-listed with ANTH 5870.

This is a sustainability course.

ANTH 4880 - Human Evolution (3)

Fossils of human ancestors are assessed through the concepts of primate comparative anatomy, behavior, macroevolution, and genetics. This course deeply investigates what it means to be human through our ancestors and relatives. This course is co-listed with ANTH 5880.

ANTH 4885 - Practicum (1-6)

Field-based research and training for Anthropology majors, to include internships, lab practica, and conducting original research projects. Prerequisite(s): Anthropology major.

ANTH 4890 - Anthropology Senior Seminar (3)

A capstone course that integrates the ethics, theories, and methods of all subfields of anthropology through in-depth readings, discussion, research, and presentations. Required for all Anthropology majors.

ART 1010 - Special Projects in Art (1-3)

May be repeated as topics vary. Prerequisite(s): Instructor consent. Offered as needed.

ART 1110 - Drawing I (3)

Basic principles of perspective and composition through problems in landscape and still life. Fall, Spring, Summer.

This course is equivalent to MOTR DRAW 100 Introduction to Drawing in the Humanities & Fine Arts Knowledge Area.

ART 1120 - Drawing II (3)

Compositional drawing in various media including ink wash and pen and ink. Prerequisite(s): ART 1110. Fall, Spring, Summer.

ART 1211 - Photography I (3)

An introductory level course that explores both a conceptual foundation and a practical application of the photographic medium and photography's ongoing importance in the digital era as a communication form. Fundamental digital camera operations, photographic technique, digital capture, image design, lighting and image evaluation will be explored. Consideration of aesthetic qualities, learning to see photographically, basic concept development, and meaning will be examined through creation of original artwork. This course is designed for anyone wishing to develop creative skills and an appreciation of photography as both a fine and applied art. No previous experience with photography is required.

ART 1300 - Interior Design Drafting I (3)

This is an introductory course in freehand sketching, manual drafting and computer-aided drafting/design (CAD). The course introduces students to the sketching and drafting skills and techniques necessary for design communication and presentation of interior design solutions. Student owned laptop and software are required for this course. An additional fee is associated with this course.

ART 1315 - Foundation I (3: 0 lecture, 3 lab)

The first course of a year-long two-part course sequence, Foundation I and II introduce the use of the visual elements within the context of the principles of design. Student owned laptop and software are required for this course. One-hour non-credit lecture required. An additional fee is associated with this course. Fall, Spring.

ART 1325 - Foundation II (3: 0 lecture, 3 lab)

The second course of a year-long two-part course sequence, Foundation I and II introduce the use of the visual elements within the context of the principles of design. Student owned laptop and software are

required for this course. One-hour non-credit lecture required. Prerequisite(s): ART 1315. An additional fee is associated with this course. Fall, Spring.

ART 1335 - Art Camp (3)

This course combines singular and group based art making prompts during a week-long 24/7 summer camping experience. Students will learn about and work with sound, video, performance, site specific art, and happenings in addition to traditional mediums/materials (drawing, painting, photo, etc.). Students will also learn to professionally curate and install a cohesive culminating exhibition of works created during, or inspired by, the Art Camp experience. Prerequisite(s): ART 1315 and ART 1325. An additional fee is associated with this course. Summer.

ART 1610 - Web Languages GE (3)

An introduction to computer code languages used in content creation for online media. Students will use HTML to structure web pages and place text, images, and multimedia, CSS to format elements for style and communication, and Javascript to manage interactions in web accessible media.

UCM General Education Competency: This course fulfills Foundational Skills Competency #5 in the Managing Information area of the UCM General Education Program.

ART 1620 - Web Graphics GE (3)

An introduction to the production of visual and graphical assets and their integration with web language code for design and communication in web accessible media. An examination of the social, political, cultural, and economic context of images and graphics online.

UCM General Education Competency: This course fulfills Knowledge Competency #6 and reinforces Foundational Skills Competency #5 in the Humanities area of the UCM General Education Program.

ART 1800 - Ideas and the Visual Arts GE (3)

Engages students in critical and creative thinking about broad topics in the visual arts ranging from questions about the nature of art (aesthetics), to describing and interpreting works of art (art criticism), to art historical and cultural contexts (art history), and elements and principles of art and design (studio art). Fall, Spring, Summer.

UCM General Education Competency: This course fulfills Knowledge Competency #6 and reinforces Foundational Skills Competency #4 in the Fine Arts area of the UCM General Education Program.

This course is equivalent to MOTR ART 101 Art Appreciation in the Humanities & Fine Arts Knowledge Area.

ART 1815 - Art History Survey I GE (3)

An introductory survey of art in the Western world from prehistoric origins through the Middle Ages (caves to cathedrals) using art historical description and interpretation based on the social, cultural, intellectual, political, and religious contexts that produced it. Fall.

UCM General Education Competency: This course fulfills Knowledge Competency #6 and reinforces Foundational Skills Competency #4 in the Fine Arts area of the UCM General Education Program.

This course is equivalent to MOTR ARHS 101 Art History I in the Humanities & Fine Arts Knowledge Area.

ART 1825 - Art History Survey II GE (3)

An introductory survey of art in the Western world from the Middle Ages to the art of today using art historical description and interpretation based on the social, cultural, intellectual, political, and religious contexts that produced it. Spring.

UCM General Education Competency: This course fulfills Knowledge Competency #6 and reinforces Foundational Skills Competency #4 in the Fine Arts area of the UCM General Education Program.

This course is equivalent to MOTR ARHS 102 Art History II in the Humanities & Fine Arts Knowledge Area.

ART 1835 - Global Arts and Culture GE (3)

A survey of the visual, cultural and aesthetic developments of sculpture, paintings, and architecture in non-Western traditions: Asian, African, Islamic Art, Oceanic Art and Art of the Americas.

UCM General Education Competency: This course fulfills Knowledge Competency #6 and reinforces Foundational Skills Competency #4 in the Fine Arts area of the UCM General Education Program.

ART 2010 - Special Projects in Art (1-3)

May be repeated as topics vary. Prerequisite(s): Instructor consent. Offered as needed.

ART 2211 - Photography II (3)

This course reinforces technical and aesthetic skills mastered in Photography I and expands upon critical thinking skills of seeing, thinking, and creating to explore photography as a conceptual tool. Students will learn a structured approach to working with and thinking about photography to foster the development of long-term, self-directed, and conceptually coherent body of work. Students will develop an understanding and control of lighting as a means for creative control on location and in a studio environment. Students will develop an understanding of how we see and recognize color as a visual tool for image creation, communication and creativity. Prerequisite(s): ART 1211

ART 2300 - Interior Design Drafting II (3)

An advanced course building upon skill acquired in ART 1300 Interior Design Drafting I. The course offers advanced instruction on 3D modeling through building information modeling (BIM), parametric building design, and rendering necessary for design communication and presentation of interior design solutions. Student owned laptop and software are required for this course. Prerequisite(s): ART 1300. An additional fee is associated with this course.

ART 2305 - 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. Student owned laptop and software are required for this course. Prerequisite(s): ART 1325 and ART 2310. An additional fee is associated with this course. Fall.

ART 2310 - Interior Design Studio I (3)

An overview of the profession with an introduction to necessary skills for the practice of interior design: creative problem solving, space planning, drafting, presentation techniques. Student owned laptop and software are required for this course. Prerequisite(s): ART 1110 and ART 1315. An additional fee is associated with this course. Spring.

ART 2320 - Building Systems and Sustainability (3)

Provides an overview of construction and building systems as they relate to interior design. Provide knowledge of theoretical and technical content of interior design practice. Student owned laptop and software are required for this course. Prerequisite(s): ART 1120 and ART 2310 for art majors; CADD 1110 or consent of instructor for nonmajors. An additional fee is associated with this course.

ART 2330 - Interior Design Studio II (3)

A study of traditional interior design problems. An emphasis in architectural interior elements, interior surfaces, finishes, and application. Student owned laptop and software are required for this course. Prerequisite(s): ART 2320 for art majors; consent of instructor for nonmajors. An additional fee is associated with this course. Spring.

ART 2335 - 3-D Design (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(s): ART 1315. An additional fee is associated with this course. Fall, Spring, Summer.

ART 2340 - Materials, Methods and Specifications (3)

Introduction to the materials utilized in interior design. Additional information on installation and appropriate use and care. Emphasis placed on developing and writing specifications. Student owned laptop and software are required for this course. Prerequisite(s): ART 2310. An additional fee is associated with this course.

ART 2350 - Interior Design Building Codes and Regulations (3)

To develop an understanding of the codes, regulations, guidelines and standards that affect the interior design of both residential and commercial buildings. Opportunities to work with and apply regulations to a wide range of interior scenarios. Prerequisite(s): ART 2320. Spring.

ART 2360 - Interior Design Environmental Systems (3)

Intermediate work in interior design involving environmental systems with emphasis placed on the understanding and application of acoustics, air quality and lighting design and documentation for interiors. Student owned laptop and software are required for this course. Prerequisite(s): ART 2320. Spring.

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. Fall, Spring, Summer.

ART 2420 - Sculpture I (3)

Fundamentals in sculpture including additive, subtractive, and construction techniques. An additional fee is associated with this course. Fall, Spring.

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. Prerequisite(s): ART 1110 and ART 1315. Fall, Spring, Summer.

ART 2610 - Introduction to Graphic Design and Illustration (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. Student owned laptop and software are required for this course. Prerequisite(s): ART 1110 and ART 1315. Graphic arts majors - GRAP 2030 and GRAP 2031. An additional fee is associated with this course. Fall, Spring.

ART 2620 - 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. Student owned laptop and software are required for this course. Prerequisite(s): ART 1110 and ART 1315. Graphic arts majors - GRAP 2030 and GRAP 2031. An additional fee is associated with this course. Fall, Spring.

ART 2710 - Printmaking I (3)

Designed to acquaint the student with the basics of various printmaking processes. Prerequisite(s): ART 1110 and ART 1315. An additional fee is associated with this course. Fall, Spring.

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.* Prerequisite(s): ART 1120 and ART 3209. Fall, Spring, Summer.

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(s): ART 1110. An additional fee is associated with this course. Fall, Spring.

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(s): ART 3209. An additional fee is associated with this course. Fall, Spring.

ART 3211 - Photography III (3)

This course explores the creative possibilities of the photographic image through experimentation with a variety of processes, techniques, and approaches to working with and thinking about photography. Development of skills and techniques in film photography printing and experimentation. Participate in interdisciplinary dialogue about how photography does more than record the world and explores current trends, philosophies, hybrid forms, and techniques of photography. Prerequisite(s): ART 2211 and PHOT 2215.

ART 3221 - Art in Theory: Contemporary Practice (3)

Using a thematic approach, this course synthesizes art history, criticism, aesthetics, and ideation with the end goal of enhancing the relevance of theory for practicing artists, designers and educators. Investigating historical and contemporary exemplars, students will engage with assigned readings, writings, classroom discussions, and prompt-based production. Prerequisite(s): ART 1315 and ART 1325. Fall, Spring.

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. Fall, Spring.

ART 3320 - Professional Practice for Interior Design I (1)

Provides an introduction to business practices and procedures as they apply specifically to the professional practice of interior design. Students will develop a basic understanding of the interior design field and develop a plan for obtaining an internship. Student owned laptop and software are required for this course. Prerequisite(s): ART 2310. Spring, in even numbered years only

ART 3330 - Interior Design Studio III (3)

Involves intermediate level work in interior design studio problems related to retail and hospitality with an emphasis on experience design, safety and environmental comfort for interiors. Student owned laptop and software are required for this course. Prerequisite(s): ART 2330. An additional fee is associated with this course. Fall.

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. Student owned laptop and software are required for this course. Prerequisite(s): ART 2320. An additional fee is associated with this course.

ART 3350 - Construction Documentation for Interior Design (3)

Studio course that engages students in the practice of communicating design intentions and construction quality to other building professionals through the creation of construction drawings. Partial set of construction documents utilizing Building Information Modeling (BIM) system will be created. Student owned laptop and software are required for this course. Prerequisite(s): ART 2330. Fee: An additional fee is associated with this course. Fall.

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(s): ART 2412. An additional fee is associated with this course. Fall, Spring, Summer.

ART 3420 - Sculpture II (3)

An intermediate level studio art course in sculpture focusing on the introduction of various 3D techniques, materials, media and advancing the student's ability to solve artistic problems. Prerequisite(s): ART 2420. An additional fee is associated with this course. Fall, Spring.

ART 3440 - Sculpture III (3)

An advanced-intermediate level studio art course in sculpture that builds on and adds to the student's repertoire of 3D techniques, materials, media and increases their ability to solve artistic problems. Prerequisite(s): ART 3420. An additional fee is associated with this course. Fall, Spring.

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.* Prerequisite(s): ART 1110 and ART 1315. Fall, Spring, Summer.

ART 3511 - Painting II (3)

Study and practice in basic painting techniques. *May be repeated for a maximum of 9 semester hours.* Prerequisite(s): ART 2511. Fall, Spring, Summer.

ART 3513 - Painting II: Plein Air (3)

Working in the landscape utilizing direct observation to study and practice basic painting skills. *May be repeated for a maximum of 9 semester hours.* Prerequisite(s): ART 2511. Fall.

ART 3515 - Painting II: Figure (3)

Working from the figure utilizing direct observation to study and practice basic painting skills. *May be repeated for a maximum of 9 semester hours.* Prerequisite(s): ART 2511. Spring.

ART 3620 - Graphic Design 1A (3)

Studio course where students build upon foundation skills in graphic design and competencies in the areas of technology and critical & creative thinking to produce personal works that demonstrate an understanding of basic principles involved in communication design for a wide variety of client service and societal needs. Prerequisite(s): ART 2610 and ART 2620. An additional fee is associated with this course. Fall, Spring.

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(s): ART 2610. An additional fee is associated with this course. Fall.

ART 3630 - Graphic Design 1B (3)

Studio course where students build upon foundation skills in graphic design and competencies in the areas of technology and critical & creative thinking to produce personal works that demonstrate an understanding of basic principles involved in communication design for a wide variety of client service and societal needs. Prerequisite(s): ART 2610 and ART 2620. An additional fee is associated with this course. Fall, Spring.

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(s): ART 3625. An additional fee is associated with this course. Spring.

ART 3640 - Graphic Design 2A (3)

Studio course where students build upon an understanding of principles and basic skills in graphic design to produce personal works that demonstrate an application of intermediate competency involved in communication design for a wide variety of client service needs. Students demonstrate an additional understanding of issues related to history, theory, and context of design works. Prerequisite(s): ART 3620 and ART 3630. An additional fee is associated with this course.

ART 3650 - Graphic Design 2B (3)

Studio course where students build upon an understanding of principles and basic skills in graphic design to produce personal works that demonstrate an application of intermediate competency involved in communication design for a wide variety of client service needs. Students demonstrate an additional understanding of issues related to history, theory, and context of design works. Prerequisite(s): ART 3620 and ART 3630. An additional fee is associated with this course. Fall, Spring.

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. Prerequisite(s): ART 2610 and ART 2620. An additional fee is associated with this course.

ART 3680 - History of Graphic Design (3)

A survey of graphic design from pre-history through the digital age introduced by analysis of major works and movements of graphic design within the context of their time and influence on later works. Spring, Summer.

ART 3710 - Printmaking II (3)

Advanced techniques are explored in one or more of the four printmaking processes. *May be repeated for a maximum of 12 semester hours.* Prerequisite(s): ART 2710. An additional fee is associated with this course. Fall, Spring.

ART 3720 - Printmaking III (3)

Individual artistic direction is developed in one of the four printmaking processes. *May be repeated for a maximum of 12 semester hours.* Prerequisite(s): ART 3710. An additional fee is associated with this course. Fall, Spring.

ART 3800 - History of Furniture and Interiors I (3)

Surveys the influence of culture, significant events, and technology on the development of furniture and interior design from ancient civilizations through the fourteenth century. Fall.

ART 3850 - History of Furniture and Interiors II (3)

Surveys the influence of culture, significant events, and technology on the development of furniture and interior design from the fifteenth century (Baroque period) to present day. Student owned laptop and software are required for this course. Spring.

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. Fall, Spring, Summer.

This is a professional education course.

ART 3911 - Art Education Foundations and Literacy (2)

The first in a series of four art education methods courses and is designed to introduce students to current theory in the art education field, including holistic development, literacy in the visual arts, lesson planning, and studio processes. Prerequisite(s): ART 1110 and ART 1315. An additional fee is associated with this course. Fall.

This is a professional education course.

ART 3915 - Methods of Teaching Art I: Media and Curriculum (2)

The art teacher's role in teaching art production, art history, art criticism and aesthetics, along classroom management for children ages 4 through 12, will be explored. Prerequisite(s): ART 1110, ART 1315, ART 3911. Corequisite(s): FLDX 3000. An additional fee is associated with this course. Spring.

This is a professional education course.

ART 4010 - Special Projects in Art (1-3)

This course is co-listed with ART 5010. *May be repeated as topics vary.* Prerequisite(s): instructor consent. Offered as needed.

This is a sustainability course.

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(s): senior year with consent. An additional fee is associated with this course. Fall, Spring.

ART 4211 - Photography IV (3)

Advanced level course involving the planning, preparation, and production of an exhibition-quality portfolio that reflects a personal style with clear and consistent intentions. This entails development and care of high quality photographic prints, print presentation and artist statement. Professional practices will be explored along with the development of professional materials. Critiques will be a regular part of the course. *May be repeated for up to 6 semester hours.* Studio Art Lab. Prerequisite(s): ART 3211.

ART 4310 - Interior Design Internship (1-3)

A required course for interior design 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(s): ART 3320. Fall, Spring, Summer.

ART 4320 - Professional Practice for Interior Design II (2)

Pursues a survey of business practices and procedures as they apply specifically to the professional practice of interior design. Exposure to contemporary issues in interior design (right to practice, business laws and ethics) coupled with the study of how interior design projects proceed from the Design Documentation Phase to the Project Closeout Phase help to prepare the entry-level interior designer for practice. Spring.

ART 4324 - Papermaking (3)

Introduces the student to western techniques in hand papermaking: sheet forming and two- and three-dimensional paper structures. This course is co-listed with ART 5324. *May be repeated for a maximum of 9 semester hours.* Prerequisite(s): 20 semester hours of art. Summer.

ART 4340 - Interior Design Studio IV (3)

Advanced work in interior design studio problems. Advanced programming and increasing emphasis on spatial development in predominantly commercial and/or institutional environments. Student owned laptop and software are required for this course. *May be repeated for a maximum of 6 semester hours.* Prerequisite(s): ART 3330 for art majors; consent of instructor for nonmajors. An additional fee is associated with this course. Spring.

This is a sustainability course.

ART 4350 - Interior Design Thesis I (3)

Summative course for the independent proposal of a unique interior design project. Preliminary work on portfolio and related documents necessary for a career placement search. Prerequisite(s): ART 4340.

ART 4360 - Interior Design Thesis II (3)

Design documentation and implementation of a unique interior design project previously proposed. Completing work on portfolio and related documents necessary for a career placement search. Prerequisite(s): ART 4350.

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(s): ART 3412. An additional fee is associated with this course. Fall, Spring, Summer.

ART 4420 - Sculpture IV (3)

A repeatable advanced level studio art course in sculpture that allows students to consolidate and increase their skills and abilities while they build a significant body of sculptural work. *May be repeated.* Prerequisite(s): ART 3440. An additional fee is associated with this course. Fall, Spring.

ART 4434 - Creative Bookbinding (3)

Introduction to the art and craft of the artist's book, including the technical and creative aspects of historical and contemporary bookbinding. *May be repeated for a maximum of 6 semester hours.* Spring.

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.* Prerequisite(s): ART 3511 or ART 3513 or ART 3515. Fall, Spring, Summer.

ART 4513 - Painting III: Plein Air (3)

Working in the landscape utilizing direct observation to develop advanced painting skills. *May be repeated for a maximum of 9 semester hours.* Prerequisite(s): ART 3511 or ART 3513 or ART 3515. Fall.

ART 4515 - Painting III: Figure (3)

Working from the figure utilizing direct observation to develop advanced painting skills. *May be repeated for a maximum of 9 semester hours.* Prerequisite(s): ART 3511 or ART 3513 or ART 3515. Spring.

ART 4600 - Graphic Design Internship (1-6)

An elective course for graphic design 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(s): a major on the undergraduate level of graphic design and with approval of school committee. Fall, Spring, Summer.

ART 4610 - Interactive Design (3)

An introduction to the field of digital visual communication. Integration of new technologies, concepts and methods will be explored. Prerequisite(s): ART 3660. An additional fee is associated with this course. Spring.

ART 4620 - Graphic Design 3A (3)

Studio course where students demonstrate a mastery of graphic design principles and application to produce uniquely personal works that exhibit an understanding of the role and influence of design in contemporary society and industry. Students formulate specific plans and objectives related to accomplishing effective design works based on creative and aesthetic solutions to their research and identified opportunities. Prerequisite(s): ART 3640 and ART 3650. An additional fee is associated with this course. Fall, Spring.

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(s): ART 3635. An additional fee is associated with this course. Fall.

ART 4630 - Graphic Design 3B (3)

Studio course where students demonstrate a mastery of graphic design principles and application to produce uniquely personal works that exhibit an understanding of the role and influence of design in contemporary society and industry. Students formulate specific plans and objectives related to accomplishing effective design works based on creative and aesthetic solutions to their research and identified opportunities. Prerequisite(s): ART 3640 and ART 3650. An additional fee is associated with this course. Fall, Spring

ART 4635 - Advanced Illustration II (3)

A continuation of ART 4625 with an emphasis on the business aspects of free-lance illustration. Prerequisite(s): ART 4625. An additional fee is associated with this course. Spring.

ART 4640 - Advanced Topics Graphic Design (3)

Advanced topics of contemporary interest in Graphic Design. Variable content. Prerequisite(s): ART 3620 and ART 3630. An additional fee is associated with this course.

ART 4850 - Twentieth Century Art and Architecture (3)

Examines the development of Modern art and architecture in the Western world from its origins in the late nineteenth century to mid-twentieth century Postmodernism using critical and creative thinking about social, political, cultural, intellectual and aesthetic contexts embodied in the visual arts. This course is co-listed with ART 5850. Fall.

ART 4860 - Contemporary Art and Design (3)

Examines themes in contemporary art and design and their theoretical frameworks in a global community using critical and creative thinking about social, political, cultural, intellectual and aesthetic contexts embodied in the visual arts and global contemporary culture. This course is co-listed with ART 5860.

ART 4915 - Methods of Teaching Art II: Management and Assessment (3)

The second in a series of three art education methods courses and is designed to ensure that teacher education candidates have mastered specific techniques for teaching art in today's secondary schools
Prerequisite(s): ART 3911, ART 3915; should be taken concurrently with FLDX 4970. An additional fee is associated with this course. Fall.

This is a professional education course.

ART 4920 - Methods of Teaching Art III: Student Teaching Seminar (3)

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.
Prerequisite(s): admission to Teacher Education Program; double majors must take a methods course for each major; should be taken during the Professional Semester. Fall, Spring.

This is a professional education course.

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. Prerequisite(s): admission to the Teacher Education Program; should be taken concurrently with ART 4920 during the Professional Semester (the student teaching semester). Fall, Spring.

This is a professional education course.

AT 1610 - Introduction to Athletic Training (2)

The course is designed to acquaint the first year athletic training major with all aspects of the athletic training profession. Corequisite(s): AT 1611 and AT 1625. An additional fee is associated with this course. Fall.

AT 1611 - Introduction to Athletic Training Lab I (1)

Introduction to clinical athletic training emphasizing basic pre-professional skills sets. Corequisite(s): AT 1610 and AT 1625. An additional fee is associated with this course. Fall.

AT 1625 - CPR/First Aid/AED for Health Care Professionals (1)

Designed to prepare students to administer CPR/AED in a clinical setting. An additional fee is associated with this course.

AT 1630 - Foundations of Athletic Training (2)

Provide the athletic training student with the foundation needed to recognize the cause of injuries, effectively manage injuries, and to prevent injuries from occurring. Prerequisite(s): AT 1610, AT 1611 and AT 1625. Corequisite(s): AT 1631 and AT 1650. An additional fee is associated with this course. Spring.

AT 1631 - Foundations of Athletic Training Lab II (1)

Provide the athletic training student with the clinical foundations to recognize the cause of, prevention of, and management of injuries. Prerequisite(s): AT 1610, AT 1611 and AT 1625. Corequisite(s): AT 1630 and AT 1650. An additional fee is associated with this course. Spring.

AT 1640 - Medical Terminology (1)

Terminology, note writing, and documentation techniques in sports medicine. A treatment cycle will be introduced. Prerequisite(s): AT 1610, AT 1611 and AT 1625. An additional fee is associated with this course. Spring.

AT 1650 - Responding to Emergencies for the Professional Rescuer (2)

Emergency care for accident, injury and illness situations involving the active population. Corequisite(s): AT 1630 and AT 1631. An additional fee is associated with this course.

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. Prerequisite(s): AT 1610, AT 1611, AT 1630, AT 1631, AT 1640, AT 1650, and KIN 1800. Corequisite(s): AT 2611. An additional fee is associated with this course. Fall.

AT 2611 - Orthopedic Assessment: Lower Extremity Lab III (1)

Evaluation of orthopedic injuries and conditions occurring to the lower extremity. Prerequisite(s): AT 1610, AT 1611, AT 1630, AT 1631, AT 1640, AT 1650, and KIN 1800. Corequisite(s): AT 2610. An additional fee is associated with this course. Fall.

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. Prerequisite(s): AT 1610, AT 1611, AT 1630, AT 1631, AT 1640, AT 1650, AT 2610, AT 2611, KIN 1800 and KIN 2850. Corequisite(s): AT 2621 and KIN 2800. An additional fee is associated with this course. Spring.

AT 2621 - Orthopedic Assessment: Upper Extremity Lab IV (1)

Evaluation of orthopedic injuries and conditions occurring to the upper extremity. Prerequisite(s): AT 1610, AT 1611, AT 1630, AT 1631, AT 1640, AT 1650, AT 2610, AT 2611, KIN 1800 and KIN 2850. Corequisite(s): AT 2620. An additional fee is associated with this course. Spring.

AT 2630 - Therapeutic Modalities (3)

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. Prerequisite(s): AT 1610, AT 1611, AT 1625, AT 1630, AT 1631, AT 1640, AT 1650, AT 2610, AT 2611, and AT 2640. Corequisite(s): AT 2631 or consent of faculty advisor. An additional fee is associated with this course.

AT 2631 - Therapeutic Modalities Lab (1)

Students will apply the techniques and clinical skills related to the application of therapeutic modalities. Prerequisite(s): AT 1610, AT 1611, AT 1630, AT 1631, AT 1640, AT 1650, KIN 1800, and KIN 2850. Corequisite(s): AT 2630 or consent of faculty advisor. An additional fee is associated with this course.

AT 2640 - Introduction to Therapeutic Rehabilitation (2)

An introduction to therapeutic exercise, program design and implementation, and progression for exercises and conditions in the active population. Prerequisite(s): AT 1610, AT 1611, AT 1630, AT 1631, AT 1640. Corequisite(s): KIN 1800 or consent of faculty advisor. An additional fee is associated with this course.

AT 3610 - Care and Prevention of Injuries (3)

Accepted athletic training procedure in the care and prevention of athletic injuries. Prerequisite(s): KIN 1800. An additional fee is associated with this course. Fall, Spring.

AT 3620 - Clinical Athletic Training Lab V (2)

The application of athletic training skills and professional practice related to the clinical setting. Prerequisite(s): AT 2610, AT 2611, AT 2620, AT 2621. An additional fee is associated with this course. Fall.

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. Prerequisite(s): AT 1610, AT 1611, AT 1630, AT 1631, AT 1650, AT 2620, AT 2621, AT 2630, AT 2631, KIN 2850 and KIN 2800. An additional fee is associated with this course.

AT 3631 - Therapeutic Rehabilitation Lab (1)

Clinical skills relating to the rehabilitation of athletic injuries. Prerequisite(s): AT 1610, AT 1611, AT 1630, AT 1631, AT 1650, AT 2620, AT 2621, AT 2630, AT 2631, KIN 2850 and KIN 2800. An additional fee is associated with this course.

AT 3640 - Clinical Athletic Training Lab VI (2)

The application of athletic training skills and professional practice related to the clinical setting. Prerequisite(s): AT 2610, AT 2611, AT 2620, AT 2621, AT 2630, BIOL 3401 with a C grade or better, BIOL 3402 with a C grade or better. An additional fee is associated with this course. Spring.

AT 3650 - Sport and Exercise Pharmacology (2)

Discuss medications and their impact upon the active population. Issues in ethical concerns and legal implications will be addressed. Prerequisite(s): junior standing. An additional fee is associated with this course. Fall.

AT 4610 - Clinical Athletic Training Lab VII (2)

The application of athletic training skills and professional practice related to the clinical setting. Prerequisite(s): AT 2610, AT 2611, AT 2620, AT 2621, AT 2630, and AT 2631. An additional fee is associated with this course. Fall.

AT 4620 - Clinical Athletic Training Lab VIII (2)

The application of athletic training skills and professional practice related to the clinical setting. Prerequisite(s): AT 2610, AT 2611, AT 2620, AT 2621, AT 2630, and AT 2631. An additional fee is associated with this course. Spring.

AT 4630 - Organization and Administration of Athletic Training (3)

Legal issues, budget and inventory management, facility designs and maintenance, daily supervision, scheduling, and administration of the athletic training facilities will be addressed. Prerequisite(s): AT 1610, AT 1611, AT 1630, AT 1631, AT 1650, AT 2620, AT 2621, AT 2630, AT 2631, AT 3620, KIN 2850 and KIN 2800. An additional fee is associated with this course. Spring.

AT 4640 - Senior Seminar in Athletic Training (2)

Culminating experiences for senior level athletic training students focusing on current topics in the Athletic Training Profession and career development issues. Prerequisite(s): senior standing. An additional fee is associated with this course.

AT 4650 - Pathophysiology Lab for Athletic Training (1)

Clinical practice in patient care using instrumentation and hands-on application in performing differential assessments of common disease states and medical conditions for the Athletic Training Student. Prerequisite(s): KIN 2850 or BIOL 3402. Corequisite(s): HLTH 4370. An additional fee is associated with this class.

ATM 1010 - Contemporary Power Systems (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. An additional fee is associated with this course. Fall, Summer.

ATM 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(s): ATM 1010 or background experience. An additional fee is associated with this course. An additional fee is associated with this course. Fall.

ATM 2124 - 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(s): ATM 1010. An additional fee is associated with this course. Spring.

ATM 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(s): ATM 1010 and ET 1010 or concurrently. An additional fee is associated with this course. Fall.

ATM 2132 - Engine Performance I (4: 2 lecture, 2 lab)

Fuel and related emission control systems. Basic carburation, fuel injection, and emission control devices. Prerequisite(s): ATM 2130. An additional fee is associated with this course. Spring.

ATM 2140 - Manual Drivelines (3: 2 lecture, 1 lab)

In-depth classroom and laboratory experiences in the diagnosis, service and repair of manual transmissions and drivelines. Prerequisite(s): ATM 1010 or AGRI 3200. An additional fee is associated with this course. Fall.

ATM 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. An additional fee is associated with this course. Spring.

ATM 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. An additional fee is associated with this course. Fall.

ATM 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(s): ATM 2110 or AGRI 3200. An additional fee is associated with this course. Spring.

ATM 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(s): ATM 1010 or background experience. An additional fee is associated with this course. Fall.

ATM 3130 - Engine Performance II (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(s): ATM 2130 and ATM 2132. An additional fee is associated with this course. Fall.

ATM 3134 - Advanced Powerplant Systems (3: 2 lecture, 1 lab)

Designed to familiarize students with current and near-future automotive propulsion system technologies. It includes the study of advanced engine performance and diagnostic equipment with particular emphasis given to alternate fuel power-plant systems, electric vehicles, hybrid electric vehicles, fuel cells and other relevant topics pertaining to the advanced vehicle propulsion systems. Prerequisite(s): ATM 2132. An additional fee is associated with this course. Fall.

ATM 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. An additional fee is associated with this course. Fall, in odd numbered years only.

ATM 4032 - Hydraulics and Pneumatics (3: 2 lecture, 1 lab)

Fluid power principles with practical application of hydraulics, pneumatics, and fluidics. This course is co-listed with ATM 5032. Prerequisite(s): MATH 1111. An additional fee is associated with this course. Fall, Spring, Summer.

ATM 4038 - Advanced Hydraulics (3)

Hydraulic system analysis and troubleshooting along with servo and electronic control theory and application. This course is co-listed with ATM 5038. Prerequisite(s): ATM 4032. An additional fee is associated with this course. Fall, in even numbered years only

ATM 4110 - Automatic Transmissions (3: 2 lecture, 1 lab)

In-depth classroom and laboratory experiences in the diagnosis, service and repair of automatic transmissions and drivelines. Prerequisite(s): ATM 4032 or concurrently. An additional fee is associated with this course. Spring.

ATM 4112 - ATM Capstone Experience (3)

Integration of communication, technology, sociology, economics, and ecology with automotive manufacturing and engineering, management, and service operations. Emphasis on reciprocal effects of business and corporate practices, ethics, operations and consumer protections. Prerequisite(s): ATM 4130 or concurrently. An additional fee is associated with this course. Spring.

ATM 4130 - ATM Comprehensive Vehicle Diagnostics (4: 1 lecture, 3 lab)

Designed as a capstone technical course for learners in the ATM major. The course is primarily lab-based, with most of the course work following diagnostic scenarios in the laboratory. Lab tasks will test the learner on their ability to diagnose vehicle failures on a complete vehicle scale that include all vehicle systems and how they function relative to each other, and will expand upon these areas via diagnostic and industry standard technical material and testing methods. Usage of the proper diagnostic processes, lab scopes, DVOM's, scan tools, and other diagnostic tools is required for success in this course. Prerequisite(s): ATM 3130. An additional fee is associated with this course. Spring.

ATM 4134 - Advanced Vehicle Systems (2)

A study of advanced peripheral electronic systems in automobiles. Emphasis is placed on systems as they pertain to hybrid and electric vehicles. Prerequisite(s): ATM 3134. An additional fee is associated with this course. Spring.

ATM 4150 - Diesel Technology (4: 3 lecture, 1 lab)

Survey of diesel engine theory, diagnosis, service and maintenance with an emphasis in diesel fuel and emission systems along with engine construction and operation. Alternative fuels for compression ignition engines are also covered. Prerequisite(s): ATM 2110 or AGRI 3200 and ATM 4032 or concurrently. An additional fee is associated with this course. Spring.

ATM 4410 - Intermodal Transportation (3)

Transportation (air, 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, environmental, social, and political factors are also considered. This course is co-listed with ATM 5410. An additional fee is associated with this course. Fall.

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. Fall, Spring.

AVIA 1211 - UAS Regulations and Applications (1)

Addresses applications and regulations pertaining to small Unmanned Aerial Systems (sUAS). At the end of the course, the student should be prepared to test for the Remote Pilot - sUAS Airman Certificate, as well as demonstrate understanding of sUAS applications. Students must show proof of U.S. Citizenship, U.S. permanent residency, be in possession of a current FAA sUAS airman certificate, have TSA approval for sUAS, or meet FAA and TSA requirements.

AVIA 1212 - sUAS Operations (1)

Addresses basic sUAS flight operations, which includes basic and advanced maneuvers, the use of GPS, and operating the mounted camera while flying. Students must show proof of U.S. Citizenship, U.S. permanent residency, be in possession of a current FAA sUAS airman certificate, have TSA approval for sUAS, or meet FAA and TSA requirements. Prerequisite(s): must possess a current sUAS Airman Certificate.

AVIA 1213 - sUAS Maintenance and Components (1)

Addresses the maintenance and repair of sUAS. Topics covered in this class includes field repairs, regular maintenance, and selecting properly rated components for various applications. Students must show proof of U.S. Citizenship, U.S. permanent residency, be in possession of a current FAA sUAS airman certificate, have TSA approval for sUAS, or meet FAA and TSA requirements.

AVIA 1215 - General A&P Applications (3)

General A&P related course and laboratory material necessary to transition from military to civilian applications. Prerequisite(s): Release from the Federal Aviation Administration (FAA sign-off) for General, Airframe, and Powerplant or permission of instructor.

AVIA 1216 - Airframe Applications (3)

The course provides a thorough study of Airframe related course material necessary to transition from military to civilian applications. Prerequisite(s): FAA authorization for General, Airframe, and Powerplant, or permission from the instructor.

AVIA 1217 - Powerplant Applications (3)

The course provides a thorough study of Powerplant related course material necessary to transition from military to civilian applications. Prerequisite(s): FAA authorization for General, Airframe, and Powerplant, or permission from the instructor.

AVIA 1218 - FAA Maintenance Regulations (3)

The course provides a thorough study of FAA Maintenance Regulations and Records keeping necessary to transition from military to civilian applications. Prerequisite(s): FAA authorization for General, Airframe, and Powerplant, or permission from the instructor.

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. Fall, Spring.

AVIA 1330 - Principles of Helicopter Flight (2)

Provides basic helicopter aerodynamics to helicopter Private Pilot students including aircraft components, flight characteristics, and flight principles. Prerequisite(s): FLYA 1321 or Private Pilot Airplane certificate or equivalent.

AVIA 1903 - Aviation History (2)

Major events, people, and changing technologies in the development of the present day air transportation system.

AVIA 2040 - 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. Prerequisite(s): Sophomore standing. Fall, Spring, Summer.

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. Fall, Spring.

AVIA 2325 - Instrument Rating Ground School (4)

Instrument ground school subjects in support of flight training to prepare for FAA examination for instrument rating. Prerequisite(s): FLYA 1321. Fall, Spring.

AVIA 2340 - 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(s): AVIA 2310 or concurrently. Fall, Spring.

AVIA 2345 - Glass Cockpits - G1000 (2)

Designed to introduce the concept of glass cockpits with particular reference to the features and operation of the G1000 system. Prerequisite(s): AVIA 2325 An additional fee is associated with this course.

AVIA 2350 - 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(s): AVIA 1310.

AVIA 3010 - 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. Fall, Spring.

AVIA 3022 - Aviation Internship (1-3)

Provides experience for students in participating organizations. Students rotate assignments, create written reports of their activities.

AVIA 3030 - 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 3045 - Airport Management (3)

Airport operations and management principles and applications. Personnel, security, budgeting, contracts, maintenance and public relations. Prerequisite(s): AVIA 2040

AVIA 3046 - Airport Certification (3)

Provide students with a working knowledge of airport certification procedures (including marking, lighting, guidance signs, aircraft rescue and firefighting, fuel handling safety, airspace obstruction analysis, winter operations, etc.), and airport inspection procedures to be able to complete an airport inspection in accordance with federal regulations. Prerequisite(s): AVIA 3045

AVIA 3080 - Air Traffic Control (3)

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 3255 - Metal Airframe Processing (3)

Theory and practice in the construction and repair of metal airframes.

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(s): FLYA 2314. Fall, Spring.

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(s): FLYA 3317 or FLYA 3417. Corequisite(s): FLYA 3360. An additional fee is associated with this course.

AVIA 3370 - Transport Aircraft Systems (2)

Comparison of systems on major types of transport category aircraft and inflight management of those systems thru lecture, computer based training and simulation. Lab work will utilize cockpit procedures trainer and advance flight training device. Prerequisite(s): AVIA 2325, AVIA 2340; Admission to Professional Pilot degree program and junior standing. Must show proof of US Citizenship or TSA Clearance for Flight Training. Corequisite(s): AVIA 3372. An additional fee is associated with this course. Fall, Spring.

AVIA 3372 - Advanced Transport Aircraft Systems (2)

Advanced study of transport aircraft systems and familiarization with use of Flight Management Systems. Use of airline dispatch release documents for the programming of the training device from preflight to shutdown. Lab work will utilize cockpit procedures trainer and advance flight training device. Prerequisite(s): AVIA 2340, AVIA 2325; Admission to Professional Pilot degree program; junior standing. Must show proof of US Citizenship or TSA Clearance for Flight Training. Corequisite(s): AVIA 3370. An additional fee is associated with this course.

AVIA 3610 - Human Factors (3)

A survey of aeromedical human factors including causes, symptoms, prevention and treatment of flight environment disorders. Altitude effects, spatial disorientation, body heat imbalance, visual anomalies and psychological factors are included as they relate to pilot performance and survival effectiveness. An additional fee is associated with this course.

AVIA 3620 - Principles of Aviation Accident Causation (3)

This class offers a survey of air carrier and general aviation incidents and accidents along with causation models and how barriers prevent accidents. The class will include a video colloquia of aviation accident and training videos to supplement textbook reading.

AVIA 3710 - Professional Ethics in Aviation (2)

The course introduces students to ethical issues in aviation such as theoretical frameworks, concepts of business ethics, employee responsibility, accessibility, diversity in aviation, ground issues regarding airports, air traffic control and security, decision-making, as well as health and the environment.

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.* An additional fee is associated with some sections of this course.

AVIA 4021 - Weight and Balance Loadsheet Development (1)

Designed to introduce the concept of weight and balance load and horizontal stabilizer trim sheets and methodology to design and develop such operational forms. Prerequisite(s): AVIA 3010.

AVIA 4042 - Aviation Maintenance Management (3)

Introduces fundamental duties/responsibilities of a typical maintenance manager for FAR Part 91, 135 charter, 145 repair station, corporate, and airline operations. Fall, Spring.

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 4090 - Aviation Law (3)

Legal foundations and the federal and state regulatory functions which influence aviation and those who work in the industry. Prerequisite(s): Junior standing.

AVIA 4091 - Regulatory Policy Seminar (4: 2 lecture, 2 lab)

This seminar course surveys the evolution of federal civil aviation regulations in the United States including FAA requirements, regulations, and certifications including exposure to the aircraft design, manufacturing, maintenance, pilot, aircraft owner, operations, and airport regulatory environment. Fall.

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.

AVIA 4096 - International Policy Seminar (3: 2 lecture, 1 lab)

This seminar course surveys the evolution of the international regulatory environment including international requirements, regulations, and certifications including exposure to the aircraft design, manufacturing, maintenance, pilot, aircraft owner, operations, and airport regulatory environment. Prerequisite(s): AVIA 4095 or concurrently. Spring.

AVIA 4100 - Airport Leadership A (2)

The purpose of this course is to prepare students with foundational knowledge necessary for a job or career in airport management. The course will prepare students to pass the certified manager (CM) exam administered by the American Association of Airport Executives (AAAE) and provide students with the opportunity to network with airport industry experts. An additional fee is associated with this course.

AVIA 4101 - Airport Leadership B (2)

The purpose of this course is to prepare students with foundational knowledge necessary for a job or career in airport management. The course will prepare students to pass the certified manager (CM) exam administered by the American Association of Airport Executives (AAAE) and provide students with the

opportunity to network with airport industry experts. At the end of this course the student will complete the AAAE CM Exam. An additional fee is associated with this course.

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(s): AVIA 3372. An additional fee is associated with this course. Fall, Spring.

AVIA 4380 - Flight Operations Management (3)

Airline flight operations management principles and applications. Fall, Spring.

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. Prerequisite(s): Junior standing. Fall, Spring, Summer.

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. Prerequisite(s): Junior standing.

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. Prerequisite(s): Junior standing. Fall, Spring, Summer.

AVIA 4810 - Space Exploration (3)

Examines present and future methods of space exploration. Topics include the technology & vehicles, dangers, benefits, costs, and practical and political importance of space exploration. Discussion topics include space stations, moon colonies, manned missions from Mercury through Apollo, and current international space missions. Prerequisite(s): Junior standing. Summer. Taught only as an online course.

AVIA 4999 - Integrative Studies Capstone (3)

Challenges the student to perform as an effective member of an air operations management team using critical thinking, decision making and ethics. Prerequisite(s): junior standing.

BIOL 1000 - The Discipline of Biology (1)

An introduction to biology as an academic endeavor as well as the opportunities that exist for undergraduate students at UCM and within the School of Natural Sciences. Prerequisite(s): declaration of major in biology or related biological discipline.

BIOL 1003 - Introduction to the Sciences: Ecology GE (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.

UCM General Education Competency: This course fulfills Knowledge Competency #7 and reinforces Foundational Skills Competency #3 in the science non-laboratory area of the UCM General Education Program.

This course is equivalent to MOTR BIOL 001 Essentials in Biology in the Natural Sciences Knowledge Area.

BIOL 1004 - Introduction to the Sciences: Ecology GE (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.

UCM General Education Competency: This course fulfills Knowledge Competency #7 and reinforces Foundational Skills Competency #3 in the Science with a Laboratory area of the UCM General Education Program.

This course is equivalent to MOTR BIOL 001L Essentials in Biology with Lab in the Natural Sciences Knowledge Area.

BIOL 1005 - Introduction to Environmental Science GE (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.

UCM General Education Competency: This course fulfills Knowledge Competency #7 and reinforces Foundational Skills Competency #3 in the science non-laboratory area of the UCM General Education Program.

This course is equivalent to MOTR BIOL 001 Essentials in Biology in the Natural Sciences Knowledge Area.

BIOL 1006 - Environmental Science/Ecology Lab GE (1:1 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. Must be taken concurrently with BIOL 1003 or BIOL 1005.

UCM General Education Competency: This course fulfills Knowledge Competency #7 and reinforces Foundational Skills Competency #3 in the Science with a Laboratory area of the UCM General Education Program.

This course is equivalent to MOTR BIOL 001L Essentials in Biology with Lab in the Natural Sciences Knowledge Area.

BIOL 1007 - Plants and Society GE (4: 3 lecture, 1 lab)

Introduction to science with an emphasis on the economic uses of plants that are important to society. The course introduces the student to basic vocabulary and principles of the study of economically important plants.

UCM General Education Competency: This course fulfills Knowledge Competency #7 and reinforces Foundational Skills Competency #3 in the Science with a Laboratory area of the UCM General Education Program.

This course is equivalent to MOTR BIOL 001L Essentials in Biology with Lab in the Natural Sciences Knowledge Area.

BIOL 1110 - Principles of Biology (3)

Examination of basic biological principles including the scientific method, biological molecules, cellular function and structure, photosynthesis, respiration, metabolism, cell mitosis, genetics, evolution, diversity, and ecology.

This course is equivalent to MOTR BIOL 100 Biology in the Natural Sciences Knowledge Area.

BIOL 1111 - Plant Biology (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.

This course is equivalent to MOTR BIOL 100L Biology with Lab in the Natural Sciences Knowledge Area.

BIOL 1112 - Animal Biology (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. An additional fee is associated with this course.

This course is equivalent to MOTR BIOL 100L Biology with Lab in the Natural Sciences Knowledge Area.

BIOL 1510 - Investigative Biology (4: 3 lecture, 1 lab)

Interdisciplinary introduction to biological science using principles of science, chemistry and mathematics. Emphasis on biological molecules, cellular structures and functions, and genetics and molecular biology. Laboratories emphasize the scientific method, data collection and analyses, and quantitative reasoning. Prerequisite(s): ACST 1300 or MATH 1111 or MATH 1131 or MATH 1150 or MATH 1151 or CHEM 1131. Spring/Summer/Fall.

BIOL 2010 - Human Biology GE (3)

An overview of human biology, emphasizing physiology, development, health, interpersonal and environmental interactions.

UCM General Education Competency: This course fulfills Knowledge Competency #7 and reinforces

Foundational Skills Competency #3 in the Science non-laboratory area of the UCM General Education Program.

This course is equivalent to MOTR LIFS 001 Essentials in Human Biology and MOTR LIFS 100 Human Biology in the Natural Sciences Knowledge Area.

BIOL 2012 - Exploratory Projects in Biology (1-4)

Students as a group learn specialized, introductory biology content not available through normal course offerings. *May be repeated for a maximum of 8 semester hours.* Prerequisite(s): Consent of school chair.

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(s): BIOL 1110 and BIOL 1111 or BIOL 1112.

This is a sustainability course.

BIOL 2510 - Basic Genetics GE (3)

Survey of heredity with emphasis on classical and modern genetics in context of human diversity, health and impact on society and the environment. Prerequisite(s): ENGL 1020 or ENGL 1080.

UCM General Education Competency: This course fulfills Knowledge Competency #7 and reinforces Foundational Skills Competency #4 in the METS (Mathematics, Engineering, Technology, and Science) area of the UCM General Education Program.

BIOL 2512 - Cell Biology (3)

A study of cellular structure and function to include macromolecules, DNA replication, transcription, and translation; cellular organelles, membranes, cytoskeleton, energetics, cell cycle, and cell signaling. Prerequisite(s): (BIOL 1110 or BIOL 1111 or BIOL 1112 or BIOL 1510) and CHEM 1131.

BIOL 3000 - Cooperative Clinical (0)

A student's first semester of study at the clinical affiliate program.

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. Prerequisite(s): BIOL 1110 and BIOL 1112. 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. Prerequisite(s): BIOL 1110 and BIOL 1112 or BIOL 3402; and CHEM 1104 or CHEM 1131. An additional fee is associated with this course. Fall.

BIOL 3215 - Medical Terminology (2 or 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.* Prerequisite(s): One biology course.

BIOL 3401 - Human Anatomy (3: 1 lecture, 2 lab)

The systematic study of human anatomy, including the integumentary, skeletal, muscular, nervous, cardiovascular, lymphatic and immune, respiratory, urinary, digestive, endocrine, and reproductive systems. Prerequisite(s): CHEM 1103 or CHEM 1104 or CHEM 1131. An additional fee is associated with this course.

BIOL 3402 - Human Physiology (5: 4 lecture, 1 lab)

The study of physiological processes of humans, including membranes, muscle, nervous, cardiovascular, respiratory, renal, gastrointestinal, endocrine and reproductive physiology. Prerequisite(s): BIOL 3401. An additional fee is associated with this course.

BIOL 3410 - Forensic Science (3)

Theoretical and hands-on applications of forensic science including types of deaths, taphonomy, toxicology, body fluid and blood analysis, ballistics and trace evidence determinations. Prerequisite(s): BIOL 2010 or BIOL 3401, 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. Prerequisite(s): BIOL 3401 or BIOL 3431. Spring.

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. Prerequisite(s): BIOL 3211 or BIOL 3402 or BIOL 3431. An additional fee is associated with this course. Fall.

BIOL 3431 - Animal Physiology (4: 2 lecture, 2 lab)

Animal functions in terms of their needs for oxygen, food, energy, temperature, water, movement, information, and integration. Prerequisite(s): BIOL 1110 and (BIOL 1112 or AGRI 3410); and BIOL 2512; and CHEM 1131. An additional fee is associated with this course.

This is a sustainability course.

BIOL 3500 - Cooperative Clinical II (0)

A student's second semester of study at the clinical affiliate program.

BIOL 3511 - 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. Prerequisite(s):

BIOL 2510 or BIOL 1110 or BIOL 1510 or BIOL 3402; and CHEM 1131; and MATH 1111 or MATH 1150 or MATH 1151 or MATH 1620 or ACST 1300. An additional fee is associated with this course. Fall.

BIOL 3610 - Basic Microbiology (3)

A lecture-only introduction to the basic microbial concepts including various microbial classes, genetics, habitats, cell structure, metabolism, modes of transmission, and control methods. Not available for Biology majors or minors. Prerequisite(s): BIOL 1110 or BIOL 3402; and CHEM 1104 or CHEM 1131.

BIOL 3611 - Microbiology (4: 3 lecture, 1 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. Prerequisite(s): BIOL 1112 or BIOL 3402 with a grade of C or better; and CHEM 1104 or CHEM 1131 with a grade of C or better. An additional fee is associated with this course.

BIOL 3709 - Dendrology (4: 3 lecture, 1 lab)

The classification, ecology, economics, identification, morphology, and distribution of woody plants. Prerequisite(s): BIOL 1111.

BIOL 3711 - Plant Identification (4: 3 lecture, 1 lab)

A basic course in plant identification, using classification, nomenclature, collection and preservation techniques. Involves much field and lab work. Prerequisite(s): BIOL 1111 or AGRI 1600.

BIOL 3712 - Field Techniques in Biology (4: 1 lecture, 3 lab)

Provides an introduction to the flora, fauna, ecoregions, and natural communities of Missouri. Focuses on basic and widely used field techniques in ecology, fisheries, wildlife management, forestry, and botany. Involves mostly field work with a minor lecture component. Prerequisite(s): BIOL 1110, BIOL 1111, BIOL 1112 and BIOL 2020. An additional fee is associated with this course.

BIOL 3721 - Wildlife Management (3)

Wildlife resources of North America and their importance in our economic and cultural life; biological methods of preservation, restoration and management. Prerequisite(s): BIOL 1110 and BIOL 2020.

This is a sustainability course.

BIOL 4001 - Ecology Senior Seminar (1)

Capstone course for biology majors where assessments are completed including a nationally administered exit exam, ACAT in Biology. Strategies for building careers in ecological, wildlife and conservation biology are discussed. Prerequisite(s): senior standing.

BIOL 4002 - Life Science Senior Seminar (1)

Capstone course for biology majors where assessments are completed including a nationally administered exit exam, MFT in Biology. Strategies for building careers in molecular, cellular and physiological/biomedical biology are discussed. Prerequisite(s): senior standing.

BIOL 4003 - Radiologic Technology Senior Seminar (1)

Capstone course for radiologic technology majors where assessments are completed including a nationally administered exit exam, ACAT in Biology. Strategies for building careers in radiologic technology and hospital settings are discussed. Prerequisite(s): enrollment in the last semester before clinicals.

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(s): consent of instructor.

BIOL 4012 - Special Projects in Biology (0-8)

This course is co-listed with BIOL 5012. *May be repeated for a maximum of 9 semester hours. With permission of the school chair, majors in medical technology may repeat for a maximum of 30 semester hours.* Prerequisite(s): consent of instructor.

BIOL 4013 - Introduction to Experimental Design and Analysis (3)

Covers the conceptualization, implementation, analysis, and communication of research in biology. This course is co-listed with BIOL 5113. Prerequisite(s): BIOL 1110; MATH 1111 or MATH 1150.

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. This course is co-listed with BIOL 5014. Prerequisite(s): must be a major in the Biology with at least 60 hours of credit.

BIOL 4015 - Clinical Immunohematology (4)

Clinical Immunohematology, a component of the Medical Technology Clinical Internship as part of the last year of the degree. Prerequisite(s): Acceptance into an affiliated Clinical Laboratory Science/Medical Technology Program. Summer.

BIOL 4016 - Clinical Urinalysis (2)

Clinical Urinalysis, a component of the Medical Technology Clinical Internship as part of the last year of the degree. Prerequisite(s): Acceptance into an affiliated Clinical Laboratory Science/Medical Technology Program. Summer.

BIOL 4017 - Clinical Microbiology (7)

Clinical Microbiology, a component of the Medical Technology Clinical Internship as part of the last year of the degree. Prerequisite(s): Acceptance into an affiliated Clinical Laboratory Science/Medical Technology Program. Fall.

BIOL 4018 - Clinical Immunology (5)

Clinical Immunology, a component of the Medical Technology Clinical Internship as part of the last year of the degree. Prerequisite(s): Acceptance into an affiliated Clinical Laboratory Science/Medical Technology Program. Fall.

BIOL 4019 - Clinical Biochemistry (7)

Clinical Biochemistry, a component of the Medical Technology Clinical Internship as part of the last year of the degree. Spring.

BIOL 4020 - Clinical Hematology (4)

Clinical Hematology, a component of the Medical Technology Clinical Internship as part of the last year of the degree. Prerequisite(s): Acceptance into an affiliated Clinical Laboratory Science/Medical Technology Program. Spring.

BIOL 4021 - Clinical Special Topics (1)

Clinical Special Topics, a component of the Medical Technology Clinical Internship as part of the last year of the degree. Prerequisite(s): Acceptance into an affiliated Clinical Laboratory Science/Medical Technology Program. Spring.

BIOL 4022 - Clinical Education / Practice IV (4-6)

A component of the Radiologic Technology Internship as part of the last year of the degree. Prerequisite(s): Acceptance into a JCERT accredited affiliated program.

BIOL 4023 - Radiographic Anatomy and Physiology (0-8)

A component of the Radiologic Technology Internship as part of the last year of the degree. Prerequisite(s): Acceptance into a JCERT accredited affiliated program.

BIOL 4024 - Radiographic Positioning and Procedure (2-4)

A component of the Radiologic Technology Internship as part of the last year of the degree. Prerequisite(s): Acceptance into a JCERT accredited affiliated program.

BIOL 4025 - Medical Imaging (2-10)

Includes all aspects of digital imaging acquisition and display. Included are topics regarding understanding of the components, principles and operation of digital imaging systems. Factors that impact image acquisition, display, archiving and retrieval are discussed. Guidelines for selecting exposure factors and evaluating images within the digital system assist students to bridge between film based and digital imaging systems.

BIOL 4026 - Radiation Biology and Protection (2-3)

Continues covering the fundamentals of basic radiation biology as well as basic radiation safety theory. Biology topics will include the fundamental principles of radiation biology, molecular and cellular radiobiology

and the early and late effects of radiation. Radiation protection topics will include Health Physics practices, considerations for design of equipment and facilities, as well as procedures for ensuring the safety of radiation workers, patients, and members of the public.

BIOL 4027 - Pathology I (2-3)

Examination of pathologic conditions related to various radiologic procedures. Introduction to pathology is the study of significant diseases, which present radiologic findings. Studies will include the diagnosis, etiology, symptoms, treatment and radiographic correlations of pathologic conditions with relationship to cell pathology, inflammation, bone and joint disease, gastrointestinal system, respiratory, urinary system, male and female reproduction system. How to select proper exposure factors for the pathology that is in existence and how the pathology will appear on radiographic images.

BIOL 4028 - Clinical Education / Practice V (2-6)

A clinical experience with limited supervision for continued emphasis in application and evaluation of procedures involving all aspects of radiology. The student will continue to expound on Clinical Education 301, 302, 303 and 404 exams.

BIOL 4029 - A&P Cross Sectional Anatomy (0-3)

Study of cross sectional anatomy of the head, chest, abdomen and extremities with correlation to Computed Tomography (CT) and Magnetic Resonance Imaging (MRI).

BIOL 4030 - Pathology II (0-3)

Examination of pathologic conditions related to various radiologic procedures. Introduction to pathology is the study of significant diseases, which present radiologic findings. Studies will include the diagnosis, etiology, symptoms, treatment and radiographic correlations of central nervous system, cardiovascular, endocrine system, fluid and hemodynamic disorders and liver, pancreas, biliary systems, neoplasia, breast, skin and muscles. How to select proper exposure factors for the pathology that is in existence and how the pathology will appear on radiographic images.

BIOL 4031 - Quality Assurance / Equipment Operations (2-3)

Quality control and quality assurance in the radiology department. Test tools and equipment utilized to ensure appropriate images. State and federal guidelines which are applicable to film screen radiography as well as digital radiography equipment. Laboratory experiments will be conducted to reinforce didactic lessons.

BIOL 4032 - Imaging Modalities (2-3)

To offer the students information about numerous imaging modalities available in the field of radiologic technology.

BIOL 4033 - Radiography Curriculum Review / Seminar (2-3)

The student will participate in testing modules provided by The College of St. Catherine's Developmental Testing Program for Radiography located in Minneapolis MN. The tests are comparative to registry examination questions. The results of the tests submitted on behalf of the SLH class of 2009 will be compared to student scores across the United States participating in the same type of testing program.

BIOL 4034 - Correctec (2-3)

Correctec has developed numerous computer programs to help radiography students learn the content required to be successful technologists and to pass the nationally required examination, the American Registry of Radiologic Technologists (ARRT). Correctec incorporated the review materials into an online review course. The online review course individualizes the learning experience by giving immediate feedback and review of the subject being tested. Additionally, the course is frequently updated to reflect the latest changes in terminology and content in the subject area. Students will submit units to instructor at specific intervals throughout the semester.

BIOL 4035 - Clinical Education / Practice VI (2-6)

Course emphasizes the development of expertise in all radiographic procedures with indirect supervision in proven competency areas and direct supervision in other related radiology areas. The student will continue to expound on Clinical Education 301, 302, 303, 404 and 405 exams.

BIOL 4100 - Cooperative Clinical III (0)

A student's third semester of study at the clinical affiliate program.

BIOL 4102 - Evolution (3)

Lecture and discussion of current and historical evolutionary theory. The process of scientific investigation will be contrasted with non-scientific methods. This course is co-listed with BIOL 5102. Prerequisite(s): BIOL 1110 or GEOS 1004.

BIOL 4210 - Ichthyology (4: 3 lecture, 1 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. This course is co-listed with BIOL 5210. Prerequisite(s): BIOL 1110 and BIOL 1112. An additional fee is associated with this course.

BIOL 4221 - Mammalogy (4: 2 lecture, 2 lab)

A thorough examination of the Class Mammalia, including anatomy, systematics, evolution, and ecology of these groups with special attention to identification of local forms. Students will be expected to develop a detailed knowledge of the literature on mammalogy. This course is co-listed with BIOL 5221. Prerequisite(s): BIOL 1110, BIOL 1112, and BIOL 2020. An additional fee is associated with this course. Fall.

BIOL 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(s): 22 semester hours of biology.

BIOL 4223 - Ornithology (4: 2 lecture, 2 lab)

An examination of the ecology and biology of birds with special emphasis on the field study of locally occurring species. This course is co-listed with BIOL 5223. Prerequisite(s): BIOL 1110 and BIOL 1112. An additional fee is associated with this course.

BIOL 4232 - Herpetology (4: 2 lecture, 2 lab)

A thorough examination of the classes Amphibia and Reptilia, including anatomy, systematics, evolution and ecology of these groups with special attention to identification of local forms. This course is co-listed with BIOL 5232. Prerequisite(s): BIOL 1110 and BIOL 1112 and BIOL 2020. An additional fee is assessed for this course.

BIOL 4311 - Parasitology (4: 2 lecture, 2 lab)

Animal parasites, with emphasis on identification, morphology, biology, life histories, and host-parasite relationships. This course is co-listed with BIOL 5311. Prerequisite(s): BIOL 1112 with a grade of C or better and 30 semester hours. An additional fee is associated with this course. Fall.

BIOL 4312 - Entomology (4: 2 lecture, 2 lab)

An introduction to the systematics, morphology, physiology, evolution, and ecology of insects. This course is co-listed with BIOL 5312. Prerequisite(s): BIOL 1110 and either BIOL 1111 or BIOL 1112. An additional fee is associated with this course. Fall.

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. This course is co-listed with BIOL 5400. Prerequisite(s): 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(s): BIOL 3431. An additional fee is associated with this course.

BIOL 4411 - Plant Physiology (4: 2 lecture, 2 lab)

Introduces students to the life processes occurring in plants, the factors affecting these processes, their measurement, and the significance of these processes to the growth of the plant. This course is co-listed with BIOL 5411. Prerequisite(s): BIOL 1110; and BIOL 1111 or AGRI 1600; and CHEM 1104 or CHEM 1131. An additional fee is associated with this course.

BIOL 4412 - Wildlife Diseases (4: 3 lecture, 1 lab)

Introduction to causes and mechanisms of wildlife diseases including the pathobiology of the disease, zoonosis, and the wide range of pathogens and diseases impacting the different classes of animals. Discussion on the significance of disease on populations, domestic/wildlife/human interface, and the implications on conservation and management. This course offers hands on training in microbiology fundamentals, necropsy, disease detection, field sampling and diagnostic testing. This course is co-listed with BIOL 5412. Prerequisite(s): BIOL 1110 and BIOL 1112.

BIOL 4500 - Cooperative Clinical IV (0)

A student's fourth semester of study at the clinical affiliate program.

BIOL 4511 - Cytogenetics (4: 3 lecture, 1 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. Prerequisite(s): BIOL 2512; and CHEM 1104 or CHEM 1131. An additional fee is associated with this course.

BIOL 4514 - Molecular Biology (3)

Emphasizes how biological molecules interact to express cellular phenotypes. Transcriptional and translational controls of gene expression and the latest biotechnological advances are discussed. This course is co-listed with BIOL 5514. Prerequisite(s): BIOL 3511 and CHEM 1132. Spring.

BIOL 4515 - Molecular Technology (3: 2 lecture, 1 lab)

Emphasizes the proper use of laboratory equipment, molecular techniques, experimental design, and data analysis. Questions and experiments encountered in molecular biology are addressed. This course is co-listed with BIOL 5515. Prerequisite(s): BIOL 3511 and CHEM 1132. 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. This course is co-listed with BIOL 5516. Prerequisite(s): BIOL 3511 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. This course is co-listed with BIOL 5517. Prerequisite(s): BIOL 3213 or BIOL 3414 or BIOL 3611 or BIOL 4311. An additional fee is assessed for this course.

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. This course is co-listed with BIOL 5709. Prerequisite(s): BIOL 1111; BIOL 2020; BIOL 3709 or BIOL 3711.

BIOL 4710 - Limnology (4: 2 lecture, 2 lab)

Ecology of aquatic populations, communities, and ecosystems will be emphasized. Both lentic and lotic habitats will be examined. Field trips at additional expense to the students are part of this course. Prerequisite(s): BIOL 2020.

BIOL 4711 - Animal Ecology (4: 3 lecture, 1 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. This course is co-listed with BIOL 5711. Prerequisite(s): BIOL 1110 and BIOL 1112 and BIOL 2020. An additional fee is associated with this course.

BIOL 4722 - Conservation Biology (3)

This is a synthetic course applying the multidisciplinary approaches of ecology, biogeography, evolution, genetics and economics to the global biodiversity crisis. This course is co-listed with BIOL 5722.

Prerequisite(s): BIOL 1110, and BIOL 2020.

BIOL 4919 - Wildlife Policy and Law (3)

Introduction to the principles of wildlife policy and law in North America. This course will survey the history of wildlife law in the U.S. and examine the evolution of wildlife law by examining specific legislation. It will also familiarize students with ecosystem and wildlife issues that shape wildlife law, as well as public attitudes toward the value of ecosystems and wildlife. This course is co-listed with BIOL 5919. Prerequisite(s): BIOL 2020 or (CJ 1000 and BIOL 1003) or (CJ 1000 and BIOL 1005). Sometimes offered online.

BIOL 4950 - Laboratory Intern (1)

Under direct supervision, students will assist in the preparation, supervision, and assessment (with the exception of grading) of laboratory activities in the School of Natural Sciences. *May be repeated for a maximum of 2 semester hours.*

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 as topics vary.* Prerequisite(s): consent of instructor.

BADM 1400 - Business Orientation (1)

Business Orientation is designed to facilitate students' orientation to the School of Business Administration (SoBA) and the University of Central Missouri. This course is available for Business Administration students and will count for free elective credit. Topics will include university resources, academic skills, time management, setting and achieving goals, as well as future careers choices within the six HCBPS emphasis areas including Accounting, Economics, Finance, Marketing, Management, and Computer Information Systems. Fall.

BADM 1500 - Foundations of Business (1)

The course will present an introduction to economics, accounting, marketing, finance, and management. Other areas to be examined include business organization, networking, workplace communication, and decision-making. Students will develop soft skills needed to enhance an individual's interactions, job performance and career prospects. Fall.

BADM 1505 - Job Shadowing (2)

The course will pair a High School student and a local employer. Areas examined include daily routine and operations of business positions, skills and responsibilities associated with the profession, and actual decision-making issues faced by an organization. Spring.

BADM 2000 - Orientation to HCBPS (0)

Seminar course to orient and inform transfer students regarding Harmon College of Business and Professional Studies (HCBPS) and UCM requirements, policies, and procedures.

BLAW 2720 - Legal Environment of Business (3)

Survey of a number of areas of law that are important to persons as citizens and as participants in economic activity. Included are the legal process, business ethics, contracts, torts, constitutional law, agency, business organization, and employment law. Fall, Spring, Summer.

BLAW 2750 - Legal and Ethical Decision Making in the Workplace (3)

Designed to help students identify, analyze and resolve both ethical and legal issues they will encounter both early in their careers and in the years to come.

BLAW 3721 - Law of Business Transactions (3)

Comprehensive discussion of laws concerning the formation and performance of contracts, sale of goods transactions, creation and transfer of negotiable instruments and selected other areas of commercial law. Prerequisite(s): BLAW 2720. An additional fee is associated with this course. Fall, Spring, Summer.

BLAW 4740 - Employment Law (3)

Current analysis of legal issues in the workplace relating to the employment process. Focus covers a broad spectrum, including Title VII/Equal Employment Opportunity, Fair Labor Standards Act, OSHA, ERISA and labor law. Policy issues involving discrimination, affirmative action and sexual harassment will be covered, as well as applied topics such as the legality of the hiring process. This course is co-listed with BLAW 5740. Prerequisite(s): BLAW 2720. An additional fee is associated with this course. Fall.

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. This course is co-listed with BLAW 5750. Prerequisite(s): BLAW 4740. An additional fee is associated with this course.

BTE 1200 - Applied Lab for Essentials of Managing Information (1)

Reinforcement activities for students with limited background in computer applications and tools, along with tutoring to prepare students for CTE 1210 Essentials of Managing Information.

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(s): Prior instruction in touch keyboarding.

BTE 2560 - Organizational Administration and Event Planning (3)

Provides students with foundational knowledge of organizational administrative procedures including examination of leadership styles, and strategies for planning, conducting, and following up events.

BTE 3110 - Consumer Finance and Economics (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.

BTE 4210 - Methods of Teaching Business and Marketing Education (3)

Prepares student as teachers of business education by assisting in the development of instructional methods and techniques for student-oriented classroom instruction. This course is co-listed with BTE 5210.

Prerequisite(s): Admission to Teacher Education Program; senior standing, or by school approval.

This is a professional education course.

BTE 4241 - Coordination of Cooperative Education Programs (3)

Organizing and implementing cooperative career and technical education programs. This course is co-listed with BTE 5241.

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. This course is co-listed with BTE 5260. Prerequisite(s): senior standing.

BTE 4280 - Implementing Business and Marketing Education (3)

Addresses information needed to design, implement, and maintain vocational career and technology education programs, and lab management and resources. This course is co-listed with BTE 5280.

Prerequisite(s): Admission to Teacher Education Program or approved alternative pathway to certification.

This is a professional education course.

BTE 4510 - Desktop Publishing for Business (3)

Includes business desktop publishing concepts that utilize basic to intermediate design principles for creating comprehensive document layouts with polished professional-looking images. This course is co-listed with BTE 5510.

BTE 4535 - Data Input Technologies (2)

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(s): Keyboarding speed of 35 wpm with 95 percent or higher accuracy on a 5-minute timed writing.

BTE 4550 - Publishing Applications for Business (2)

Business publishing using application tools and production fundamentals for print or web-ready documents and pages. Explores effective web communication techniques and principles of e-business. This course is co-listed with BTE 5550.

BTE 4560 - Emerging Technologies for Business (2)

Students will explore current and emerging technologies that focus on information management, dynamic communication, and collaboration in the digital business environment, considering attributes and benefits. This course is co-listed with BTE 5560. Sometimes offered online.

CTE 1000 - Introduction to Career and Technical Education (1)

An introduction to the fields associated with the profession of teaching Career & Technical Education in Missouri public schools. Will help set the stage for students who are planning to teach in the CTE fields.

CTE 1210 - Managing Information Using Computer Applications GE (2)

Application of current and emerging software to gather, evaluate, communicate, and manage information for academic and professional success while adhering to academic guidelines for research and data management. Fall, Spring, Summer.

UCM General Education Competency: This course fulfills Foundational Skills Competency #5 in the Managing Information area of the UCM General Education Program.

CTE 1300 - Introduction to Engineering Design (3)

Use engineering-related, problem-solving skills in design development processes. Create, analyze, and communicate model product solutions using solid modeling computer design software. Fall, Spring.

CTE 1500 - Gateway to Engineering (3)

Introduction of Project Lead The Way's® "Gateway To Technology" MS program instructional units. Includes math, science, and technology integration for success in teaching pre-engineering skills. Spring.

CTE 2000 - Technology and Society GE (3)

Explores the nature of technology, technological systems found in all cultures, the control of technology, and implications for change.

UCM General Education Competency: This course fulfills Foundational Skills Competency #5 in the Managing Information area of the UCM General Education Program.

CTE 3000 - Technology for Teaching (1)

Designed to assist preservice educators in implementing instructional technology in the classroom to effectively deliver lesson content, learn the basics of 1:1 implementation, and design engaging lessons based on current educational pedagogy and technology models. Recommended pairing with either FLDX 2150 or FLDX 4970. Prerequisite(s): Admission to the teacher education program. Fall, Spring.

CTE 3060 - Technical Writing GE (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. Prerequisite(s): ENGL 1020; or ENGL 1080 with a grade of C or higher.

UCM General Education Competency: This course fulfills Foundational Skills Competency #1 in the Writing II area of the UCM General Education Program.

This course is equivalent to MOTR ENGL 110 Technical Writing in the Written Communication Knowledge Area.

CTE 3116 - Creative Thinking for a Better World GE (3)

Understanding and applying formal creative thinking techniques as a responsibly-engaged member of society in order to affect positive change for a better world.

UCM General Education Competency: This course fulfills Knowledge Competency #9 and Foundational Skills Competency #4 in the Engagement area of the UCM General Education Program.

CTE 4000 - Special Projects in Career and Technical Education (1-3)

Investigation of contemporary problems and issues in career and technical education by selected individuals or groups *May be repeated for a maximum of 6 semester hours*. Prerequisite(s): written contract/proposal with objectives and written school consent.

CTE 4022 - Teaching/Administration Intern (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. This course is co-listed with CTE 5022. *May be repeated for a maximum of 6 semester hours*. Prerequisite(s): CTE 4145, CTE 4160, and school chair consent.

This is a professional education course.

CTE 4090 - Special Problems in Career and Technology 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*. Prerequisite(s): written contract/proposal with objectives and written school consent.

CTE 4100 - CTTE 1 - Curriculum & Assessment (3)

Introduce new CTE teachers to the developmental characteristics of students, curriculum mapping developing a scope sequence, and the role of CTE in public schools, including the mission of CTE. In addition, an introduction on using formative and summative assessments, along with becoming familiar with district policies and grading procedures will be presented. This course is co-listed with CTE 5010.

CTE 4110 - Foundations of Career & Technology Education (3)

Synthesizes Career and Technical Education's history, past and current issues, legislation, and philosophical foundations. This course is co-listed with CTE 5110.

This is a professional education course.

CTE 4115 - Lab Management & Safety (3)

Students will learn to plan and equip engineering and technology labs based on curriculum and educational standards. Students learn to develop a lab safety program. Prerequisite(s): junior standing or consent of instructor.

CTE 4120 - CTTE 2 - Curriculum & Methods (1)

Familiarize new CTE teachers with techniques for motivating students to learn. Instructional methods and strategies will be explored including reinforcing effort and providing recognition. Teachers will continue work on curriculum mapping along with developing unit and lesson plans. This course is co-listed with CTE 5020. Prerequisite(s): CTE 4100. Corequisite(s): CTE 4130. Sometimes offered as hybrid. Spring.

CTE 4125 - Methods of Teaching ETTE (3)

The course will introduce students to problem-based learning pedagogical techniques, guided inquiry, as well as develop expertise in the delivery/presentation phase of instruction. Prerequisite(s): Admission to the Teacher Education Program. CTE 4145 should either have been completed or taken concurrently.

This is a professional education course.

CTE 4130 - CTTE 3 - Curriculum, Methods, & Planning (2)

New CTE teachers will learn instructional planning techniques including lesson planning, unit planning, and the continuation of curriculum mapping. Teachers will work on instructional methods such as identifying similarities and differences, nonlinguistic representation, identifying learning styles, and cooperative learning. This course is co-listed with CTE 5030. Prerequisite(s): CTE 4100. Corequisite(s): CTE 4120. Sometimes offered as hybrid. Spring.

CTE 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. This course is co-listed with CTE 5015.

CTE 4145 - Curriculum Construction in Career and Technical Education (3)

Assist new in-service and pre-service educators in selecting and organizing course content, including federal and state guidelines, for career and technology education courses and programs. This course is co-listed with CTE 5145.

This is a professional education course.

CTE 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. This course is co-listed with CTE 5245.

CTE 4160 - Methods of Teaching Career and Technical Education (3)

Principles and techniques of presenting information, giving demonstrations and facilitating student learning including managing the learning environment. This course is co-listed with CTE 5260. Prerequisite(s): For BS degree, CTE 4145. For BSE degree, Admission to Teacher Education Program or instructor approval.

This is a professional education course.

CTE 4165 - Performance Assessment in Career and Technical Education (3)

Designed to assist CTE educators and administrators in critiquing, planning, developing, implementing, evaluating, and improving student performance assessments in the cognitive, affective, and psychomotor domains. This course is co-listed with CTE 5265. Prerequisite(s): Instructor consent.

CTE 4180 - Adult Education and Training (3)

Principles, objectives, philosophies, organization, administration, and supervision of adult education and training programs within career and technical education and/or industry teaching and learning environments. This course is co-listed with CTE 5280.

CTE 4210 - CTTE 4 - Current Topics in CTE (2)

Provides additional, just-in-time content for CTE teachers in curriculum, assessment, and special needs. Topics will include Missouri Learning Standards, academic integration, and 21st Century skills. Prerequisite(s): CTE 4130. Corequisite(s): CTE 4220. Sometimes offered as hybrid. Fall.

CTE 4220 - CTTE 5 - Management, Guidance, & Special Needs (2)

New CTE teachers will learn to design interventions and consequences for problem behaviors in the CTE classrooms and to adjust lessons to accommodate special needs learners. They will learn the difference between accommodations and modifications for students with special needs and how to communicate program requirements and skills for IEP development. Vocational guidance concepts will also be introduced in this course. Prerequisite(s): CTE 4130. Corequisite(s): CTE 4210. Sometimes offered as hybrid. Fall.

CTE 4230 - CTTE 6 - Work & Project Based Learning (2)

CTE teachers will learn to design high quality projects using project based learning. They will explore resources for career and college preparedness for students and begin working on professional teaching portfolios, as part of expectations for vocational guidance. Prerequisite(s): CTE 4220. Corequisite(s): CTE 4240. Sometimes offered as hybrid. Spring.

CTE 4240 - CTTE 7 - College and Career Readiness (2)

CTE teachers will revise curriculum maps and present professional teaching portfolios along with a college and career readiness project (vocational guidance expectations). Prerequisite(s): CTE 4220. Corequisite(s): CTE 4230. Sometimes offered as hybrid. Spring.

CTE 4972 - CTE Principles and Content Reading (2)

Designed to build on and apply the knowledge base of content area literacy and will serve as an introduction to the fields included in teaching Career Education. Work in this course will focus on the larger CTE unit but individual assignments will be based on the students' certification area.

This is a professional education course.

CTE 4973 - CTE Classroom and Lab Management Techniques (1)

Designed to provide students with a content specific class management experience that reflects the unique needs of a lab-based classroom.

This is a professional education course.

CTE 4974 - Educational Evaluation and Strategies (2)

Prepares students to enter the teaching profession in the public school, giving the preservice teacher instruction in the design and use of formative and summative assessment strategies to promote student learning. Additionally, students will apply teaching strategies and reflection practices during the student teaching experience, and complete the required pre-service teacher assessment document(s). This course is to be taken concurrently with the student teaching block. Prerequisite(s): Admission to the Teacher Education Program.

This is a professional education course.

CHEM 1005 - Survival Skills for College Chemistry (2)

Preparatory course to enhance success in General Chemistry by exploring concepts of chemistry and further developing algebraic and logic skills for solving applied chemical problems.

CHEM 1103 - Introduction to the Sciences: Chemistry GE (3)

Introduction to the basic concepts of chemistry and scientific methodology, emphasizing the connections between chemistry, technology, and all things in a modern world. Not available to those with credit in CHEM 1104.

UCM General Education Competency: This course fulfills Knowledge Competency #7 and reinforces Foundational Skills Competency #3 in the science non-laboratory area of the UCM General Education Program.

This course is equivalent to MOTR CHEM 001 Essentials in Chemistry in the Natural Sciences Knowledge Area.

This is a sustainability course.

CHEM 1104 - Introduction to the Sciences: Chemistry GE (4: 4 lecture, 0 lab)

Introduction to the basic concepts of chemistry and scientific methodology, emphasizing the connections between chemistry, technology, and all things in a modern world. Laboratory included. Not available to those

with credit in CHEM 1103. An additional fee is associated with this course.

UCM General Education Competency: This course fulfills Knowledge Competency #7 and reinforces Foundational Skills Competency #3 in the Science with a Laboratory area of the UCM General Education Program.

This course is equivalent to MOTR CHEM 001L Essentials in Chemistry with Lab in the Natural Sciences Knowledge Area.

CHEM 1131 - General Chemistry I GE (5: 5 lecture, 0 lab)

First of a two course sequence that introduces the fundamental principles of chemistry and the reactivity of chemical elements and compounds. This course emphasizes modern atomic theory, structure and behavior of atoms and molecules, physical properties of matter, chemical reactions and energy relations, periodicity, and the mole concept and its applications. Includes laboratory experience. Prerequisite(s): A minimum score of 24 on the mathematics section of the ACT, or a combined score of 1090 on the mathematics and critical reasoning sections of the SAT, or a passing score on a mathematics examination approved by the chemistry faculty, or a grade of C or better in MATH 1111.

An additional fee is associated with this course.

UCM General Education Competency: This course fulfills Knowledge Competency #7 and reinforces Foundational Skills Competency #3 in the Science with a Laboratory area of the UCM General Education Program.

This course is equivalent to MOTR CHEM 100L Chemistry with Lab in the Natural Sciences Knowledge Area.

CHEM 1132 - General Chemistry II (5: 5 lecture, 0 lab)

Continuation of CHEM 1131. This course emphasizes intermolecular forces, solutions, kinetics, acid-base chemistry, chemical equilibria, thermodynamics and electrochemistry. Includes laboratory experience. Prerequisite(s): CHEM 1131 with a C or better. An additional fee is associated with this course.

CHEM 1603 - Elementary Organic and Biochemistry (3)

An introduction to organic chemistry and biochemistry for those who need no additional chemistry training. Laboratory not included. Not available for those with credit in CHEM 1604. Prerequisite(s): CHEM 1103 or CHEM 1104 or high school chemistry.

CHEM 1604 - Elementary Organic and Biochemistry (4: 4 lecture, 0 lab)

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(s): CHEM 1104. An additional fee is associated with this course.

CHEM 1911 - Introductory Chemistry Laboratory Experience (1:1 lab)

Introduction to the basic chemistry laboratory techniques and scientific methodology, emphasizing the connections between chemistry and the modern world. Prerequisite(s): consent.

CHEM 3111 - Inorganic Chemistry (4: 4 lecture, 0 lab)

An intermediate level inorganic course with emphasis on main group and organometallic chemistry. Laboratory included. Prerequisite(s): CHEM 1132 with a grade of C or better and CHEM 3341 with a C or better. An additional fee is associated with this course.

CHEM 3212 - Quantitative Analysis (4: 4 lecture, 0 lab)

Intermediate level course that introduces students to principles and techniques employed in proper quantitative chemical analysis. Application of chemical principles to the separation and determination of elements and compounds will be covered. Includes laboratory experience. Prerequisite(s): CHEM 1132 with a C or better. An additional fee is associated with this course.

CHEM 3341 - Organic Chemistry I (4: 4 lecture, 0 lab)

A lecture and laboratory course in the chemistry of carbon compounds. Prerequisite(s): CHEM 1132 with a C or better. An additional fee is associated with this course.

CHEM 3342 - Organic Chemistry II (4: 4 lecture, 0 lab)

A continuation of CHEM 3341. Prerequisite(s): CHEM 3341 with a C or better. An additional fee is associated with this course.

CHEM 3421 - Biochemistry (3)

Provides a foundation in biochemistry. Topics covered include amino acids, proteins, lipids, membranes, carbohydrates, enzyme kinetics and mechanisms, and carbohydrate metabolism. Prerequisite(s): CHEM 3341 with a C or better.

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(s): a minimum of 17 semester hours of chemistry. Students are encouraged to enroll during their junior year.

CHEM 4010 - Special Topics in Chemistry (1-4)

Topics of contemporary significance not given in-depth coverage in regularly offered courses. *May be repeated as topics vary.* Prerequisite(s): consent of instructor.

CHEM 4111 - Advanced Inorganic Chemistry (3)

An advanced study of inorganic compounds with a focus on the transition elements and current issues. Prerequisite(s): CHEM 3111 with a C or better.

CHEM 4221 - Environmental Chemistry (3)

Chemical phenomena occurring in soil, atmospheric and aquatic environments; consideration of natural resources and energy. Prerequisite(s): CHEM 3212 and CHEM 3341 each with a C or better.

CHEM 4231 - Instrumental Analysis (4: 4 lecture, 0 lab)

A study, including applications, of instrumental methods of chemical analysis. Prerequisite(s): CHEM 3212 and (PHYS 1102 or PHYS 2122) each with a C or better. An additional fee is associated with this course.

CHEM 4313 - Advanced Organic Chemistry (3)

A lecture survey of general topics not covered in the CHEM 3341-CHEM 3342 sequence, and an extension to topics of current interest in organic chemistry. Prerequisite(s): CHEM 3342 with a C or better.

CHEM 4421 - Advanced Biochemistry (3)

Catabolic and anabolic metabolism of biomolecules, catalytic mechanisms and regulation of enzymes, nucleic acid structure and function, and computer resources. Prerequisite(s): CHEM 3342 and CHEM 3421 with a C or better. An additional fee is associated with this course.

CHEM 4431 - Biochemistry Laboratory (2)

Introduction to biochemical literature, computer based resources, and experimental techniques used to purify and characterize biomolecules. Prerequisite(s): CHEM 3421 with a C or better. An additional fee is associated with this course.

CHEM 4531 - Physical Chemistry: Thermodynamics and Kinetics (4: 4 lecture, 0 lab)

Kinetic-molecular theory of gases, thermodynamics, chemical equilibria, and chemical kinetics. Laboratories are project-based and include calorimetry and spectroscopy. Laboratory included. Prerequisite(s): CHEM 1132, (PHYS 1102 or PHYS 2122) and MATH 1152 each with a C or better. An additional fee is associated with this course.

CHEM 4532 - Physical Chemistry: Quantum Mechanics and Spectroscopy (4: 4 lecture, 0 lab)

Quantum mechanics, atomic and molecular structure, spectroscopy, electrical and magnetic properties of molecules. Laboratories include atomic and molecular spectroscopy, molecular modeling, and mathematical modeling. Laboratory included. Prerequisite(s): CHEM 1132, (PHYS 1102 or PHYS 2122) and MATH 1152 each with a C or better. An additional fee is associated with this course.

CHEM 4800 - Forensic Chemistry and Toxicology (3)

Introduction to the principles and applications of classical and instrumental methods of chemical analysis in forensic chemistry and forensic toxicology. Prerequisite(s): CHEM 1131, CHEM 1132, CHEM 3212 with a C or better and CHEM 3341 with a C or better.

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. Prerequisite(s): CHEM 3212 and consent of instructor.

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(s): Consent of instructor and school. An additional fee is associated with this course.

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(s): consent.

CFD 1010 - Individual and Family Relationships GE (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. Fall, Spring, Summer. Sometimes offered online.

UCM General Education Competency: This course fulfills Knowledge Competency #8 and reinforces Foundational Skills Competency #4 in the Social & Behavioral Sciences area of the UCM General Education Program.

CFD 1220 - Child and Adolescent Development (3)

An introduction to major theories and research on child and adolescent development. Emphasis is on dynamic forces underlying growth and change, such as physical, cognitive and psychosocial development. Fall, Spring, Summer. Sometimes offered online.

This is a professional education course.

CFD 1230 - Observation of Children (2)

Techniques of observation and actual observation of children. A criminal background check will be completed prior to observations. Fall, Spring. Sometimes offered online.

This is a professional education course.

CFD 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. Fall, Spring.

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. Fall, Spring, Summer. Sometimes offered online.

CFD 3240 - Parent-Child Interaction (3)

Development and understanding of adult-child interaction in the family setting. Fall, Summer. Sometimes offered online.

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, health, nutrition, safety, and program organization. Fall, Spring, Summer. Sometimes offered online.

This is a professional education course.

CFD 3260 - Youth Culture and Development (3)

This online course will examine the cultural contextual factors that affect youth from a holistic perspective within and outside the family unit. The course will provide an understanding of the cultural heritage of differing family structures and types. Students will explore the social and educational processes experienced by youth through in-depth reading, writing, discussion, critical listening, viewing of contemporary videos, and interviews with youth and families. Students will be encouraged to think critically about society and culture, gain further knowledge of how different cultural youth groups fit historically into society, and examine the results of how history has shaped the current cultural climate of the U.S. Sometimes offered online.

CFD 3710 - Field Experience in Child and Family Development (3)

Supervised training and work experience in approved professional organizations in the field of child and family development. Prerequisite(s): CFD 1220 and CFD 1230. Fall, Spring. Sometimes offered online.

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.* Offered as needed.

CFD 4220 - Sexuality Across the Lifespan (3)

Addresses human sexuality across the life span using a life course and cultural contextual perspective. Historical, biological, psychological, environmental, and familial influences will be examined. This course is co-listed with CFD 5221. Fall, Spring.

CFD 4250 - Selected Issues in Child and Family Development (3)

In-depth study of selected issues in child and family development. This course is co-listed with CFD 5251. *May be repeated for a maximum of 9 semester hours.* Prerequisite(s): junior standing or consent of the instructor.

CFD 4260 - Adulthood (3)

Structured to introduce research approaches to the study of adult development through a cultural contextual exploration of the social, emotional, behavioral and educational processes. This course is co-listed with CFD 5260. Fall, Spring.

CFD 4510 - Early Childhood Approaches (3)

The physical, motor, intellectual, social, and emotional development of the child. Development of an intelligent philosophy of adult-child relationships. This course is co-listed with CFD 5510. Taught only as an online course.

CFD 4520 - Multicultural Study and Approaches with Families (3)

Structured to examine multi-cultural individuals and families within the context of their unique cultural heritage. Special attention is focused on the external conditions that affect the internal workings of families and methods that have been found to be sensitive in addressing the needs of diverse groups. This course is co-listed with CFD 5520. Fall, in odd numbered years only. Sometimes offered online.

CFD 4530 - Transition to Marriage (3)

Structured to provide information in regards to partner selection, to help individuals and couples understand the contexts within which they are embedded so that they can develop systems of support for their relationship, and to present suggestions for nourishing the relationship. This course is co-listed with CFD 5530. Summer in odd numbered years only, Taught only as an online course.

CFD 4540 - Addiction and the Family (3)

An overview of various addictions with emphasis on substance use disorders and their effect on individuals, families, and communities. The course will focus on prevention and treatment. This course is co-listed with CFD 5540. Fall, in even numbered years only

CFD 4550 - Health & Human Services (3)

Introduction to the role of professionals who provide health and human services to meet the needs of individuals and families throughout their developmental stages. This course is co-listed with CFD 5550.

CFD 4560 - Divorce (3)

Structured to introduce research literature on divorce. The changes that occur in family structures over time in the pre-divorce, divorce, and post-divorce process will be examined. This course is co-listed with CFD 5560. Summer in even numbered years only.

CFD 4570 - Death, Loss, and Grief Across the Lifespan (3)

Intended to explore theory and research related to death, dying, loss, and grief across the lifespan and the ways that support is provided or lack thereof to bereaved individuals within cultural context. We shall explore individual, familial, religious, cultural, societal, and other human developmental contributions to such understandings and experiences. This course is co-listed with CFD 5570. Fall, in even numbered years only. Sometimes offered online.

CFD 4580 - Resilience in Children and Adolescents (3)

Intends to introduce selected theories and research on situations that place children and adolescents at risk for emotional, behavioral, and academic problems. In addition, research on stress/coping and resilience will be emphasized. This course is co-listed with CFD 5580.

CFD 4590 - Health Issues in Childhood and Adolescence (3)

Will present selected health issues and its implications for the children/adolescents, family and society from a stress and coping perspective. In addition, it is intended to serve as an introductory course to the profession of Child Life. This course is co-listed with CFD 5590. Spring in even numbered years only

CFD 4710 - Internship (3)

Provides experience for students in cooperating businesses, agencies and organizations. This course is co-listed with CFD 5711. *May be repeated for a maximum of 12 semester hours.* Prerequisite(s): CFD 3710 and school consent. Summer.

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. Prerequisite(s): senior standing, approval of faculty advisor. Fall, Spring. Sometimes offered online.

CFD 4850 - Family Policy and Advocacy (3)

Provides an overview of trends and issues in family policy and advocacy, emphasizing the impact of laws, policies, programs on individuals and family. This course is co-listed with CFD 5850. Fall, Spring. Sometimes offered online.

CHIN 1701 - Elementary Chinese I GE (3)

Fundamental principles of pronunciation, vocabulary and idiomatic expressions of spoken Mandarin Chinese. Not open to native speakers or advanced students without permission of school chair.

UCM General Education Competency: This course fulfills Knowledge Competency #6 and reinforces Foundational Skills Competency #2 in the Languages area of the UCM General Education Program.

CHIN 1702 - Elementary Chinese II GE (3)

Continuation of CHIN 1701. Not open to native speakers or advanced students without permission of school chair. Prerequisite(s): CHIN 1701.

UCM General Education Competency: This course fulfills Knowledge Competency #6 and reinforces Foundational Skills Competency #2 in the Languages area of the UCM General Education Program.

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.* Prerequisite(s): 6 semester hours of Chinese and consent of the school chair.

CHST 1000 - First Year Foundations For the College of Health, Science, and Technology (1)

A one hour course designed to introduce students to the University of Central Missouri, the College of Health, Science and Technology, College Faculty and major.

CHST 2000 - Orientation to CHST (0)

Seminar course to orient and inform transfer students regarding College of Health, Science, and Technology (CHST) and UCM requirements, policies, and procedures.

CD 1000 - Introduction to Communication Disorders (3)

Etiology, incidence, and characteristics of communicative disorders. Corequisite(s): CD 1800.

CD 1401 - American Sign Language 1 GE (3)

Fundamental principles of ASL production and comprehension; the building of basic sign vocabulary for words and expressions; exploration of deaf history and culture.

UCM General Education Competency: This course fulfills Knowledge Competency #6 and reinforces Foundational Skills Competency #2 in the Languages area of the UCM General Education Program.

CD 1402 - American Sign Language 2 GE (3)

A continuation of ASL 1 with attention to expanding and reinforcing receptive/expressive signing skills and awareness of cultural contexts of American Sign Language usage. Prerequisite(s): CD 1401 or equivalent (with permission of instructor) with a C or better

UCM General Education Competency: This course fulfills Knowledge Competency #6 and reinforces Foundational Skills Competency #2 in the Languages area of the UCM General Education Program.

CD 1800 - Observation of Clinical Practicum in Communication Disorders (1)

Ten (10) clock hours of supervised observation in the evaluation and treatment of children and adults with disorders of speech, language, and hearing. Students who do not plan to take CD 3503, CD 4504, and CD 4505 will need to complete a total of 25 clock hours of supervised observation in this course (e.g., those seeking observation hours to meet SLPA licensing requirements). Corequisite(s): CD 1000.

CD 2000 - The Bases of Speech and Language (2)

Intended for nonmajors; basics of normal communication, overview of communication impairments in children and effective instructional strategies, principles of collaboration with SLPs.

This is a professional education course.

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 physiological 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(s): admission to the undergraduate program in speech-language pathology.

CD 3503 - Principles of Clinical Management (3)

Fundamental clinical concepts as a foundation for diagnosis and intervention in communication disorders. Requires 5 clock hours of clinical observation. Prerequisite(s): admission to the undergraduate program in speech-language pathology.

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(s): 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(s): admission to the undergraduate program in speech-language pathology.

CD 4401 - Language Development (3)

Theories and sequence of normal language acquisition.

CD 4402 - Language Acquisition in Children with Developmental Disabilities (2)

Intended for non-majors; theories and sequences of language development with emphasis on language acquisition and deficiencies exhibited by children with various developmental disabilities.

This is a professional education course.

CD 4404 - Assessment and Treatment of Language-Based Literacy Disorders (3)

Addresses language and cognitive systems involved in encoding, decoding, and comprehension as related to reading, spelling, and writing disorders and the impact of oral language disorders (phonological, morphological, syntactical and semantic systems) on the development of literacy skills. Application of literacy research to assessment and intervention of language disorders that impact reading, spelling, and writing will be provided. Students will investigate the crucial role speech-language pathologists and other professionals play in early identification of children at risk. This course is co-listed with CD 5404. Prerequisite(s): Admission to the undergraduate program in speech-language pathology or with school approval.

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(s): 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. Requires 5 clock hours of clinical observation. Prerequisite(s): admission to the undergraduate program in speech-language pathology.

CD 4505 - School-age Issues in Communication Disorders (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. Requires 5 clock hours of clinical observation. Prerequisite(s): admission to the undergraduate program in speech-language pathology.

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(s): admission to the undergraduate program in speech-language pathology or with departmental approval.

CD 4512 - Best Practices in Early Childhood Intervention (3)

Nature of communication disorders in the birth - five population, special emphasis on assessment and intervention models. Required for participation in graduate level ECCSEP practicum. Prerequisite(s): admission to the undergraduate program in speech-language pathology or with departmental approval.

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(s): 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(s): CD 4701 and 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. This course is co-listed with CD 5608. Prerequisite(s): CD 4706.

CD 4802 - Undergraduate Clinical Practicum I (1)

Orientation to specialized practice in the management of communication disorders for first time clinicians. Prerequisite(s): admission to the undergraduate program in speech-language pathology or consent of school chair; overall GPA of 3.20; 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. An additional fee is associated with this course.

CD 4803 - Undergraduate Clinical Practicum II (1)

Specialized practice in the management of communication disorders. Prerequisite(s): admission to the undergraduate program in speech-language pathology or consent of school chair; overall GPA of 3.20; a grade of C or better in all previous CD courses, and CD 3503, CD 4701, CD 4802 and either CD 4504 or CD 4505. An additional fee is associated with this course.

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(s): consent of school.

CDM 2000 - Special Activities in Crisis and Disaster Management (3)

Engaged learning and service learning experiences that provide a context to information presented in the classroom. Emergency services, military, and field experiences contribute to knowledge. *May be repeated.*

CDM 3000 - 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.

CDM 3035 - Emergency Response Planning (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. Prerequisite(s): CDM 3000 or permission.

CDM 3225 - 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. Prerequisite(s): CDM 3000 or permission.

CDM 3400 - 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. Prerequisite(s): CDM 3000 or permission.

CDM 4000 - Special Topics in Crisis and Disaster (3)

Exploration of emerging issues in the management of crises and in depth examination of special topics impacting on disasters. This course is co-listed with CDM 5000. *May be repeated.*

CDM 4015 - Catastrophic Readiness (3)

Exploration of catastrophic events, as contrasted with disasters, requiring unique strategies, techniques, and tools to achieve effective response and recovery for the community and nation. This course is co-listed with CDM 5015.

CDM 4035 - Disaster and Society (3)

Impact of disasters on social systems. Disaster mythology; individual and community response. Communications within affected groups and organizations. Prerequisite(s): CDM 3000 or permission.

CDM 4200 - 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.

CDM 4215 - Environmental Disasters (3)

Examine man-made, industrial, and technological events that produce environmental disasters. Explore the sociopolitical issues that contribute to environmental disasters. This course is co-listed with CDM 5215. Only offered online.

CDM 4245 - Managerial Issues in Hazardous Materials (3)

Addresses managerial concerns of a hazardous materials manager at the community/organization level. Emphasis is placed on regulatory compliance and risk management. Other subjects covered include response planning, transportation and storage, ecosystem impacts and remediation. Prerequisite(s): CDM 3000 or permission.

CDM 4400 - 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. Prerequisite(s): CDM 3000 or consent.

CDM 4515 - Safety and Health for Emergency Responders (3)

Principles of risk management for emergency services organizations. Emphasis is placed upon supervisory and managerial responsibilities for responder safety and health.

CDM 4535 - Emergency Services Management (3)

Principles of management for emergency services, including community-focused leadership, strategic planning, and integrated administrative skills.

CDM 4575 - Emergency Services Personnel Management (3)

Personnel management, organizational development, recruitment and selection, performance management systems, and collective bargaining in the context of emergency services.

CDM 4715 - 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. This course is co-listed with CDM 5715. Prerequisite(s): CDM 3000.

CDM 4735 - Critical Infrastructure (3)

Critical Infrastructure is vital to the economic and national security and must be protected from intentional and unintentional human acts and natural disasters. The course investigates dependencies and interdependencies, risk methodologies, security strategies and tactics to protect those critical infrastructures. This course is co-listed with CDM 5735. Taught only as an online course.

CDM 4745 - 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. This course is co-listed with CDM 5745. Prerequisite(s): CDM 3000.

CDM 4800 - 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. Prerequisite(s): CDM 3000 or permission, and senior standing.

CDM 4900 - 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 semester hours.* Prerequisite(s): departmental approval.

CDM 4910 - 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 semester hours.* Prerequisite(s): departmental approval.

CDM 4990 - 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 semester hours.* Prerequisite(s): departmental approval and junior standing.

COMM 1000 - Public Speaking GE (3)

A study and practice of basic principles involved in discovering, arranging, delivering, and evaluating ideas in speech situations. Fall, Spring.

UCM General Education Competency: This course fulfills Foundational Skills Competency #2 in the Communication area of the UCM General Education Program.

This course is equivalent to MOTR COMM 110 Fundamentals of Public Speaking in the Oral Communication Knowledge Area.

COMM 1050 - Fundamentals of Oral Communication Competency GE (3)

Provides the student with the opportunity to understand and practice the lifelong process toward communication competency in three specific contexts: interpersonal, small group, and presentational settings.

UCM General Education Competency: This course fulfills Foundational Skills Competency #2 in the Communication area of the UCM General Education Program.

This course is equivalent to MOTR COMM 100 Introduction to Communications in the Oral Communication Knowledge Area.

COMM 1100 - Introduction to Communication (1)

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. Fall, Spring.

COMM 1200 - Introduction to Mass Communication GE (3)

Historical development of print, electronic and digital media; overview of industries that use media and how economics, regulation, society and ethics shape media content. Fall, Spring.

UCM General Education Competency: This course fulfills Knowledge Competency #6 and reinforces Foundational Skills Competency #4 in the Humanities area of the UCM General Education Program.

COMM 1275 - Introduction to Media Technology (1)

Provides a basic understanding of the use of Macintosh computers, cameras, microphones, and the necessary cable and setup for a studio production, as well as remote productions.

COMM 1500 - Writing Across the Media (3)

Introduction to the wide variety of writing for the media. Prerequisite(s): ENGL 1020 or ENGL 1080. Fall, Spring, Summer.

COMM 1519 - Media Aesthetics (3)

Focuses on the analysis and production of fundamental image and sound elements in visual and aural media. Fall, Spring.

COMM 1520 - Introduction to Digital Journalism (3)

Introduces students to the wide variety of writing styles used in contemporary media industries. By the end of the semester, students will be able to write for print, broadcast, film, and new media platforms. Prerequisite(s): COMM 1500. Fall.

COMM 1630 - Web Content and Promotion Strategies (3)

An introduction to the role of a web manager and the skills utilized in managing and promoting a professional web presence.

COMM 1700 - Dale Carnegie: Generation Next (2)

Serves to enhance students' self-confidence and provide them knowledge to be successful in their vocational pursuits.

COMM 2000 - Media Literacy GE (3)

Explores the relationships between media, its consumers, and producers. Integrates cultural, technological, and economic perspectives on mass media and visual communication. Fall, Spring, Summer.

UCM General Education Competency: This course fulfills Knowledge Competency #9 and Foundational Skills Competency #4 in the Engagement area of the UCM General Education Program.

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. Fall, Spring, Summer.

COMM 2275 - Screenwriting (3)

Principles, techniques, and formats of narrative screenwriting. Prerequisite(s): COMM 1500. Fall, Summer.

COMM 2320 - Foundations of Rhetorical Theory (3)

Nature and functions of rhetoric across various communication situations. Spring.

COMM 2330 - Communication in Small Groups/Teams (3)

Communication process as it relates to small group behavior, including the study of principles, methods, and forms of discussion used in small groups. Fall, Spring.

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 - Introduction 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. Fall.

COMM 2410 - Multimedia Production (3)

Principles and practices of designing multimedia for the media. The course covers both hardware and software appropriate to the discipline, including hands-on experience. Fall, Spring, Summer.

COMM 2411 - Audio Production (3)

An introduction to the 'science of sound' and operation of professional audio equipment and software. Prerequisite(s): COMM 1275 and COMM 1500. Fall, Spring, Summer.

COMM 2412 - Introduction to Digital Video (3)

Basic theoretical understanding and practical application of digital video production techniques including: image composition, lighting, field and studio techniques, non-linear editing. Prerequisite(s): COMM 1275, COMM 1500 and COMM 1519. Fall, Spring, Summer.

COMM 2475 - Multicam Studio Production (3)

Preparation and production of multi-camera programming in a studio environment. Prerequisite(s): COMM 1275. Fall.

COMM 2520 - Editing and Design (3)

Copyediting, rewriting, headline writing and page design. Prerequisite(s): COMM 1500. Spring.

COMM 2530 - Visual News Production (3)

Effective use of photography to communicate in the digital media. Prerequisite(s): COMM 1519. Fall.

COMM 2540 - Sports Reporting (3)

Develop reporting and writing skills for sports journalists and announcers. Prerequisite(s): COMM 1500. Spring.

COMM 2560 - Introduction to Sports Broadcasting (3)

Provides students a foundation in sports television broadcasting. Students will gain experience in preproduction, producing, directing, announcing, graphics, development and camera operation for live sporting events. Prerequisite(s): COMM 1275. Fall.

COMM 2700 - Dale Carnegie: Effective Communication and Human Relations (3)

Students will enhance communication and interpersonal relation skills, build self-confidence, and develop knowledge and practice in communicating effectively both in interpersonal and public settings. Fall, Spring.

COMM 3000 - Film Appreciation GE (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. Fall, Spring, Summer.

UCM General Education Competency: This course fulfills Knowledge Competency #6 and reinforces Foundational Skills Competency #4 in the Fine Arts area of the UCM General Education Program.

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. Fall, Spring, Summer.

COMM 3050 - Cinematography (3)

A practical introduction to the art and craft of motion picture creative image control, focusing on the essential principles, concepts, and tools of lighting and cinematography. Prerequisite(s): COMM 2412

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. Fall, Spring, Summer.

COMM 3120 - Career Readiness for Digital Media Production (1)

Career Readiness for Digital Media Production will serve as a halfway point in the program in which students' performance is evaluated and a clear plan for students' junior and senior years is developed. Prerequisite(s): COMM 2410, COMM 2411 and COMM 2412. Spring.

COMM 3200 - Digital Media Practicum (1-9)

Laboratory experience in the mass media. *May be repeated for a maximum of 9 semester hours.* Prerequisite(s): consent of instructor. Fall, Spring, Summer.

COMM 3201 - Muleskinner Practicum (1-3)

Prerequisite(s): Instructor consent.

Laboratory experience at the Muleskinner/digitalburg.

COMM 3202 - KMOS Practicum (1-3)

Laboratory experience at KMOS-TV. Prerequisite(s): Instructor consent.

COMM 3203 - The Beat Practicum (1-3)

Laboratory experience at The Beat radio station. Prerequisite(s): Instructor consent.

COMM 3204 - CTV Practicum (1-3)

Laboratory experience at CTV television production area. Prerequisite(s): Instructor consent.

COMM 3220 - Performance for the Media (3)

The theory and practical application of vocal performance in support of traditional and new media. Prerequisite(s): COMM 2411 and COMM 2412. Spring.

COMM 3315 - Improving Listening Abilities (3)

Theories and principles for improving listening in a variety of communication situations. Fall, Summer.

COMM 3320 - Communication of Social Movements (3)

Focuses on how the communicative acts of social movements adapt to the constituencies they are attempting to change. Prerequisite(s): COMM 1000. Fall.

This is a sustainability course.

COMM 3325 - Nonverbal Communication (3)

Provides a summary of the key theories and research in Nonverbal Communication. The course examines selected scholarship on the codes of nonverbal communication; e.g., space and territoriality; physical appearance, body alteration and modification; movement and touch; and paralanguistics. Fall.

COMM 3327 - Improving Interviewing Skills (3)

Theory and purposes of interviewing, emphasizing the principles and practice of interviewing skills. Spring.

COMM 3340 - Intercultural Communication GE (3)

Communication between and among cultures, including enculturation and relational implications of cross-cultural communication across a variety of contexts.

UCM General Education Competency: This course fulfills Knowledge Competency #9 and Foundational Skills Competency #4 in the Engagement area of the UCM General Education Program.

COMM 3350 - Professional Communication (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(s): COMM 1000. Fall.

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.* Fall, Spring.

COMM 3391 - Teaching High School Speech and Debate (3)

COMM 3400 - History of American Film (3)

Development of the American film from the silent era to the present. Prerequisite(s): COMM 3000. Fall.

COMM 3450 - Digital Video Editing (3)

Techniques and procedures of digital video editing along with a study of theoretical approaches. Prerequisite(s): COMM 2412. Fall, Spring.

COMM 3500 - Muleskinner I (3)

Advanced techniques of reporting the news, including use of photojournalism and audio. Students will be learning in a laboratory environment for the Muleskinner. Prerequisite(s): COMM 1520 and COMM 2520.

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(s): admission to the journalism minor, Bachelor of Science in Education. COMM 2412. Summer.

COMM 3535 - Multimedia Journalism (3)

Techniques of presenting news across media platforms (print, broadcast, and online) and through social media. Spring.

COMM 3730 - Conflict Management (3)

An examination of communication factors which contribute to conflicts and an analysis of their resolution. Spring, in odd numbered years only

COMM 4100 - Radio Production (4: 3 lecture, 1 lab)

Techniques of digital-audio post-production and practical studio performance applications. This course is co-listed with COMM 5100. Prerequisite(s): COMM 2411 or MUS 2410. Fall.

COMM 4120 - Advanced Multimedia Production (3)

Advanced multimedia applications, including audio/video/animation, and incorporation of moving images, two-dimensional images and text to create interactive, multi-media environments. This course is dual listed with COMM 5110. Prerequisite(s): COMM 2410 and COMM 2412. Spring.

COMM 4130 - Audio for Digital Cinema (3)

This course explores the technical and psychoacoustic aspects of mixing, recording, and mastering sound for digital cinema. This course is dual listed with COMM 5140. Prerequisite(s): COMM 2411 and COMM 2412; or MUS 2410. Spring.

COMM 4160 - Advanced Sports Broadcasting (3)

This is an advanced course in sports broadcasting, with special emphasis on the development of talk shows, highlight shows, and sports newscasts. This course is co-listed with COMM 5160. Prerequisite(s): COMM 2560. Spring.

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. This course is co-listed with COMM 5200. *May be repeated for a maximum of 9 semester hours (only 6 hours will apply to the major).* Fall, Spring.

COMM 4235 - Media Promotions (3)

By studying both the history and practice of content marketing, branded entertainment, viral marketing, gamification, and transmedia storytelling, students will learn how to effectively use social media, blogs, games, online videos, and stories as promotional tools. This course is co-listed with COMM 5235. Prerequisite(s): COMM 2410, COMM 2411 and COMM 2412. Fall, Spring.

COMM 4240 - Media Management (3)

Elements involved in the organization and successful operation of mass media enterprises; special emphasis upon interpersonal problems. This course is co-listed with COMM 5240.

COMM 4245 - Media Economics and Sales (3)

Business aspects of mass media in a competitive economy, including techniques for selling advertising space and time. This course is co-listed with COMM 5245.

COMM 4250 - The Law and Digital Media (3)

Application of principles of law to the mass communication media, media practice, advertising, and freedom of information, including libel, right of privacy, copyright. This course is co-listed with COMM 5251. Prerequisite(s): junior standing, senior standing. Fall, Spring.

COMM 4270 - Family Communication (3)

Integrates theories, models, and research on how humans exchange information in families; explores the changing nature of the family; and examines how families influence subsequent interpersonal behaviors. This course is co-listed with COMM 5271. Spring.

COMM 4280 - Mass Media and Society (3)

Critical examination of the interaction between audiences and media. This course is co-listed with COMM 5281. Fall.

COMM 4285 - Women and Minorities in Media (3)

The study of women and minorities, their contributions and images, in a variety of media. This course is co-listed with COMM 5285. Prerequisite(s): COMM 1200 or COMM 3010.

COMM 4290 - Special Projects in Mass Communication (1-3)

Individual study/research in mass communication. This course is co-listed with COMM 5290. *May be repeated for a maximum of 3 semester hours.* Prerequisite(s): written consent. Fall, Spring.

COMM 4295 - Internship (1-6)

A practical training experience for the application of mass media. *May be repeated for a maximum of 6 semester hours.* Prerequisite(s): completion of the pre-admission requirements for internship placement and departmental approval. Fall, Spring, Summer.

COMM 4300 - Special Projects in Speech Communication (1-3)

This course is co-listed with COMM 5301. *May be repeated for a maximum of 6 semester hours.* Prerequisite(s): Consent. Fall, Spring.

COMM 4320 - Social Influence (3)

Focuses on the use of theories of persuasion to understand emotional and cognitive responses to messages used to impact interpersonal relationships, small groups, and/or society. This course is co-listed with COMM 5320.

This is a sustainability course.

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. This course is co-listed with COMM 5331. Prerequisite(s): COMM 3010.

COMM 4335 - Gender Communication (3)

Gender as it influences communication processes in intrapersonal, interpersonal, group, public and mediated contexts. This course is co-listed with COMM 5335. Prerequisite(s): COMM 3010. Fall.

COMM 4340 - Rhetorical Analysis and Society (3)

An examination of the Foundations and development of rhetorical theory with an emphasis on rhetorical criticism research. This course is co-listed with COMM 5340.

COMM 4370 - Special Topics in Communication (1-3)

The study of subjects not included in school 's regular offering. This course is co-listed with COMM 5370. *May be repeated for a maximum of 6 semester hours.* Prerequisite(s): Consent. Fall, Spring.

COMM 4390 - Contemporary Communication (3)

Public address as it functions in contemporary society in a variety of traditional and mass media settings. This course is co-listed with COMM 5390. Fall, in odd numbered years only

COMM 4412 - Narrative Production (3)

Advanced production of narrative programs in digital formats. This course is co-listed with COMM 5412. Prerequisite(s): COMM 3050 and COMM 3450. Spring.

COMM 4435 - Advanced Multicam Production (3)

The theories, techniques, and skills of producing a full-length newscast including producing, writing, reporting performance, ENG and editing. This course is co-listed with COMM 5435. Prerequisite(s): COMM 2412 and COMM 2475. Spring.

COMM 4475 - New Media Technologies (3)

Technological developments and their uses (existing and potential) as information distribution systems. Offered as needed.

COMM 4490 - Senior Capstone Seminar (1)

Preparation of online portfolio and demo reel representing the student's best work along with preparation for entering the job market. Designed to be taken in the last semester of a student's coursework. Prerequisite(s): COMM 3120 and Senior status. Fall, Spring.

COMM 4500 - History of the American Press (3)

Development of the American press from colonial days to modern times; factors affecting the shape and contents of the press in contemporary society. This course is co-listed with COMM 5500. Summer.

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. This course is co-listed with COMM 5510. Prerequisite(s): COMM 1520, COMM 2520, and COMM 2530. Fall, Summer.

COMM 4535 - Muleskinner II (3)

Advanced techniques of reporting the news and developing features, editorials, and investigative stories through writing, video, and social media. Students will be learning in a laboratory environment for the Muleskinner. This course is co-listed with COMM 5535. Prerequisite(s): COMM 3500. Spring.

COMM 4550 - Advanced Screenwriting (3)

In this course, students will write the first-draft of a feature-length screenplay. Writing a feature differs significantly from writing a short screenplay, and over the course of the semester, students will build on their foundational screenwriting knowledge through writing assignments and workshops. In addition, students will learn how to work with a writing partner, adapt source material, and write query letters to agents and producers. This course is co-listed with COMM 5550. Prerequisite(s): COMM 2275. Spring.

COMM 4560 - Documentary Production (3)

Documentary production techniques and process from research and planning through postproduction along with a survey of the genre, its history, and its screen grammar. This course is co-listed with COMM 5560. Prerequisite(s): COMM 3450. Fall.

COMM 4565 - Corporate and Freelance Production (3)

Students will gain experience working on client-based productions, from preproduction planning to shooting, editing, and distribution. The class will train students for both corporate and freelance production jobs. This course is co-listed with COMM 5565. Prerequisite(s): COMM 2411 and COMM 2412. Fall, Spring.

COMM 4570 - History of International Film (3)

An introduction to international film history, focusing in particular on certain movements and themes made important for technological, aesthetic, social and economic reasons. This course is co-listed with COMM 5570. Prerequisite(s): COMM 3000. Spring.

COMM 4571 - Methods of Teaching Journalism (3)

Practical methods in the teaching of journalism. Prerequisite(s): admission to the journalism minor, Bachelor of Science in Education. Summer.

COMM 4700 - Dale Carnegie: High Impact Presentations (1)

Enables students to plan and organize professional presentations; create and maintain a positive impression; and communicate ideas with clarity and force.

COMM 4780 - Communication Leadership and Practice in Organization (3)

A consideration of theories and principles of communication structures and systems within organizations. This course is co-listed with COMM 5780. Spring.

COMM 4781 - Strategic Communication Audits (3)

The assessment and measurement of human interaction within professional settings. This course is co-listed with COMM 5781. Fall.

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. This course is co-listed with COMM 5783. Prerequisite(s): Consent of instructor. Spring.

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.* Prerequisite(s): COMM 4780 with a grade of C or better. Fall, Spring.

COMM 4790 - Senior Capstone (1)

Prepares the student for the senior assessment public Showcase that provides evidence of the student's achievement in the Communication Studies program. All students must 1) be accepted into Communication, and 2) apply for graduation before they will be allowed to enroll in the course. Fall, Spring.

CIS 1600 - Business Information Management GE (3)

Students will learn how to acquire information based on the organizational needs, including how to convert data into information, how to perform queries, and how to store and present information in an appropriate format which facilitates informed decision making. Special emphasis will be placed on using business productivity tools such as Microsoft Office to achieve course objectives.

UCM General Education Competency: This course fulfills Foundational Skills Competency #5 in the Managing Information area of the UCM General Education Program.

CIS 1612 - Ethics in Information Technology GE (3)

Introduces students to the wide variety of issues and controversies related to cyber ethics. Emphasis will be placed on global and cross cultural issues and frameworks. Students will analyze how various actions related to Information Technology affect individuals, organizations, and society. Students will develop their critical thinking skills (by analyzing updated cases in real business scenarios and in "what would you do" scenarios), make decisions made on ethical principles, and develop their communication skills vial oral presentations and written reports.

UCM General Education Competency: This course fulfills Knowledge Competency #9 and Foundational Skills Competency #4 in the Engagement area of the UCM General Education Program.

CIS 1625 - Programming With Visual C# (3)

Introduces fundamental concepts and implementations of programming using Visual C#. It focuses on Windows form applications covering aspects such as development of user interface, control structures, and

data processing. The course also covers the object-oriented aspects of programming such as writing classes, and using objects. 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 2625 - Web Application Architecture (3)

A survey of client-side and server-side web technologies and how they work together to deliver dynamic web content. Students will create a web site to address an organizational need using integrated technologies. Prerequisite(s): CIS 1625.

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(s): CIS 1600.

CIS 3625 - Business Application Development with Java (3)

Designed to build upon object-oriented concepts and the principles underlying the design and implementation of organizational information systems using the Java programming language. Java is widely used to develop systems and application based 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 projects. The course adopts a hands-on approach and entails extensive programming. Prerequisite(s): CIS 2625. An additional fee is associated with this course.

CIS 3630 - Management Information Systems (3)

Focuses 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. Prerequisite(s): CIS 1600. An additional fee is associated with this course.

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(s): CIS 1600. An additional fee is associated with this course.

CIS 3660 - Analysis and Design of Computer Information Systems (3)

This course covers concepts and techniques of information systems analysis and design with a focus on the object-oriented methodologies and tools. Unified Modeling Language (UML) is used to create analysis and design models of information systems to meet organizational needs, including IT security. Students will learn and practice the managerial aspects of analysis and design such as IT project management, elicitation and

documentation of system requirements and change management. Prerequisite(s): CIS 1625. 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(s): CIS 2665. An additional fee is associated with this course.

CIS 3670 - User Experience 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. Prerequisite(s): CIS 2625 and CIS 3660. An additional fee is associated with this course.

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. Corequisite(s): special sections of MGT 3315, MKT 3405 and CIS 3630. An additional fee is associated with this course.

CIS 3690 - Internship in Big Data and Business Analytics (3-9)

Opportunity for students to gain theoretical knowledge and practical application within a particular field of specialization. May not be taken in the last semester of the senior year. Enrollment can be for 3 to 9 semester hours. *May be repeated for a maximum of 9 semester hours.* Prerequisite(s): Admission to B.S.B.A program; 60 semester hours and overall GPA of 2.50 or above or permission of Internship Program Director. An additional fee is associated with this course.

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 in the last semester of the senior year. Enrollment can be for 3 to 9 semester hours. *May be repeated for a maximum of 9 semester hours.* Prerequisite(s): 60 semester hours and overall GPA of 2.50 or above or permission of intern program Director. An additional fee is associated with this course.

CIS 4610 - Special Projects (1-3)

Special projects offerings in computer information systems. Part of the course requirements can be met by working on company projects approved by the adviser. This course is co-listed with CIS 5710. *May be repeated for a maximum of 6 semester hours.* Prerequisite(s): consent of instructor and Admission to the B.S.B.A. program. An additional fee is associated with this course.

CIS 4625 - Information Security Management (3)

The course will identify and prioritize threats to information assets, define security strategy, present architecture plan to respond intruders, describe legal implications, address privacy issues and present a disaster recovery plan after an incident. Prerequisite(s): CIS 2665. An additional fee is associated with this course.

CIS 4635 - Seminar in Business Computer Applications (2-3)

Business applications and programming techniques will be studied and prepared for presentation and discussion. Prerequisite(s): At least one programming course. An additional fee is associated with this course.

CIS 4640 - Web Application Development (3)

Examination and implementation of advanced client-side and server-side frameworks with other web technologies in support of business problem solutions. Students will create a comprehensive web site to address an organizational need using integrated technologies. Prerequisite(s): CIS 2625. An additional fee is associated with this course.

CIS 4645 - Network and System Security (3)

Course provides an in-depth knowledge of securing enterprise networks. Topics include network traffic, intrusion signatures, security policy, VPN, ID, A&D firewalls, and risk analysis. Prerequisite(s): CIS 2665. An additional fee is associated with this course.

CIS 4650 - Big Data Architecture (3)

Planning, design and implementation of network architecture needed to support Big Data projects, including clustering, virtualization, and software defined networks for big data infrastructure. This course is co-listed with CIS 5750. Prerequisite(s): CIS 2665. An additional fee is associated with this course.

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. This course is co-listed with CIS 5755. Prerequisite(s): CIS 3660 and Admission to the B.S.B.A. program. An additional fee is associated with this course.

CIS 4660 - Advanced Applications Development Using JAVA (3)

Develop object-oriented web-based Graphical User Interface (GUI) applications for business using JAVA as the programming language. This course is co-listed with CIS 5760. Prerequisite(s): CIS 3625 with a grade of C or better, CIS 3650 and Admission to the B.S.B.A. program. 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. This course is co-listed with CIS 5765. Prerequisite(s): CIS 2665 and Admission to the B.S.B.A. program. An additional fee is associated with this course.

CIS 4670 - Applications Development Using Visual C# (3)

The course covers advanced concepts and techniques of programming in Visual C#. 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 with a focus on the development of applications for business problems. Prerequisite(s): CIS 3625, CIS 2665, and CIS 3650 and Admission to the B.S.B.A. program. An additional fee is associated with this course.

CIS 4675 - Mobile Business Application Development (3)

Major emphasis will be in developing business applications for deployment on smart phones, tablets and other mobile devices. Responsive web-based application development will extend a basic knowledge of web technologies to include applicable frameworks. Introductory mobile application development will be explored using a code-one-deploy-all environment. Testing will be conducted using iPads/Tablets as well as phone emulators. Topics in this course include user interaction design issues specific to mobile devices, data issues for mobile devices, and location-aware and other context-aware services. Prerequisite(s): CIS 2625 and CIS 3650. An additional fee is associated with this course.

CIS 4678 - Fundamentals of Enterprise Resource Planning (3)

This course introduces students to fundamental concepts in Enterprise Resource Planning enabling students from any discipline to develop a solid foundation of business processes in IT enabled organizations. Students will gain access to SAP software and data to develop the required skills to configure and manage basic organizational processes in an ERP system, integrate data and transactions in business processes such as sales, production and procurement and evaluate organizational opportunities and challenges in the design and implementation of ERP systems. Prerequisite(s): CIS 1625 and CIS 3630. An additional fee is associated with this course. Fall, Spring.

CIS 4680 - Data Resource Management (3)

Designing and administering data resources with consideration of advanced database concepts, database programming, administration and security, transaction management, data mining, data warehousing, and multimedia data processing. This course is co-listed with CIS 5780. Prerequisite(s): CIS 3650 or admission to the MS in CIS & IT or admission to MBA (Information Systems area or Data Analytics and Business Intelligence area). An additional fee is associated with this course.

CIS 4681 - Big Data for the Enterprise (3)

The student will gain knowledge and skills required to address Big Data problems in business. These skills include Big Data management, processing, and analytics as well as technical hands-on skills. The student will have experience processing Big Data for applications such as sentiment analysis of user-generated content on the web. Prerequisite(s): CIS 4680 or concurrently. An additional fee is associated with this course.

CIS 4683 - Big Data Visualization & Reporting (3)

Focuses on big data visualization and reporting tools and skills for business. Major topics to cover include basic statistical modeling theory and methods, advanced visualization techniques such as text analysis, dashboard reports design and mechanics, scorecard management, spatial data model and graphics, and real-time streaming Big Data visualization. Interesting business use cases will be presented and analyzed in the class. Prerequisite(s): CIS 4681. 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. Prerequisite(s): CIS 3665 and Admission to the B.S.B.A. program. An additional fee is associated with this course.

CIS 4688 - ERP Configuration and Implementation (3)

This course provides students an opportunity to use SAP software to gain hands-on experience in configuring an ERP system. Students will learn to configure business rules governing processes, manage Business Process Integration (BPI) activities and, conduct Business-to-Business (B2B) transactions in complex organizational structures. Students will also compete in groups to manage the fictitious organizations configured by them thereby gaining an in-depth understanding of the impact of ERP systems on organizational performance. Prerequisite(s): CIS 4678. An additional fee is associated with this course. Fall, Spring.

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. Prerequisite(s): (CIS 3625, CIS 3650, and CIS 4685 or concurrently) or (CIS 3670, CIS 4680, and (CIS 4660 or CIS 4670)) and Admission to the B.S.B.A. program. An additional fee is associated with this course.

CS 1000 - Computers and Modern Society GE (3)

The technical, social, legal, ethical, and economic implications of computing and the controversies they raise from a computer scientist's perspective.

UCM General Education Competency: This course fulfills Knowledge Competency #9 and Foundational Skills Competency #4 in the Engagement area of the UCM General Education Program.

CS 1010 - Introduction to Computer Science GE (3)

Introduction to the basic concepts of computer science. Topics include basic computer organization and systems, data representation, algorithms, Boolean logic, gates, system software, computer networks, information security, encryption, simulation, and modeling.

UCM General Education Competency: This course fulfills Knowledge Competency #7 and reinforces Foundational Skills Competency #3 in the METS (Mathematics, Engineering, Technology, and Science) area of the UCM General Education Program.

CS 1020 - Introduction to Biomedical Informatics GE (3)

Intended for all students interested in a better understanding and use of personal and publicly available healthcare information.

UCM General Education Competency: This course fulfills Foundational Skills Competency #5 in the Managing Information area of the UCM General Education Program.

CS 1030 - Introduction to Computer Programming GE (3)

Introduction to the basic concepts of computer programming. Topics include basic computer organization and systems, data representation, algorithms, selections, loops, functions, classes, objects, elementary programming, and applications.

UCM General Education Competency: This course fulfills Knowledge Competency #7 and reinforces Foundational Skills Competency #3 in the METS (Mathematics, Engineering, Technology, and Science) area of the UCM General Education Program.

CS 1040 - Orientation to Computer Science and Software Engineering (1)

This course is designed to help the first-year student to actively explore critical thinking, develop a sense of belonging to UCM and the School of Computer Science and Mathematics, develop self-awareness and responsibility, and gain an increased interest in the Computer Science and Software Engineering programs.

An additional fee is associated with this course.

CS 1100 - Computer Programming I (3)

An introduction to computer programming in the structured programming paradigm using a modern high-level programming language. Topics include foundational programming concepts, data types, variables, operators, selections, loops, methods, and arrays.

An additional fee is associated with this course. Fall, Spring.

CS 1110 - Computer Programming II (3)

A continuation of CS 1100. Topics include object-oriented software design methodologies such as classes, objects, strings and text I/O, inheritance, polymorphism, interfaces, GUI basics, graphics, and event-driven programming. Prerequisite(s): CS 1100. An additional fee is associated with this course. Fall, Spring.

CS 1810 - Video Game Theory and Analysis (3)

An introduction to the interdisciplinary academic study of video games. This course focuses on learning the foundation of games, playing, discussing, and analyzing games in order to introduce the students to the emerging field of game studies, as well as to provide the opportunity for the students to better understand games' influence on and reflections of society. Topics include game historical elements, platforms, player modes, goals, genres, player elements, company roles and responsibilities, production and management, marketing and maintenance, and various cutting-edge case studies. An additional fee is associated with this course.

CS 2200 - Introduction to Computer Organization (3)

Logical structure of digital computers, representation of information, addressing mechanisms, storage and peripheral hardware, and assembly programming. Prerequisite(s): CS 1110. An additional fee is associated with this course.

CS 2300 - Data Structures (3)

An introduction to fundamental data representations and abstract data types. Lists, arrays, collections, trees, heaps, and hash maps are discussed. Recursion, dynamic storage allocation, and sorting are investigated.

Prerequisite(s): CS 1110. An additional fee is associated with this course.

CS 2400 - Discrete Structures (3)

Basic logic, sets and relations, proof techniques, induction and recursion, principles of counting, permutations and combinations, discrete probability, graphs and trees. Prerequisite(s): (CS 1030 or CS 1100) and (MATH 1111 or MATH 1131 or MATH 1150 or MATH 1151 or ACST 1300). An additional fee is associated with this course.

CS 2820 - Game Programming (3)

Covers virtually all aspects of game programming, while still maintaining the depth necessary to truly understand and appreciate state-of-the-art processes. Topics include game programming languages, game architecture, mathematical concepts, collision detection, game physics, graphics, animation, artificial intelligence, audio programming, networking, as well as audio visual design and production including 3D modeling, texturing, lighting, etc. Prerequisite(s): CS 1110. An additional fee is associated with this course.

CS 3100 - Programming Languages (3)

Discussing the design issues of programming language constructs, formal methods of describing the syntax and semantics, implementation techniques, lexical and syntax analysis. Prerequisite(s): CS 2300. An additional fee is associated with this course.

CS 3110 - Applications Programming in C# and .NET (3)

An introduction to the C# programming language and the Microsoft .NET framework. Emphasis on hands-on experience in software development. Topics include Visual Studio, C# programming language, debugging, LINQ, Windows Forms, WPF, and ASP.NET.

Prerequisite(s): CS 1110. An additional fee is associated with this course.

CS 3120 - Client Side Web Programming (3)

Introduction to client-side web programming: HTML5, cascading style sheets (CSS3), JavaScript, graphics, web browsers, and Ajax-enabled web applications. Prerequisite(s): CS 1030 or CS 1100. An additional fee is associated with this course. Fall.

CS 3200 - Computer Organization and Architecture (3)

Logical structure of digital computers, representation of information, addressing mechanisms, and assembly programming. Design alternatives in computer architecture including instruction set architectures, memory subsystem organization, datapath and control of a processor, and pipelining. Prerequisite(s): CS 1110. An additional fee is associated with this course.

CS 3500 - C and UNIX Environment (3)

An introduction of C and UNIX system programming. Topics include use of pointers, dynamic memory allocation, input and output, files and directories, and fundamentals of UNIX system programming. Prerequisite(s): CS 1110. An additional fee is associated with this course.

CS 3600 - Introduction to Data Visualization (3)

Various visualization techniques to expose underlying information and tools for visualization of data. Concepts and methods are illustrated with applications. Prerequisite(s): CS 1100, ACST 1300, ACST 2310, or ACST 3311. An additional fee is associated with this course.

CS 3650 - Fundamentals of Bioinformatics I (3)

Introduction to fundamentals of bioinformatics algorithms, methods and models for sequence alignment and search. Computational tools for collecting, storing, aligning, searching sequences, and discovering evolutionary relationships. Prerequisite(s): CS 1110 and BIOL 2512. An additional fee is associated with this course.

CS 3800 - Applications Development with VB.NET (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(s): CS 1100. An additional fee is associated with this course.

CS 3810 - Introduction to Game Design (3)

An introductory overview of the game design process, with an emphasis on how game developers create compelling content which includes story and character development, gameplay, level, interface, audio design, and simple game prototype development. Prerequisite(s): CS 1100 or CS 1810. An additional fee is associated with this course.

CS 3840 - Computer Networking (3)

General principles and concepts of computer networks with emphasis on four layers of the network protocol stack such as application, transport, network, and data link layers. Topics include the structure of the Internet, client-server/p2p models and related protocols, TCP/IP, packet-switching, routing algorithms/protocols, multiple access protocols, and LAN technologies. Prerequisite(s): CS 2400. An additional fee is associated with this course.

CS 4000 - Special Problems in Computer Science (1-3)

Individual reading and research on some topics not included in the regular offerings of the school. *May be repeated for a maximum of 6 semester hours.* Prerequisite(s): CS 2300. An additional fee is associated with this course.

CS 4020 - Internship (1-3)

Opportunity for students to gain knowledge in areas of computer science, cybersecurity or software engineering, both theoretical and applied, that would not normally be included as part of the school's curriculum. Internship contract must be completed prior to beginning work/learning experience. *May be repeated for a maximum of 6 semester hours. A maximum of 6 semester hours may be applied to any one degree.* Prerequisite(s): Consent of Program Coordinator. An additional fee is associated with this course.

CS 4110 - Mobile Applications Programming with Android (3)

A course on design and programming of applications for Android mobile devices. Topics include: application lifecycle, MVC design, Android layouts, application design, memory usage and threads, audio and video,

database management, location and maps. Prerequisite(s): CS 2300. An additional fee is associated with this course.

CS 4120 - Advanced Applications Programming in Java (3)

A continued exploration of the Java programming language with an emphasis in utilizing more advanced features of the language in software development. Topics include generics, multithreading, networking, JavaFX, databases, servlets, and JSP. This course is co-listed with CS 5220. Prerequisite(s): CS 2300. An additional fee is associated with this course.

CS 4130 - Server Side Web Programming (3)

Introduction to server-side web programming: PHP and ASP.NET. The student will learn to develop dynamic web sites and interactive web application with databases. Prerequisite(s): CS 3120. An additional fee is associated with this course.

CS 4150 - Object-Oriented Programming and Data Structures (3)

Fast-paced coverage of object-oriented programming in Java and data structures. Not available to those with credit in CS 1100, CS 1110 or CS 2300. An additional fee is associated with this course.

CS 4300 - Algorithm Design and Analysis (3)

Techniques needed to analyze and design algorithms are discussed. It covers a large number of classical algorithms and their complexity. Topics such as sorting, graph algorithms, and NP-completeness are discussed.

Prerequisite(s): CS 2300 and CS 2400. An additional fee is associated with this course.

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. Prerequisite(s): CS 2300 and CS 3500. An additional fee is associated with this course.

CS 4510 - Introduction to Distributed Systems (3)

A top-down approach addressing the issues to be resolved in the design of distributed systems. Concepts and existing approaches are described using a variety of methods including case studies, abstract models, algorithms and implementation exercises. This course is co-listed with CS 5511. Prerequisite(s): CS 3500. An additional fee is associated with this course.

CS 4600 - Database Theory and Applications (3)

An introduction to database theory and applications. Topics include: E-R model, relational database design, normalization theory, SQL, application design and development, security, and database administration. A significant application-oriented project will be required. This course is co-listed with CS 5200. Prerequisite(s): (CS 2400 or MATH 2410) and CS 2300. An additional fee is associated with this course.

CS 4610 - Introduction to Cloud Computing (3)

An introduction and broad view of cloud computing and its applications. Topics include Datacenter architectures, the MapReduce programming model, Hadoop, cloud algorithms, commercial cloud computing platforms such as Amazon EC2 and Google App Engine, and higher-level programming such as Hive and Pig. This course is co-listed with CS 5610. Prerequisite(s): CS 2300. An additional fee is associated with this course.

CS 4620 - Big Data Analytics (3)

An introduction to big data analytics. Topics include map-reduce framework, statistical analysis, locality sensitive hashing, classification, clustering, link analysis, recommendation systems with social context, and Google file systems / Hadoop. Prerequisite(s): CS 2300. An additional fee is associated with this course.

CS 4630 - Data Mining (3)

Covers processes involved in knowledge discovery, including data selection, cleaning, coding, using statistical and machine learning techniques, and visualization of generated structures. This course is co-listed with CS 5630. Prerequisite(s): CS 2300. An additional fee is associated with this course.

CS 4650 - Fundamentals of Bioinformatics II (3)

Advanced computational methods and tools for predicting phylogenetic, structure, gene and regulatory mechanisms. Computational analysis of microarrays. Prerequisite(s): CS 3650 and BIOL 3511. An additional fee is associated with this course.

CS 4700 - Artificial Intelligence (3)

This course provides an introduction to artificial intelligence (AI) and its latest development. Topics include genetic algorithms, ant colony optimization, computer vision, natural language processing, neural networks, reinforcement learning, and deep learning. This course is co-listed with CS 5700. Prerequisite(s): (CS 2400 or MATH 2410) and CS 2300 and Junior status. An additional fee is associated with this course.

CS 4710 - Introduction to Machine Learning (3)

Provides opportunities to learn various machine learning techniques to model data for classification and prediction. Concepts and methods are illustrated with real-world applications. This course is co-listed with CS 5710 Prerequisite(s): CS 1110 or MATH 1152; and Junior status. An additional fee is associated with this course.

CS 4810 - 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. This course is co-listed with CS 5810. Prerequisite(s): CS 2300 and CS 3500. An additional fee is associated with this course.

CS 4830 - Game Development (3)

An introduction to higher level technical aspects of computer game development. Topics include game development framework, game programming, design and create games using popular game engines and tools. Prerequisite(s): CS 2300. An additional fee is associated with this course.

CS 4920 - Senior Project (3)

Semester-long senior capstone project in which teams design, plan, implement, test, and deploy a software development project. Selected topics in software development, group dynamics, project management, and ethics and professional responsibility. Includes a formal presentation to the Computer Science faculty. Prerequisite(s): CS 4600 and SE 3910. An additional fee is associated with this course.

CMGT 1300 - Introduction to Construction Management (3: 2 lecture, 1 lab)

General survey of the organization and functioning of the construction industry: legal, ethical, business, and management aspects. An additional fee is associated with this course.

CMGT 1301 - Seminar in Construction Management (1)

Forum to provide students an opportunity to learn about current events in the construction industry using guest speakers, open discussion, service projects and field trips. An additional fee is associated with this course.

CMGT 2020 - Statics (3)

An introduction to the basic concepts of strengths of materials and statics as they relate to the design and analysis of materials, machines, and structures. Prerequisite(s): MATH 1111 and MATH 1112 each with a C or better. An additional fee is associated with this course.

CMGT 2301 - Intermediate Seminar in Construction Management (1)

Forum to provide students an opportunity to learn about current events in the construction industry using guest speakers, open discussion, service projects and field trips. Students will participate in shaping the on campus discussion of contemporary issues related to the construction industry. Prerequisite(s): CMGT 1301 An additional fee is associated with this course.

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. An additional fee is associated with this course.

CMGT 2325 - Project Cost Estimating (3)

A quantitative take-off and survey of materials and productivity standards for industrial projects. Prerequisite(s): CMGT 2310 or CADD 1110 or CADD 1111. An additional fee is associated with this course.

CMGT 2340 - Surveying and Construction Layout (3: 2 lecture; 1 lab)

Theory and practice of plane, topographic, and construction surveying and layout including care and use of instruments, note taking and computations. Prerequisite(s): MATH 1112. An additional fee is associated with this course.

CMGT 2350 - Construction Materials (3: 2 lecture, 1 lab)

The purpose of this course is to provide construction management students an opportunity to become familiar with the properties of aggregates, cement, concrete, asphalt, steel, masonry, and timber. The knowledge and understanding of these properties will help them design and build safe products and structures. Students will also get an in-depth look at Portland Cement Concrete (PCC) mixture designs and asphalt concrete (AC) mixture designs. They will be able to follow standard procedures in determining properties of materials and will be able to interpret the results of tests conducted in the laboratory. During the concrete laboratory portion of the class students will be able to obtain their American Concrete Institute (ACI) Grade I certification. Prerequisite(s): MATH 1111 with a C or better and CMGT 1300 with a C or better or ENGT 1500 with a C or better. An additional fee is associated with this course.

CMGT 3010 - Applied Construction Practices GE (3: 2 lecture; 1 lab)

Theory and practices of residential and light construction industry, methods, and materials. Hands-on laboratory activities with hand and power tool safety and effective use and jobsite safety support theory content. An additional fee is associated with this course.

UCM General Education Competency: This course fulfills Knowledge Competency #7 and reinforces Foundational Skills Competency #3 in the METS (Mathematics, Engineering, Technology, and Science) area of the UCM General Education Program.

CMGT 3020 - Applied Strength of Materials (3)

Selection and application of sizes, shapes, and materials required for the construction of a member for a machine or structure in order to resist an applied load in a safe and economical manner. Prerequisite(s): CMGT 2020 with a C or better. An additional fee is associated with this course.

CMGT 3301 - Advanced Seminar in Construction Management (1)

Forum to provide students an opportunity to learn about current events in the construction industry using guest speakers, open discussion, service projects and field trips. Students will engage upcoming students in the construction program by sharing internship experiences. Prerequisite(s): CMGT 2301, SOT 3022. An additional fee is associated with this course.

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. Prerequisite(s): CMGT 1300 and CMGT 2310. An additional fee is associated with this course.

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(s): CMGT 2310, or consent of instructor. An additional fee is associated with this course.

CMGT 3350 - Building Structures: Methods & Materials (3: 2 lecture, 1 lab)

The types and processes of building structures including the materials and methods as applied to the structures: wood, steel, and concrete. Prerequisite(s): ENGT 2040, CMGT 2310, and CMGT 2340. An additional fee is associated with this course.

CMGT 3355 - Construction Planning and Scheduling (3)

Theory and use of construction scheduling to control the acquisition, movement, storage, and utilization of workers and/or material with emphasis given to the Critical Path Method (CPM). Prerequisite(s): CMGT 2325. An additional fee is associated with this course.

CMGT 4310 - Construction Safety (3)

Construction safety and health conditions on the job as they relate to workers, supervisors, inspectors, and the public. This course is co-listed with CMGT 5310. Prerequisite(s): CMGT 2310 or junior standing. An additional fee is associated with this course.

CMGT 4325 - Advanced Estimating and Cost Analysis (3: 2 lecture, 1 lab)

An advanced course in construction cost estimating utilizing the computer and associated professional software to assist the estimator. This course is co-listed with CMGT 5325. Prerequisite(s): CMGT 2310 and CMGT 2325. An additional fee is associated with this course.

CMGT 4330 - Mechanical Systems for Buildings (3)

Mechanical systems integrated with buildings and other equipment. This course is co-listed with CMGT 5330. Prerequisite(s): CMGT 2310 or junior standing. An additional fee is associated with this course.

This is a sustainability course.

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. This course is co-listed with CMGT 5340. An additional fee is associated with this course.

CMGT 4355 - Computer-Based Project Control (3: 2 lecture, 1 lab)

An advanced course in construction project scheduling utilizing the computer and associated professional software to assist the project scheduler. This course is co-listed with CMGT 5355. Prerequisite(s): CMGT 3355. An additional fee is associated with this course.

CMGT 4380 - Heavy Construction: Methods and Materials (3)

Explores heavy construction methods and materials. Included are the concepts of site investigation, heavy construction means and methods, heavy construction material characteristics and costs, heavy equipment types and uses, and equipment costs, production rates and unit cost of production. This course is co-listed with CMGT 5380. Prerequisite(s): CMGT 2310 and MATH 1111. An additional fee is associated with this course.

CMGT 4400 - Construction Operations (3)

A detailed study of the knowledge, processes and operational procedures involved in a commercial construction project. Prerequisite(s): CMGT 2310, CMGT 2325, CMGT 3320 and CMGT 3355 and senior standing. An additional fee is associated with this course.

CJ 1000 - Introduction to Criminal Justice GE (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. Fall, Spring. Sometimes offered online.

UCM General Education Competency: This course fulfills Knowledge Competency #8 and reinforces Foundational Skills Competency #4 in the Social & Behavioral Sciences area of the UCM General Education Program.

CJ 1605 - Orientation to the Criminal Justice Major (1)

Course gives student opportunity to become acquainted with academic tools used and techniques for success in major; to be taken immediately upon declaration of major. Prerequisite(s): major in Criminal Justice.

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(s): CJ 1000 with a grade of C or better.

CJ 2010 - Ethics in Criminal Justice (3)

Provides an overview of the major moral philosophies and allows students to understand how ethical theories may be applied to ongoing problems and issues. It also reviews laws and policies that exist, as well as rules of conduct and protocol, and it identifies the legal and extralegal factors that influence these laws, policies, and rules. By evaluating critical issues in law enforcement, courts, and corrections, students will be given the opportunity to better understand the complexities involved with decision-making by criminal justice practitioners/professionals. Prerequisite(s): CJ 1000 with a grade of C or better.

CJ 2101 - Police Organization and Management (3)

The principles and practices common to the effective management of American law enforcement agencies. Prerequisite(s): CJ 1000 with a grade of C or better.

CJ 2300 - Criminal Law and Procedure (3)

An examination of the major legal principles concerning the definition of crimes and defenses and the legal parameters of criminal investigation and prosecution. Prerequisite(s): CJ 1000 with a grade of C or better.

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 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. Fall, Spring.

This is a sustainability course.

CJ 3005 - Introduction to Firearms Proficiency (3)

Introduction to firearms and their implications within the field of criminal justice, with lab component to provide firsthand firearms experience. Prerequisite(s): Criminal Justice major or minor or consent of school. An additional fee is associated with this course. Fall, Spring.

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(s): CJ 1000 with a grade of C or better. Fall, Spring. Sometimes offered online.

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(s): CJ 1000 with a grade of C or better. Fall, Spring. Sometimes offered online.

CJ 3020 - Comparative Justice Systems (3)

An examination of comparative crime rates among nations and the world's major models of justice systems.

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(s): CJ 3006 with a grade of C or better.

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. Prerequisite(s): CJ 2300 with a grade of C or better. Spring.

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. Fall. Summer.

CJ 3405 - Homicide Investigation (3)

Study of homicide investigation including tactics, procedures, problems, forensic techniques, and legal issues. Recommended that students complete CJ 3400 prior to taking this course. Spring.

CJ 3450 - Computer Crime Investigation (3)

Covers the world of computer forensics and computer crime. This includes the seizing and handling of digital evidence, investigating Internet facilitated offenses, victimology, criminal profiling and legal considerations. Students will complete a variety of hands-on projects throughout the course. Spring.

CJ 3600 - Introduction to Criminal Justice Research and Statistics (3)

An introductory examination of the research methods and statistics with application most commonly utilized in criminological and criminal justice research. Fall, Spring. Sometimes offered online.

CJ 3605 - Junior Seminar in Criminal Justice (1)

Junior Seminar is designed to prepare students for a successful transition into a criminal justice career or transition to graduate school. Prerequisite(s): CJ 1605 with a grade of C or better.

CJ 4000 - Special Projects in Criminal Justice Administration (1-3)

Individual or group study of problems in special areas of interest. This course is co-listed with CJ 5001. *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(s): CJ 3006 with a grade of C or better.

CJ 4010 - Criminal Justice International Study (3)

Credit granted for study in a school approved program or study tour in a foreign country. This course is co-listed with CJ 5010. *May be repeated for a maximum of 9 semester hours.* Prerequisite(s): consent.

CJ 4020 - Crime, Justice and Social Diversity (3)

Examines how issues of crime and justice are played out in the context of a diverse society. Diverse populations include those of income, race, ethnicity, gender, sexual identity and preference, age, immigration, and other disenfranchised elements of society. The course will focus on four major issues: 1) how diverse populations are socially constructed in American society; 2) how the law affects and has affected diverse populations in American society; 3) the differential response of the criminal justice system to various populations; and 4) how victimization impacts diverse groups. The course will emphasize historical patterns in conjunction with current critical issues regarding diversity and the criminal justice system. Prerequisite(s): CJ 1000 with a grade of C or better.

CJ 4060 - Victimology (3)

An examination of the many facets of crime victimization including the victim, the offender, society-at-large, and the dynamics of the victim-offender relationship. Prerequisite(s): CJ 1000 with a grade of C or better.

CJ 4070 - Drug Policy (3)

An examination of policies on the criminalization of drugs, ranging from their possession to their distribution, including issues of legalization and the societal and political impact of the war on drugs. Prerequisite(s): CJ 1000 with a grade of C or better.

CJ 4080 - Criminal Justice and the Media (3)

An examination of media presentations of criminal justice issues and their impact on criminal justice policy and public opinion. Prerequisite(s): CJ 1000 with a grade of C or better.

CJ 4090 - Miscarriages of Justice (3)

An examination of the nature of wrongful convictions and miscarriages of justice in the criminal justice system. This course is co-listed with CJ 5090. Prerequisite(s): CJ 1000 with a grade of C or better.

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.

CJ 4302 - Evidence and Courtroom Procedure (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(s): CJ 2300.

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(s): CJ 1000 with a grade of C or better.

CJ 4390 - The Death Penalty (3)

An examination of the jurisprudence, history and current issues about the death penalty.

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. This course is co-listed with CJ 5403. Spring.

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. This course is co-listed with CJ 5420. Fall, Spring. Sometimes offered online.

CJ 4433 - Crime Mapping (3)

An examination of the theoretical and practical aspects of crime mapping and the temporal and spatial analysis of crime.

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. This course is co-listed with CJ 5444. Taught only as an online course.

CJ 4488 - Homeland Security (3)

Introduction to homeland security with focus on risks and hazards confronting the U.S., along with varied programs and agencies responsible for responding to these threats. This course is co-listed with CJ 5488. Prerequisite(s): CJ 1000 with a grade of C or better.

CJ 4503 - Dynamics of Criminal Behavior (3)

An investigation of the perspectives of causation of norm-violating behavior. Emphasis will be placed on rule violating behaviors as defined by the criminal law and on potential policy implications for the criminal justice system. Prerequisite(s): CJ 1000 with a grade of C or better.

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(s): consent.

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(s): consent.

CJ 4605 - Senior Seminar in Criminal Justice (1)

Capstone course for a final opportunity to assess a student's general performance in the criminal justice major. Prerequisite(s): CJ 3605 with a grade of C or better and senior major in Criminal Justice.

CJ 4701 - Juvenile Law & Policy (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 an examination of how the international society reacts to juvenile misbehavior and various juvenile justice models.

CJ 4704 - Dynamics of Delinquent Behavior (3)

Students will analyze multiple explanations on why youth commit crime, to include the various formal theories of juvenile delinquency. The life course of juvenile crime will also be discussed in detail. This course additionally examines the roles that schools, families, the media and the juvenile justice system play in juvenile delinquency. The course also explores deviance and youth culture, which includes an examination of current youth groups in society. Such groups discussed may include skinheads, punk rockers, hip hoppers, goth, heavy metal, gamers, gangsters, hackers and grrrls.

CJ 4920 - Women and Crime (3)

An exploration of the relationship between women and crime through three main components: (1) women and offending, (2) women and victimization, (3) responses to both. This course is co-listed with CJ 5920. Prerequisite(s): CJ 1000 with a grade of C or better.

CYBR 1040 - Orientation to Cybersecurity (1)

This course is designed to help the first-year student to actively explore critical thinking, develop a sense of belonging to UCM and the School of Computer Science and Mathematics, develop self-awareness and responsibility, and gain an increased interest in the Cybersecurity program. An additional fee is associated with this course.

CYBR 1500 - Command Line Environments (3)

Introduction to Linux command line and Windows command prompt. Writing Bash scripts and Batch files to automate command-line based tasks. An additional fee is associated with this course.

CYBR 1800 - Introduction to Cybersecurity GE (3)

Introduction to common issues of cyber security from end-user perspectives. Topics include technical and social constructions of cyber space, malicious content, Email security, social media related risk, secure online activity, protection of privacy, cultural and ethical dimensions of cyber security.

UCM General Education Competency: This course fulfills Knowledge Competency #9 and Foundational Skills Competency #4 in the Engagement area of the UCM General Education Program.

CYBR 2500 - Computer Systems Administration (3)

Introduction to Windows and Linux system administration. Students will learn basics of server systems and system administration tasks, including computer networking, file system management, user/group management, LDAP/Active Directory, and security of systems. Student's hands-on skills will be emphasized. Prerequisite(s): CYBR 1500. An additional fee is associated with this course.

CYBR 3130 - Secure Programming (3)

Introduction to secure and reliable programming practices. Topics include security loophole identification, conversion of noncompliant code to compliant code, and best defensive programming practices. Prerequisite(s): CS 1030 or CS 1100. An additional fee is associated with this course.

CYBR 3300 - Introduction to Cryptography (3)

Cryptographic algorithms and their applications. Topics include block ciphers, message authentication, key negotiation, key management, and attack models. Prerequisite(s): CS 2400. An additional fee is associated with this course.

CYBR 3510 - Systems Security (3)

Introduction to security of database systems and operating systems. Topics include: SQL, database access control, database integrity control, database encryption, database backup, processes, and virtual memory, Windows and Linux security architecture, iOS and Android security architecture, and OS virtualization security. Prerequisite(s): CYBR 2500. An additional fee is associated with this course.

CYBR 3520 - Introduction to Cyber-Physical Systems Security (3)

Introduction to securing systems that interact with the physical world, including industrial control systems, distributed control systems/SCADA, critical infrastructure, and the Internet of Things. Includes hands-on labs and discussion of policy and governance, ethics, emerging standards, and best practices. Prerequisite(s): CYBR 1800 and CS 1030 or CS 1100. An additional fee is associated with this course.

CYBR 3820 - Usable Privacy and Security (3)

Focuses on the underlying human factors of information security and highlights the tradeoff between usability and security. Upon successful completion of the course, students will be able to understand the principles of designing usable security and privacy systems. Topics include usability for security, introduction to HCI design methodologies, passwords, secondary authentication, privacy tools, security warnings, smartphone apps, privacy policies and notices, usable encryption, browser privacy and security, SSL and PKIs, social networks and privacy, rust and mental models. Prerequisite(s): CYBR 1800 and ACST 1300 or ACST 2310 . An additional fee is associated with this course.

CYBR 3830 - Economics of Cybersecurity (3)

Focuses on the underlying economic factors of cybersecurity and highlights the incidents of security failures that happen due to misaligned incentives rather than to the lack of suitable technical protection mechanisms. Topics include economic perspective of cybersecurity, cultural perspective of cybersecurity, blockchain technology, economics of privacy, economics of malware, economics of authentication, the information security business, economics of vulnerabilities, copyrights and rights management, cybercrime cost measurement, theoretical models, forensic economics. Prerequisite(s): CYBR 1800. An additional fee is associated with this course.

CYBR 4010 - Special Topics in Cybersecurity (3)

Individual reading and research on more specialized and recent topics in cybersecurity not included in the regular offering of the school. Prerequisite(s): CS 2300 or CS 2400. An additional fee is associated with this course.

CYBR 4140 - Web Applications Security (3)

Identification and prevention of security vulnerabilities in web applications. Topics include Cross-site scripting (XSS), Cross-Site Request Forgery, Browser Security, Secure Web Development. This course is co-listed with CYBR 5240. Prerequisite(s): CS 1030 or CS 1100; and Junior status. An additional fee is associated with this course.

CYBR 4610 - Cloud Security (3)

Introduce cloud security from fundamentals to advanced and practical topics. Topics include cloud security fundamentals, threat models and risks/vulnerabilities of cloud computing, technical security principles and controls for cloud data, cloud platforms and infrastructure, and cloud application, the Cloud Control Matrix (CCM) and CAIQ, and scripting and automation in the cloud. This course prepares students for the (ISC)² Certified Cloud Security Professional certification exam. This course is co-listed with CYBR 5610. Prerequisite(s): NET 1060 and CYBR 2500; or CS 3840. An additional fee is associated with this course. Spring.

CYBR 4820 - Introduction to Information Assurance (3)

Formal models and principles of computer security to achieve information assurance. Topics include security policies in an enterprise, multi-level security models, access control models and implementation, security evaluation, security risk assessment, legal and ethical aspects of security. This course is co-listed with CYBR 5820. Prerequisite(s): CS 2400. An additional fee is associated with this course.

CYBR 4840 - Ethical Hacking (3)

Introduction to hacking techniques and exploits for ethical purpose. Topics include pentesting scope and rules of engagement, reconnaissance, host discovery, port scanning, vulnerability scans, exploit launch and development, privilege escalation, password cracking, and postexploit strategies. This course is co-listed with CYBR 5840. Prerequisite(s): NET 1060 and CYBR 2500; or CS 3840. An additional fee is associated with this course.

CYBR 4850 - Computer and Network Forensics (3)

Digital forensics including computers, mobile devices, and network traffic. The course covers different types of software tools and techniques in order to perform forensic investigations. Topics include introduction to digital forensics, data acquisition, computer forensics analysis, mobile forensics analysis, network log and traffic acquisition, and network forensics analysis. This course is co-listed with CYBR 5850. Prerequisite(s): CS 2300 or CYBR 2500. An additional fee is associated with this course.

DANC 1110 - Modern Dance I (2)

Introduction and practice of basic modern dance concepts and techniques with an emphasis on creative movement dynamics, rhythmic and spatial aspects, and alignment.

DANC 1120 - Ballet Dance I (2)

Introduction and practice of basic ballet dance concepts and fundamental techniques with an emphasis on alignment and classical ballet vocabulary and positions.

DANC 1130 - Tap Dance I (2)

Introduction and practice of basic tap dance concepts and techniques with an emphasis on stylized steps and terminology coordinated with the rhythmic structure of tap dance.

DANC 1140 - Jazz Dance I (2)

Introduction and practice of basic jazz dance concepts and techniques with an emphasis on movement dynamics, isolation, syncopation, and alignment.

DANC 1270 - Ballroom Dance I (1)

Introduction and practice of basic dance steps, rhythms, fundamentals and partnering techniques for 4-6 smooth and Latin ballroom dance styles.

DANC 2100 - Dance Appreciation GE (3)

An introductory survey of dance as a performing art which will prepare the student for greater enjoyment and appreciation of various dance forms.

UCM General Education Competency: This course fulfills Knowledge Competency #6 and reinforces Foundational Skills Competency #4 in the Fine Arts area of the UCM General Education Program.

DANC 3110 - Modern Dance II (2)

Modern II continues to explore the basic elements of modern dance technique and new ways of moving while emphasizing strength, endurance, balance and extended combinations. Prerequisite(s): Designed for students with at least one year of formal dance training. DANC 1110 or permission of the instructor.

DANC 3120 - Ballet Dance II (2)

Ballet II continues development of the basic fundamentals of classical ballet technique and vocabulary with an emphasis on alignment, sequence development, and performance quality. Prerequisite(s): Designed for students with at least one year of formal ballet training. DANC 1120 or permission of the instructor.

DANC 3130 - Tap Dance II (2)

Continues building basic and intermediate tap dance concepts and techniques with an emphasis on stylized steps and terminology coordinated with the rhythmic structure of tap dance. Prerequisite(s): Designed for students with at least one year of formal tap training. DANC 1130 or permission of the instructor.

DANC 3140 - Jazz Dance II (2)

Continues to explore the basic elements and fundamentals of jazz dance technique and vocabulary while emphasizing movement dynamics, isolation, syncopation, alignment and artistic expression. Prerequisite(s): Designed for students with at least one year of formal dance training. DANC 1140 or permission of the instructor.

DANC 3210 - Musical Theatre Dance (3)

Introduction and practice of basic musical theatre dance concepts and techniques with an emphasis on gaining performance skills in different styles of musical theatre dance choreography.

DANC 3270 - Ballroom Dance I (1)

Introduction and practice of basic dance steps, rhythms, fundamentals and partnering techniques for 4-6 smooth and Latin ballroom dance styles. Prerequisite(s): DANC 1270.

DANC 4210 - Choreography I (3)

Introduction to the craft and creative process of choreography through the means of exploration, improvisational movement, and developing basic movement themes and solo/duet works.

CADD 1100 - Orientation to Design/Drafting (1)

Orientation to the philosophy, development, and current trends in the professional preparation for careers in design/drafting. An additional fee is associated with this course.

CADD 1110 - Fundamentals of Drafting (3: 3 lecture, 0 lab)

Introduction to the graphic language of technical drawing and communications. Multiview and pictorial technical drawing using freehand, manual and computer-aided drafting techniques. An additional fee is associated with this course.

CADD 1111 - Drafting for CMGT (3)

Streamlines the content of Basic AutoCAD, Residential Architectural Drawing, and Civil Drafting. This course is for Construction Management (CMGT) majors and will serve as the prerequisite for advanced drafting courses required in the CMGT curriculum. Prerequisite(s): Only for CMGT majors. An additional fee is associated with this course.

CADD 1170 - Introduction to Computer-Aided Drafting (3: 3 lecture, 0 lab)

Fundamental applications of AutoCAD to the solution of technical drawing problems for the industry. Prerequisite(s): CADD 1110 with a C or better or concurrently or CTE 1300. An additional fee is associated with this course.

CADD 2100 - Sophomore Design/Drafting Seminar (0.5)

Seminar for study of current topics in design/drafting through discussions, activities, and outside speakers. Students will continue to develop leadership skills, relationships with peers and faculty and plan a successful career. Prerequisite(s): CADD 1100. An additional fee is associated with this course.

CADD 2140 - Advanced Parametric Modeling (3: 3 lecture, 0 lab)

Advanced industrial applications of computer-aided drafting systems. Three dimensional modeling and design using interactive graphics techniques and standard design elements. Prerequisite(s): CADD 1110 with a C or better or CTE 1300. An additional fee is associated with this course.

CADD 2150 - Descriptive Geometry for Engineering Technology (3: 3 lecture, 0 lab)

A basic course in graphic science for engineers, drafters or drafting teachers. Prerequisite(s): CADD 1110 with a C or better or CTE 1300 with a C or better. An additional fee is associated with this course.

CADD 2160 - Structural Drafting (3: 3 lecture, 0 lab)

A study of structural systems utilizing metal, concrete, masonry and wood, including the development of appropriate engineering calculations and working drawings. Prerequisite(s): CADD 1170 with a C or better and CMGT 2020. An additional fee is associated with this course.

CADD 2171 - Introduction to MicroStation (3: 3 lecture, 0 lab)

Applications of MicroStation to the solution of technical drawing problems for industry. An additional fee is associated with this course.

CADD 2180 - Technical Illustration (3: 3 lecture, 0 lab)

Pictorial representation using various illustrative media. Prerequisite(s): CADD 1170 with a C or better. An additional fee is associated with this course.

CADD 3100 - Junior Design/Drafting Seminar (0.5)

Seminar for study of current topics in design/drafting through discussions, activities, and outside speakers. Students will continue to develop leadership skills, relationships with peers and faculty and plan a successful career. Prerequisite(s): CADD 2100. An additional fee is associated with this course.

CADD 3120 - Machine Drafting (3: 3 lecture, 0 lab)

Working drawings of machine parts, using tables, tolerancing, sheet metal and welding drawings. Prerequisite(s): CADD 2140 with a C or better and ENGT 2530. An additional fee is associated with this course.

CADD 3150 - Civil Drafting (3: 3 lecture, 0 lab)

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(s): CADD 1170 with a C or better. An additional fee is associated with this course.

CADD 3160 - Residential Architectural Drawing (3: 3 lecture, 0 lab)

Principles of planning residential structures including selection of materials, methods of construction, and development of detailed working drawings. Prerequisite(s): CADD 1170 with a C or better. An additional fee is associated with this course.

CADD 3170 - Computer Drafting Systems (3: 3 lecture, 0 lab)

Computer-aided drafting involving operating systems, programming languages, macros, networks, and customization of software. Prerequisite(s): CADD 1170. An additional fee is associated with this course.

CADD 3175 - Advanced MicroStation (3: 3 lecture, 0 lab)

Advanced applications of MicroStation for the solution of technical drawing problems for industry. Management of CADD hardware and applications software. Prerequisite(s): CADD 2171 with a C or better. An additional fee is associated with this course.

CADD 4100 - Senior Design/Drafting Seminar (1)

Seminar for study of current topics in design/drafting through discussions, activities, and outside speakers. Students will continue to develop leadership skills, relationships with peers and faculty and plan a successful career. Prerequisite(s): CADD 3100. An additional fee is associated with this course.

CADD 4114 - Advanced Technical Problems in Design/Drafting (1-3)

Individual or group work on advanced technical problems in design/drafting. Provide exploration of content not available through normal course offerings. *May be repeated for a maximum of 6 semester hours.* Prerequisite(s): 2.50 GPA, written contract/proposal with objectives and written school consent. An additional fee is associated with this course.

CADD 4124 - Geometric Dimensioning and Tolerancing Principles for Engineering Technology (3: 3 lecture, 0 lab)

Basic theory and application of geometric dimensioning and tolerancing practices applicable to working drawings of machine parts. Prerequisite(s): CADD 3120 with a C or better and ENGT 2530. An additional fee is associated with this course.

CADD 4150 - Applied Civil Design/Drafting (3: 3 lecture, 0 lab)

3D modeling applications for design objects such as contours, survey points, land surfaces, and road alignments. These concepts will assist graduates working in the fields of civil design and engineering. Prerequisite(s): CADD 1111 or CADD 3150 with a C or better. An additional fee is associated with this course.

CADD 4162 - Commercial Architectural Design/Drafting (BIM) (3: 3 lecture, 0 lab)

Commercial architectural plans and problems are studied and drawings are developed using CADD techniques including BIM. Prerequisite(s): CADD 2160 with a C or better and CMGT 2020. An additional fee is associated with this course.

CADD 4171 - Production Design/Drafting (3: 3 lecture, 0 lab)

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. This course is co-listed with CADD 5171. Prerequisite(s): CADD 2140 with a C or better; and CADD 3120 with a C or better; and ENGT 2530. An additional fee is associated with this course.

CADD 4172 - MEP (Mechanical, Electrical & Plumbing) & Industrial Piping Design/Drafting (3: 3 lecture, 0 lab)

MEP (Mechanical, Electrical & Piping/Plumbing) systems are designed and drawings are developed using manual and CADD techniques including BIM. Prerequisite(s): CADD 4162 with a C or better. An additional fee is associated with this course.

CADD 4174 - Machine Design (3: 3 lecture, 0 lab)

Drafting problems involving the elements of the designing and/or redesigning of mechanisms and machines. Prerequisite(s): CADD 2140 with a C or better and CADD 3120 with a C or better; CMGT 2020 and ENGT 2530. An additional fee is associated with this course.

CADD 4175 - Advanced 3D Analysis and Rapid Prototyping (3: 3 lecture, 0 lab)

Advanced course which surveys the application of computer drafting and design systems and how they relate to 3D analysis and rapid prototyping. Prerequisite(s): CADD 2140 with a C or better and CMGT 2020. An additional fee is associated with this course.

CADD 4180 - Industrial Design (3: 3 lecture, 0 lab)

Study and application of the design process and design principles related to industrial products. This course is co-listed with CADD 5180. Prerequisite(s): CADD 2140 with a C or better. An additional fee is associated with this course.

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.

This is a professional education course.

D&N 3340 - Nutrition (3)

Digestive process and fundamental principles of nutrition and their application to the feeding of individuals. Prerequisite(s): Grade of C or better in CHEM 1104 or CHEM 1131. Fall, Spring.

D&N 3350 - Community Nutrition (3)

Public health nutrition and nutrition care delivery in community programs. Prerequisite(s): D&N 3340 with a grade of C or better.

D&N 3360 - Entrepreneurship for Dietetics Professionals (3)

Identifies and develops dietetic entrepreneurial opportunities in a rapidly changing employment environment. Prerequisite(s): D&N 3340.

D&N 4340 - Advanced Nutrition (3)

An in-depth study of human nutrition and the evaluation of nutritional status. This course is co-listed with D&N 5340. Prerequisite(s): Grade of C or better in BIOL 3401, BIOL 3402, D&N 3340 and CHEM 1604.

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. This course is co-listed with D&N 5341. Prerequisite(s): D&N 3340.

D&N 4342 - Medical Nutrition I (3)

Role of nutrition in the prevention and dietary treatment of disease. This course is co-listed with D&N 5342. Prerequisite(s): Grade of C or better in BIOL 3401, BIOL 3402, D&N 3340 and CHEM 1604. Fall.

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. This course is co-listed with D&N 5343. Prerequisite(s): D&N 4342 with a grade of C or better. Spring.

D&N 4344 - Nutrition Education and Counseling (2)

Designed to assist in the development of skills related to nutrition counseling and communication, as well as enhance group nutrition education experience and skills Prerequisite(s): D&N 4342 with a grade of C or better.

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. Prerequisite(s): senior standing. Fall.

D&N 4346 - Dietary Supplements (3)

Course focuses on federal regulation of the natural health products industry, quality control of supplements, and legal and ethical considerations in recommending dietary supplements and complementary therapies. This course is co-listed with D&N 5346. Prerequisite(s): D&N 4340 or NUTR 4300

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. This course is co-listed with D&N 5350. *May be repeated for a maximum of 6 semester hours.* Prerequisite(s): senior standing.

D&N 4351 - Geriatric Nutrition (2)

Dietary needs and feeding of the elderly. This course is co-listed with D&N 5351. Prerequisite(s): D&N 3340.

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.

This is a professional education course.

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(s): DRED 2010.

This is a professional education course.

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. Prerequisite(s): DRED 2020. Summer.

This is a professional education course.

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. Prerequisite(s): DRED 2030. Summer.

This is a professional education course.

ECON 1010 - Principles of Macroeconomics GE (3)

An introduction to principles underlying the operation of modern industrial countries. Special attention is given to the determinants of income and employment.

UCM General Education Competency: This course fulfills Knowledge Competency #8 and reinforces Foundational Skills Competency #3 in the Social & Behavioral Sciences area of the UCM General Education Program.

This course is equivalent to MOTR ECON 101 Introduction to Macroeconomics in the Social & Behavioral Sciences Knowledge Area.

ECON 1011 - Principles of Microeconomics GE (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. Fall, Spring, Summer.

UCM General Education Competency: This course fulfills Knowledge Competency #8 and reinforces Foundational Skills Competency #4 in the Social & Behavioral Sciences area of the UCM General Education Program.

This course is equivalent to MOTR ECON 102 Introduction to Microeconomics in the Social & Behavioral Sciences Knowledge Area.

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(s): ECON 1010 or ECON 1011. Fall.

ECON 2033 - Economic Applications in Sports (3)

This applications course is designed to investigate questions related to the contribution of professional and recreational sports to social welfare. It includes an exploration of the business of professional and amateur sports. Not open to economics majors as a major or elective course. Spring, Summer.

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(s): ECON 1010. An additional fee is associated with this course.

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(s): ECON 1011. An additional fee is associated with this course.

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(s): ECON 1010. An additional fee is associated with this course. Fall, Spring.

ECON 3030 - Intermediate Microeconomics (3)

Conventional theory of consumption, production, pricing, and resource allocation. Prerequisite(s): ECON 1011. An additional fee is associated with this course. Fall, Spring.

ECON 3035 - Internship in Economics (1-6)

Opportunity for students to gain theoretical knowledge and practical application within a particular field of specialization. *May be repeated for a maximum of 9 semester hours.* Prerequisite(s): Admission to BSBA program, 60 semester hours and overall GPA of 2.50 or above, or consent of internship director. An additional fee is associated with this course. Fall, Spring, Summer.

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. Prerequisite(s): ECON 1010 and ECON 1011. An additional fee is associated with this course.

ECON 4000 - Senior Seminar in Economics (3)

The major will complete a research paper demonstrating the ability to address a research question (topics will vary) by applying theory and presenting empirical evidence and will prepare an oral presentation of the research project. Prerequisite(s): ECON 3010 and ECON 3030. An additional fee is associated with this course. Fall, Spring.

ECON 4010 - International Economics (3)

Principles underlying international trade and finance and analysis of current problems and related policies. This course is co-listed with ECON 5010. Prerequisite(s): ECON 1010 and ECON 1011. An additional fee is associated with this course. Fall.

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. This course is co-listed with ECON 5015. Prerequisite(s): ECON 1011 and FIN 2801 or MATH 1131 or MATH 1151. An additional fee is associated with this course.

ECON 4016 - Mathematical Economics II (2)

A continuation and more advanced study in the application of mathematical tools in economics. This course is co-listed with ECON 5016. Prerequisite(s): ECON 4015. An additional fee is associated with this course.

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. This course is co-listed with ECON 5020. Prerequisite(s): ECON 1010 and ECON 1011. An additional fee is associated with this course.

ECON 4030 - Directed Studies in Economics (1-3)

Intensive study of significant economic topics. This course is co-listed with ECON 5030. *May be repeated for a maximum of 9 semester hours.* An additional fee is associated with this course.

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. This course is co-listed with ECON 5050. An additional fee is associated with this course.

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(s): ECON 1011. An additional fee is associated with this course.

ECON 4054 - Sports Economics (3)

Designed to investigate questions relating to the contribution of professional and recreational sports to social welfare. This includes exploring the decision to participate, use public funding for sport facilities, and labor market issues. The general objective of this course is to help the student learn to apply economic concepts and ideas to the sports industry. Because of the applied nature of this course, problem solving and modeling are key skills for success. This course is co-listed with ECON 5054. Prerequisite(s): ECON 1011. An additional fee is associated with this course.

ECON 4060 - Game Theory (3)

Provides game theoretical tools used widely in economics to study situations in which various decision-makers interact. Applications include political science and biology. Prerequisite(s): ECON 1011 and MATH 1111. An additional fee is associated with this course. Spring.

ECON 4065 - Managerial Economics (3)

Designed to apply economic theory and statistical methods to managerial decision making. Allocation and pricing problems of business are key focuses. Prerequisite(s): ECON 3010, ECON 3030 and FIN 3801. An additional fee is associated with this course.

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(s): ECON 1011. An additional fee is associated with this course.

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. This course is co-listed with ECON 5075. Prerequisite(s): ECON 1010, ECON 3030 and FIN 3801. An additional fee is associated with this course. Spring.

ECON 4080 - Econometrics I (3)

Mathematical techniques and problems used in the quantitative approach to economic theory. This course is co-listed with ECON 5080. Prerequisite(s): ECON 3010 or ECON 3030; and FIN 3801. An additional fee is associated with this course.

ECON 4085 - Predictive Analytics (3)

Introductory course in data mining and predictive model development. Students will be introduced to database tools for collecting, retrieving, and applying data mining processes, as well as building predictive models for decision making. This course is co-listed with ECON 5085. Students who earned undergraduate credit for ECON 4085 may not take ECON 5085 for graduate credit. An additional fee is associated with this course. Fall, Spring.

ECON 4090 - Analytical Applications to Business (3)

An advanced course in predictive model applications. Students will be exposed to different models in financial economics, and datasets, to make informed business decisions. This course is co-listed with ECON 5090. Prerequisite(s): FIN 3801 and ECON 4085. An additional fee is associated with this course.

EDFL 1830 - Introduction to Academic Literacy (3)

Application of critical thinking to develop academic literacy. Emphasizes critical reading and purposeful interaction with various text structures, genres, and other media across academic disciplines. Placement according to University policy. Course restricted to freshmen and sophomores or by instructor consent.

EDFL 2100 - Introduction to the Teaching Profession (3)

An overview of the teaching profession with emphasis on instructional planning, assessment, collaboration with stakeholders, creating a productive classroom environment and understanding the social and cultural factors that influence the profession. Corequisite(s): should be taken concurrently with FLDX 2150 during the sophomore year.

This is a professional education course.

EDFL 2240 - Educational Psychology GE (3)

Furnishes the prospective teacher with the psychological concepts, principles, theories, research findings, and techniques relevant to guiding the educative process. It is strongly recommended that BSE and BME majors take this course concurrently with EDFL 2100 and FLDX 2150 during the sophomore year.

UCM General Education Competency: This course fulfills Knowledge Competency #8 and reinforces Foundational Skills Competency #4 in the Social & Behavioral Sciences area of the UCM General Education Program.

This is a professional education course.

EDFL 2250 - Introduction to English Language Learners and Culturally Responsive Pedagogy (2)

Candidates are introduced to English Language Learners and examine ways to assess first language competencies; identify and apply the six developmental levels of second language acquisition; technologies and resources for engaging and supporting achievement across academic content areas, and instructional and assessment strategies for bridging ELL progress. Paralinguistics, scaffolding, semiotics and other basic linguistic skills are explored. In addition, candidates examine the philosophical and conceptual frames for professional stance in terms of racial identity; socioeconomic status; sexual orientation; gender; ethnic and religious considerations and approaches and resources for respectful interactions with students and families that celebrate, value, and enhance success in the classroom community and culture.

EDFL 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. Prerequisite(s): cumulative GPA of 2.50; EDFL 2100 and FLDX 2150 and EDFL 2240.

This is a professional education course.

EDFL 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(s): EDFL 3210.

This is a professional education course.

EDFL 3230 - Introduction to Language, Literacy and Literature in the Middle Level Classroom, Block One (4)

An introduction to instructional practices appropriate for middle level content area teachers, implementing culturally responsive reading and writing programs in the classroom. Topics include teaching reading provisions, young adult literature, writing, speaking and listening; unit planning and evaluation. Field experience in a middle school is required. Prerequisite(s): EDFL 2100, EDFL 2240 and FLDX 2150. An additional fee is associated with this course.

This is a professional education course.

EDFL 3240 - Application of Content Area Literacy for Middle Level Learners, Block Two (4)

Prepares middle level teachers to address language, literacy and literature within content area instruction, focusing on promoting basic and higher-order literacy across the disciplines. Field experience in a middle school is required. Prerequisite(s): EDFL 2100, EDFL 2240, EDFL 3230 and FLDX 2150. This course can be taken concurrently with MLED 4135 and EDFL 4230. An additional fee is associated with this course.

This is a professional education course.

EDFL 3410 - Children's Literature (3)

Familiarity with various types of literature for children, principles for selecting excellent children's books, and methods of presentation for integration of children's literature into the early childhood, elementary and special education curriculum. The course includes resources and strategies for addressing different learning needs and culturally diverse populations. Prerequisite(s): EDFL 2100, EDFL 2240, EDSP 2100 and FLDX 2150.

This is a professional education course.

EDFL 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.*

EDFL 4074 - Methods of Teaching Middle School Social Studies (3)

Prepares students with middle school instructional strategies, student activities, and assessments to plan and implement in the social studies classroom, especially during observation and student teaching. Methods is taken prior to the student teaching semester.

This is a professional education course.

EDFL 4150 - Pedagogy & Methods for ELL (3)

This course explores the principles, methods, materials, and activities for the teaching of English Language Learners (ELL) in Missouri K-12 schools. Candidates are introduced to ELL and examine ways to assess first language competencies; identify and apply the six developmental levels of second language acquisition; use technologies and resources for engaging and supporting achievement across academic content areas; and use instructional and assessment strategies for bridging ELL progress. Paralinguistics, scaffolding, semiotics, and other basic linguistic skills are explored. In addition, candidates examine the philosophical and conceptual frames for professional stance in terms of racial identity, socioeconomic status, sexual orientation, gender, ethnic and religious considerations, and approaches and resources for respectful interactions with students and families. Not available to those with credit in EDFL 5150. Prerequisite(s): Advisor consent. Fall.

EDFL 4210 - Introduction to Content Area Literacy (2)

Provides an introduction to content area literacy, or the reading, writing, and critical thinking in and across the various disciplines for secondary and K-12 certification areas, along with instructional interventions for students with reading deficits. This course is co-listed with EDFL 5211. Prerequisite(s): EDFL 2100 and FLDX 2150 and EDFL 2240.

This is a professional education course.

EDFL 4212 - Literacy in the Disciplines I (2)

Designed to build on and advance the knowledge-base of EDFL 4210 including focus on discipline-specific applications of content area literacy unique to differing secondary subjects, for all students, including second language learners. This course is co-listed with EDFL 5212. Prerequisite(s): EDFL 2100 EDFL 2240, FLDX 2150; EDFL 4210 or concurrently.

This is a professional education course.

EDFL 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. Prerequisite(s): Admission to Teacher Education Program; EDFL 3215 or EDFL 3230 or EDFL 4210. Corequisite(s): EDFL 4250.

This is a professional education course.

EDFL 4230 - Response to Intervention for Middle School English Language Arts: Block Three (4)

Prepares pre-service English Language Arts teachers to meet the needs of middle school readers and writers at all levels, including Tiers 2 & 3 of Response to Intervention (RTI). The course focuses on assessments that drive instruction and appropriate methods, materials and strategies for the improvement of reading and writing. A middle school field component includes application of learning and instructional decision-making. Prerequisite(s): EDFL 2100, EDFL 2240, EDFL 3230 and FLDX 2150. This course is also designed to be taken concurrently with EDFL 3240 and MLED 4135.

This is a professional education course.

EDFL 4235 - Methods of Teaching Middle Level English Language Arts (3)

A study of the purposes and methods of teaching language arts in the middle grades, with specific focus on culturally responsive teaching as it relates to adolescents. Topics include research-based approaches to teaching reading, writing, listening and speaking; literature-based units; enhancing access to non-fiction; the writing process; philosophies and theories related to the teaching and learning of English Language Arts; resources; national and state standards for ELA. Prerequisite(s): Admission to Teacher Education; EDFL 2100, FLDX 2150, EDFL 2240. This course may be taken concurrently with EDFL 3230 or EDFL 3240 or EDFL 4240.

This is a professional education course.

EDFL 4240 - Integrated English Language Arts Curriculum & Assessment for Middle Level Learners: Block Four (4)

Theory and research models for culturally responsive English Language Arts at the middle level are connected to the development of Common Academic Standards (CAS) and initial teaching and assessment in the classroom with a required middle school field component. Candidates develop, implement, assess and reflect upon reading, writing, speaking, listening, representing and the use of technology to enhance literacy for on-track and at-risk middle school learners. Prerequisite(s): EDFL 2100, EDFL 2240, EDFL 3230, EDFL 3240 and FLDX 2150.

This is a professional education course.

EDFL 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. Prerequisite(s): Admission to Teacher Education Program, EDFL 3215 or EDFL 3230 or EDFL 4210. Corequisite(s): EDFL 4220.

This is a professional education course.

EDFL 4300 - Educational Assessment and Evaluation (2)

Instruction in the design, selection, and implementation of educational assessments, the generation and management of student data, and the interpretation and use of data to make instructional decisions. Prerequisite(s): Admission to Teacher Education Program.

This is a professional education course.

EDFL 4460 - K-12 Curriculum for ELL (3)

This course offers an introduction to elementary through high school English Language Teaching (ELT) and learning. Students will design and develop curricular materials including lesson plans and teaching materials to be used with English Language Learners (ELL) of all english proficiency levels. Students will experiment with different theories of world language learning methods, assessment, and the use of technology in the English language classroom. Not available to those with credit in EDFL 5460. Prerequisite(s): Advisor consent. Spring.

EDFL 4530 - Sociolinguistics (3)

This course will provide students an introduction to the basic concepts, scope, and methodology of the science of sociolinguistics in its historical and descriptive aspects, including topics and issues in current sociolinguistic and applied linguistics studies. Not available to those with credit in EDFL 5530.

Prerequisite(s): Advisor consent. Fall.

EDFL 4960 - K-12 Clinical Field Experience with ELL (3)

Students will develop proficiency in the application of instructional strategies designed to support the needs of ELL in a K-12 classroom. Students will complete a minimum of 90 hours of supervised ELL instruction in an approved K-12 educational setting. Not available to those with credit in EDFL 5960. Prerequisite(s): Advisor consent. Spring.

EDFL 4970 - Secondary Teaching and Behavioral Management (2)

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. Prerequisite(s): Admission to Teacher Education Program. Corequisite(s): FLDX 4970.

This is a professional education course.

EDFL 4971 - K-12 Content Area Literacy (1)

Designed to build on and apply the knowledge-base of EDFL 4210 for teachers receiving certification in K-12 subject areas by focusing on discipline-specific theory-into-practice of content area literacy. The student work in this course, under unified learning objectives, becomes individualized based on the students' certification areas. This course is co-listed with EDFL 5971. Prerequisite(s): EDFL 2100, EDFL 2240, FLDX 2150; EDFL 4210 or concurrently.

This is a professional education course.

EDFL 4972 - Literacy in the Disciplines II (2)

Designed to build on and apply the knowledge-base of EDFL 4210 and EDFL 4212, by focusing on discipline-specific theory-into-practice of content area literacy. The student work in this course, under unified learning objectives, becomes individualized based on the students' certification areas. This course is co-listed with EDFL 5972. Prerequisite(s): EDFL 2100, EDFL 2240, FLDX 2150; EDFL 4210 and EDFL 4212 or concurrently.

This is a professional education course.

EDFL 4973 - Classroom Management in Content Areas (1)

Provides information to help students develop proactive strategies to manage the classroom environment and student behavior in their specific content area. Emphasis is placed on the students' development of a personal and unique classroom management plan. National & international standards and best teaching practices form the basis as stated by the Interstate New Teacher Assessment and Support Consortium (INTASC).

This is a professional education course.

EDFL 4974 - Content Specific Assessment (1)

Instruction in the design and use of content specific formative and summative assessment strategies to promote student learning and facilitate instructional decision making. Prerequisite(s): Admission to Teacher Education Program.

This is a professional education course.

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(s): TECH 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(s): 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. Prerequisite(s): TECH 2040 or MATH 1131; and ET 2048.

EET 3034 - Electronic Instruments and Measurements (4: 3 lecture, 1 lab)

Design, operation and calibration of a variety of test instruments. Emphasis will be upon measurement procedures not normally practiced in introductory electronics courses. Prerequisite(s): ET 1050 or ET 2048 or concurrently. An additional fee is associated with this course.

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(s): ET 1010 or ET 1027 or consent of instructor. An additional fee is associated with this course.

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. Prerequisite(s): TECH 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. Prerequisite(s): 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. Prerequisite(s): 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. Prerequisite(s): 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.*

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, and simulation of control systems.

Prerequisite(s): EET 3310 and EET 3340.

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.

Prerequisite(s): ET 2065, EET 2320, EET 2330, and EET 3310.

ET 1010 - Applied Electricity (4: 3 lecture, 1 lab)

Provides basic theory together with appropriate lab experiences for introductory technical training in electrical principles including basic circuits, Ohm's Law, A.C. and D.C. theory, as well as generation and application of electrical energy. An additional fee is associated with this course.

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(s): Not open to electronics majors or minors. An additional fee is associated with this course.

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(s): MATH 1111 may be taken concurrently. An additional fee is associated with this course.

ET 1027 - AC Circuit Analysis (3)

Designed to provide an introduction to the fundamental laws of the sine-wave alternating current source. Applications of AC principles with regard to resistive, reactive, and complex impedance circuits will be analyzed. Phasor analysis of series, parallel, and series-parallel impedances, resonance, and filter circuits will be analyzed. Electronic Computer Aided Software will be used to analyze selected passive component circuits. Prerequisite(s): ET 1010. An additional fee is associated with this course.

ET 1050 - Digital Principles and Applications (3: 2 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. Prerequisite(s): ET 1010. An additional fee is associated with this course.

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(s): ET 1027 or concurrently. An additional fee is associated with this course. An additional fee is associated with this course.

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(s): ET 2048. An additional fee is associated with this course.

ET 2060 - Microprocessors: Theory and Application (3: 2 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(s): ET 1010 or ET 1050 or concurrently. An additional fee is associated with this course.

ET 2065 - Computer Programming for Electronics Technology (3)

The purpose of this course is to provide an introduction to the programming skills and practices needed to develop high-level software. C++ language is being taught because of its extremely wide usage in industry. Students will write, compile, troubleshoot, and demonstrate a variety of homework/assignments to enhance the understanding of programming concepts. Prerequisite(s): ET 1050 or concurrently. An additional fee is associated with this course.

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(s): ET 1050. An additional fee is associated with this course.

ET 3017 - Programmable Logic Controllers (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(s): ET 1010 or ET 1026. An additional fee is associated with this course.

ET 3020 - Circuit Analysis and Implementation (3: 2 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. Prerequisite(s): ET 2048 or consent of instructor. An additional fee is associated with this course.

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(s): ET 3017. An additional fee is associated with this course.

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(s): ET 2048. An additional fee is associated with this course.

ET 3041 - Communication Systems (3)

Provides a study of receiver and transmitter circuits and systems. Modulation methods, signal propagation, and antenna design. In class practical laboratory exercises will include alignment, measurement, and troubleshooting techniques. Additionally students will be introduced to digital signal processing and microwave technology. Prerequisite(s): ET 2048 or concurrently. An additional fee is associated with this course.

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.* An additional fee is associated with this course.

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.* An additional fee is associated with this course.

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. Prerequisite(s): ET 3017. An additional fee is associated with this course.

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(s): ET 2048. An additional fee is associated with this course.

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(s): ET 3041. An additional fee is associated with this course.

ECEL 2110 - Diversity and Social Justice GE (3)

Provides an analysis of social justice with an emphasis on cultural interaction to better understand human diversity issues, diverse perspectives, one another, and one's own sense of self.

UCM General Education Competency: This course fulfills Knowledge Competency #9 and Foundational

Skills Competency #4 in the Engagement area of the UCM General Education Program.

This is a professional education course.

ECEL 2510 - Concepts in Elementary Social Studies I (3)

An investigation of social studies concepts taught in the elementary grades including American and world history prior to the Civil War, the American government system, and basic geography skills. Effective teaching and assessment practices for elementary social studies will be introduced. Prerequisite(s): EDFL 2100, EDFL 2240, EDSP 2100, and FLDX 2150 or concurrently.

This is a professional education course.

ECEL 2520 - Concepts in Elementary Social Studies II (3)

An investigation of social studies concepts taught in the elementary grades including American and world history after the Civil War, the geography of U.S. regions, and economics. Effective teaching and assessment practices for elementary social studies will be introduced. Prerequisite(s): EDFL 2100, EDFL 2240, EDSP 2100, and FLDX 2150 or concurrently.

ECEL 2610 - Life & Earth Science for Teachers (3)

An inquiry driven course in life sciences (biology and applied earth/space sciences) consistent with national, state, and local standards designed for teacher candidates and content standards for elementary grades. Prerequisite(s): EDFL 2100, EDFL 2240, EDSP 2100 and FLDX 2150 or concurrently; general education science with lab.

This is a professional education course.

ECEL 2620 - Physical Science and Engineering Design for Teachers (3)

An inquiry driven course in physical science and applied engineering design consistent with national, state and local standards designed for teacher candidates and content standards for elementary grades. Prerequisite(s): EDFL 2100, EDFL 2240, EDSP 2100, and FLDX 2150 or concurrently; general education science with lab.

ECEL 2830 - Early Childhood Principles and Observation (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.

This is a professional education course.

ECEL 2850 - Integration of Arts & Movement in Early Childhood and Elementary Classrooms (3)

Designed to extend the knowledge base of teacher candidates receiving certification in birth-6th grade by focusing on integrating the arts (art, music, drama), movement, and physical education into content specific instruction. Students will develop the knowledge, skills, and strategies needed to incorporate creative expression of art, drama, music and movement into the early childhood/elementary classroom integrated

curriculum. Prerequisite(s): EDFL 2100 and EDFL 2240.

This is a professional education course.

ECEL 2900 - Technology in Education Seminar I (1)

Will provide pre-service teachers introduction to, demonstration of, and practice with technology used in education in a workshop format. Topics change to reflect current instructional technology practices.

This is a professional education course.

ECEL 2901 - Technology in Education Seminar II (1)

Will provide pre-service teachers introduction to, demonstration of, and practice with technology used in education in a workshop format. Topics change to reflect current instructional technology practices in schools and ethical use of technology.

This is a professional education course.

ECEL 3100 - Early Childhood Assessment and Screening (2)

Part of the integrated content methods block for early childhood. Clinical Program Block I for early childhood education must be taken with no exceptions or substitutions. An integrative approach to understanding the development of and teaching the early childhood learner (preK-K) which includes a focus on the interdependence of language and literacy development; methods and concepts in the content areas of communication arts, mathematics, social studies/economics, and science education; and early childhood assessment and screening. The teacher candidate will learn methods of assessment, observation, enrichment and intervention while working in a preschool or kindergarten environment. Competencies related to teaching strategies, content, technology, differentiation, skills, attitudes, evaluative devices, and assessments will be modeled and practiced in the corequisite practicum experience. Prerequisite(s): application to Clinical Pathway, completion of Clinical Candidate Expectations Contract, 2.75 cumulative GPA, 3.00 major GPA, and current and clear background check.

This is a professional education course.

ECEL 3150 - Early Childhood Practicum (2)

Part of the integrated content methods block for early childhood. Competencies related to teaching strategies, content, technology, differentiation, skills, attitudes, evaluative devices, and assessments will be practiced in a preK-K field placement. Prerequisite(s): EDFL 2100, EDFL 2240, EDSP 2100, FLDX 2150, and departmental consent. Corequisite(s): ECEL 3830 and ECEL 3850. An additional fee is associated with this course.

This is a professional education course.

ECEL 3151 - Young Learner Practicum (Grades 1-3) (2)

Part of the integrated content methods block for the young learner (grades 1-3). Competencies related to teaching strategies, content, technology, differentiation, skills, attitudes, evaluative devices, and assessments will be practiced in a Grades 1-3 field placement. Prerequisite(s): EDFL 2100, EDFL 2240, EDSP 2100, FLDX 2150, and departmental consent. Corequisite(s): ECEL 3310, ECEL 3510, ECEL 3610, and ECEL 3810. An additional fee is associated with this course.

This is a professional education course.

ECEL 3152 - Intermediate Learner Practicum (Grades 4-6) (2)

Part of the integrated content methods block for the intermediate learner (grades 4-6). Competencies related to teaching strategies, content, technology, differentiation, skills, attitudes, evaluative devices, and assessments will be practiced in a Grades 4-6 field placement. Prerequisite(s): EDFL 2100, EDFL 2240, EDSP 2100, FLDX 2150, and departmental consent. Corequisite(s): ECEL 3320, ECEL 3520, ECEL 3620, and ECEL 3820. An additional fee is associated with this course.

This is a professional education course.

ECEL 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. Prerequisite(s): cumulative GPA of 2.50; EDFL 2100 and EDFL 2240 and FLDX 2150.

This is a professional education course.

ECEL 3225 - Acquisition of Language and Literacy (3)

Emphasizes the theories and sequence of normal language acquisition and skills, as well as attitudes and methods of developing, promoting and managing emergent literacy instruction. Candidates should enroll in this course concurrently with the first clinical block. Prerequisite(s): EDFL 2100, EDFL 2240, EDSP 2100 and FLDX 2150.

This is a professional education course.

ECEL 3230 - Teaching English Language Arts in the Elementary Classroom (3)

An integrative approach to teaching the communication arts of reading, writing, listening, and speaking in the elementary curriculum. Prerequisite(s): cumulative GPA of 2.75; ECEL 3225.

This is a professional education course.

ECEL 3300 - Literacy and Communication Arts for Early Childhood (1)

An integrative approach to understanding the development of and teaching the early childhood learner (preK-K) which includes a focus on the interdependence of language and literacy development; methods and concepts in the content areas of communication arts, mathematics, social studies/economics, and science education; and early childhood assessment and screening. The teacher candidate will learn methods of assessment, observation, enrichment and intervention while working in a preschool or kindergarten environment. Competencies related to teaching strategies, content, technology, differentiation, skills, attitudes, evaluative devices, and assessments will be modeled and practiced in the corequisite practicum experience. Prerequisite(s): application to Clinical Pathway, completion of Clinical Candidate Expectations Contract, 2.75 cumulative GPA, 3.00 major GPA, and current and clear background check. Corequisite(s): ECEL 3100, ECEL 3150, ECEL 3400, ECEL 3500, ECEL 3600 and ECEL 3800.

This is a professional education course.

ECEL 3310 - Literacy and Communication Arts for the Young Learner (2)

Part of the integrated content methods block for the young learner (grades 1-3). Candidates will develop an understanding of the skills of reading, writing, speaking, listening, viewing and visually representing and the means to integrate these skills across the curriculum in grades 1 - 3. Prerequisite(s): EDFL 2100, EDFL 2240, EDSP 2100, FLDX 2150, and departmental consent. Corequisite(s): ECEL 3151, ECEL 3510, ECEL 3610 and ECEL 3810.

This is a professional education course.

ECEL 3320 - Literacy and Communication Arts for the Intermediate Learner (2)

Part of the integrated content methods block for the intermediate learner (grades 4-6). Candidates will develop an understanding of the skills of reading, writing, speaking, listening, viewing and visually representing and the means to integrate these skills across the curriculum in grades 4 - 6. Prerequisite(s): EDFL 2100, EDFL 2240, EDSP 2100, FLDX 2150, and departmental consent. Corequisite(s): ECEL 3152, ECEL 3520, ECEL 3620 and ECEL 3820.

This is a professional education course.

ECEL 3400 - Language Development (2)

An integrative approach to understanding the development of and teaching the early childhood learner (preK-K) which includes a focus on the interdependence of language and literacy development; methods and concepts in the content areas of communication arts, mathematics, social studies/economics, and science education; and early childhood assessment and screening. The teacher candidate will learn methods of assessment, observation, enrichment and intervention while working in a preschool or kindergarten environment. Competencies related to teaching strategies, content, technology, differentiation, skills, attitudes, evaluative devices, and assessments will be modeled and practiced in the corequisite practicum experience. Prerequisite(s): application to Clinical Pathway, completion of Clinical Candidate Expectations Contract, 2.75 cumulative GPA, 3.00 major GPA, and current and clear background check. Corequisite(s): ECEL 3100, ECEL 3150, ECEL 3300, ECEL 3500, ECEL 3600 and ECEL 3800.

This is a professional education course.

ECEL 3430 - Strategies for Teaching Elementary Social Studies & Science (2)

The purpose of this course is to provide pre-service teachers with teaching methods, content, skills, attitudes, evaluative devices and assessment related to social studies and science education competencies. Prerequisite(s): EDFL 2100, EDFL 2240, POLS 1510, and HIST 1350 or HIST 1351.

This is a professional education course.

ECEL 3468 - Community, School and Family Connections (3)

Focuses on the interactions among community, school and family systems relative to existing and emerging paradigms. Prerequisite(s): EDFL 2100, EDFL 2240, EDSP 2100, FLDX 2150.

This is a professional education course.

ECEL 3500 - Social Studies for Early Childhood (1)

An integrative approach to understanding the development of and teaching the early childhood learner (preK-K) which includes a focus on the interdependence of language and literacy development; methods and concepts in the content areas of communication arts, mathematics, social studies/economics, and science education; and early childhood assessment and screening. The teacher candidate will learn methods of assessment, observation, enrichment and intervention while working in a preschool or kindergarten environment. Competencies related to teaching strategies, content, technology, differentiation, skills, attitudes, evaluative devices, and assessments will be modeled and practiced in the corequisite practicum experience. Prerequisite(s): application to Clinical Pathway, completion of Clinical Candidate Expectations Contract, 2.75 cumulative GPA, 3.00 major GPA, and current and clear background check. Corequisite(s): ECEL 3100, ECEL 3150, ECEL 3300, ECEL 3400, ECEL 3600 and ECEL 3800.

This is a professional education course.

ECEL 3510 - Social Studies and Economics for the Young Learner (1)

Part of the integrated content methods block for the young learner (grades 1-3). Candidates will develop an understanding of the social studies and economics concepts taught in grades 1-3 and the means to integrate these skills across the curriculum. Prerequisite(s): EDFL 2100, EDFL 2240, EDSP 2100, FLDX 2150, and departmental consent. Corequisite(s): ECEL 3151, ECEL 3310, ECEL 3610 and ECEL 3810.

This is a professional education course.

ECEL 3520 - Social Studies and Economics for the Intermediate Learner (1)

Part of the integrated content methods block for the young learner (grades 4-6). Candidates will develop an understanding of the social studies and economics concepts taught in grades 4-6 and the means to integrate these skills across the curriculum. Prerequisite(s): EDFL 2100, EDFL 2240, EDSP 2100, FLDX 2150, and departmental consent. Corequisite(s): ECEL 3152, ECEL 3320, ECEL 3620 and ECEL 3820.

This is a professional education course.

ECEL 3600 - Science for Early Childhood (1)

An integrative approach to understanding the development of and teaching the early childhood learner (preK-K) which includes a focus on the interdependence of language and literacy development; methods and concepts in the content areas of communication arts, mathematics, social studies/economics, and science education; and early childhood assessment and screening. The teacher candidate will learn methods of assessment, observation, enrichment and intervention while working in a preschool or kindergarten environment. Competencies related to teaching strategies, content, technology, differentiation, skills, attitudes, evaluative devices, and assessments will be modeled and practiced in the corequisite practicum experience. Prerequisite(s): application to Clinical Pathway, completion of Clinical Candidate Expectations Contract, 2.75 cumulative GPA, 3.00 major GPA, and current and clear background check. Corequisite(s): ECEL 3100, ECEL 3150, ECEL 3300, ECEL 3400, ECEL 3500 and ECEL 3800.

This is a professional education course.

ECEL 3610 - Science for the Young Learner (1)

Part of the integrated content methods block for the young learner (grades 1-3). Candidates will develop an understanding of the science concepts taught in grades 1-3 and the means to integrate these skills across the curriculum. Prerequisite(s): EDFL 2100, EDFL 2240, EDSP 2100, FLDX 2150, and departmental consent. Corequisite(s): ECEL 3151, ECEL 3310, ECEL 3510 and ECEL 3810.

This is a professional education course.

ECEL 3620 - Science for the Intermediate Learner (1)

Part of the integrated content methods block for the intermediate learner (grades 4-6). Candidates will develop an understanding of the science concepts taught in grades 4-6 and the means to integrate these skills across the curriculum. Prerequisite(s): EDFL 2100, EDFL 2240, EDSP 2100, FLDX 2150, and departmental consent. Corequisite(s): ECEL 3152, ECEL 3320, ECEL 3520 and ECEL 3820.

This is a professional education course.

ECEL 3800 - Math for Early Childhood (1)

An integrative approach to understanding the development of and teaching the early childhood learner (preK-K) which includes a focus on the interdependence of language and literacy development; methods and concepts in the content areas of communication arts, mathematics, social studies/economics, and science education; and early childhood assessment and screening. The teacher candidate will learn methods of assessment, observation, enrichment and intervention while working in a preschool or kindergarten environment. Competencies related to teaching strategies, content, technology, differentiation, skills, attitudes, evaluative devices, and assessments will be modeled and practiced in the corequisite practicum experience. Prerequisite(s): application to Clinical Pathway, completion of Clinical Candidate Expectations Contract, 2.75 cumulative GPA, 3.00 major GPA, and current and clear background check. Corequisite(s): ECEL 3100, ECEL 3150, ECEL 3300, ECEL 3400, ECEL 3500 and ECEL 3600.

This is a professional education course.

ECEL 3810 - Mathematics for the Young Learner (2)

Part of the integrated content methods block for the young learner. Course examines the teaching and learning of mathematics in grades 1-3. Prerequisite(s): MATH 1620.

This is a professional education course.

ECEL 3820 - Mathematics for the Intermediate Learner (2)

Part of the integrated content methods block for the intermediate learner. Course examines the teaching and learning of mathematics in grades 4-6.

This is a professional education course.

ECEL 3830 - Early Childhood Curriculum (3)

Part of the integrated content methods block for the early learner (PreK-K). This course introduces students to curriculum, instruction and assessment in Early Childhood Education. The course provides candidates with knowledge and experience in developing and implementing integrated, developmentally and culturally appropriate curriculum for early childhood (birth-age 8). Prerequisite(s): EDFL 2100, EDFL 2240, EDSP 2100, FLDX 2150, and departmental consent. Corequisite(s): ECEL 3150 and ECEL 3850.

This is a professional education course.

ECEL 3850 - Development and Learning Through Play (3)

Part of the integrated content methods block for the early learner (PreK- K). 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. Prerequisite(s): EDFL 2100, EDFL 2240, EDSP 2100, FLDX 2150, and departmental consent. Corequisite(s): ECEL 3150 and ECEL 3830.

This is a professional education course.

ECEL 3851 - Practicum in Early Childhood (1)

Student observation and participation with preschool children. Students work with 2, 3 and 4-year old children. Prerequisite(s): CFD 1220 or PSY 2220 or PSY 3220; and ECEL 2830. An additional fee is associated with this course.

This is a professional education course.

ECEL 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.*

ECEL 4120 - Curriculum Design and Assessment (3)

Part of the integrated content/methods Senior 1 block. This course prepares the teacher candidate to use formal and informal assessment strategies to evaluate student learning and to design units of instruction that meet individual needs of children. Prerequisite(s): Departmental consent required. Corequisite(s): ECEL 4140, ECEL 4400 and MATH 3800.

This is a professional education course.

ECEL 4140 - Communication Arts Integration (5)

Part of the integrated content/methods Senior 1 block. This course prepares the teacher candidate to apply a balanced communication arts program within a school setting. An integrative approach to teaching the communication arts will be emphasized as relevant to early and elementary literacy programs. Prerequisite(s): Departmental consent required. Corequisite(s): ECEL 4120, ECEL 4400 and MATH 3800.

This is a professional education course.

ECEL 4150 - Student Teaching Professional Seminar (2)

Culminating experience synthesizing theory and practice taken with student teaching for early childhood, elementary, and double majors in elementary education. Prerequisite(s): Admission to Teacher Education Program; cumulative GPA of 2.50; ECEL 4400. Must be taken as part of student teaching placement with FLDX 4495 or FLDX 4496 (See description of Professional Education Semester.)

This is a professional education course.

ECEL 4400 - Classroom Management and Interactions (3)

Part of the integrated content/methods Senior 1 block. This course seeks to provide the preservice teacher with authentic and applicable classroom management knowledge and strategies that enhance and enrich teaching and learning. Prerequisite(s): Departmental consent required. Corequisite(s): ECEL 4120 and MATH 3800.

This is a professional education course.

ECEL 4800 - Curriculum Design and Assessment in Mathematics (2)

Prepares the teacher candidate to use formal and informal assessment strategies to evaluate students' learning of mathematics and to design units of mathematical instruction that meet individual needs of children. Prerequisite(s): departmental consent. Corequisite(s): ECEL 4120, ECEL 4140, and ECEL 4400.

This is a professional education course.

ENGT 1000 - Principles of Engineering (3)

This introductory course explores the wide variety of careers in engineering and technology and covers various technology systems and manufacturing processes. An additional fee is associated with this course.

ENGT 1010 - Materials for Manufacturing and Construction (3)

Construction materials, including sources, characteristics, uses, and standard sizes and packaging, with relative values of different grades. An additional fee is associated with this course.

ENGT 1012 - Global Production Technology (2)

Study of production technology along with the problems, successes and challenges of the application of technology globally. An additional fee is associated with this course.

ENGT 1120 - Welding (3: 2 lecture, 1 lab)

Study and practice of four basic welding processes: oxyacetylene, metallic arc, MIG and TIG. An additional fee is associated with this course.

ENGT 1400 - Fundamentals of Engineering Design (3)

This course introduces the graphic language of technical drawings and communications used to represent mental images. Students will practice visualization, interpret and use engineering drawings, and model physical objects using 3D and 2D methods. An additional fee is associated with this course.

ENGT 1500 - Orientation to Engineering Technology (3)

An introduction to Engineering Technology as an academic endeavor including the consideration of sub disciplines, program requirements, and professional opportunities. In addition, this course will provide students a chance to learn about current events in the engineering field through the use of guest speakers, open discussions, informative field trips, and career development opportunities. An additional fee is associated with this course.

ENGT 1501 - Seminar in Engineering Technology (1)

Forum to provide students an opportunity to learn about current events in the engineering field through the use of guest speakers, open discussions, and informative field trips. Students should expect to share cost of field trips and professional materials. *Must be repeated for a minimum of 2 semester hours.* An additional fee is associated with this course.

ENGT 1510 - Introduction to Manufacturing Processes (3: 2 lecture, 1 lab)

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. An additional fee is associated with this course.

ENGT 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. An additional fee is associated with this course.

ENGT 2500 - Applied Computer Technology (2)

Develops computer literacy through a study of microcomputers, peripherals and applications, and software. An additional fee is associated with this course.

ENGT 2515 - Applied Manufacturing Processes (3: 2 lecture, 1 lab)

The manufacturing processes used to fabricate and form engineering materials into useful products. Includes laboratory experiences using the common materials and basic processes. Prerequisite(s): ENGT 1510. An additional fee is associated with this course.

ENGT 2530 - Machine Tool Technology (3: 2 lecture, 1 lab)

An introduction to machine tools with experiences in turning, drilling, milling, grinding, and related bench work. Assigned projects. An additional fee is associated with this course.

ENGT 2600 - Lean Enterprises (3)

Exploration and applied engineering principles of lean systems for manufacturing and services. Value-added theories and processes experienced include: process mapping, just-in-time, Kanban, 5S, Kaizen, error-proofing, work optimization, productive maintenance and supply chain management. An additional fee is associated with this course.

ENGT 3001 - New and Existing Energy Technology (3)

Explores the world of conventional and sustainable energy and how it will affect society as a whole. Topics of the course include society's energy dependence, energy depletion, electricity and the utility industry, hydrocarbons as a fuel source, nuclear energy, hydropower energy, sustainable energy and energy strategies of the future. An additional fee is associated with this course.

ENGT 3120 - Advanced Welding Technology I (3: 2 lecture, 1 lab)

Designed to provide students with a study and practice of advanced welding and cutting processes: automated plasma arc cutting, axial spray transfer, pulse and pulse on pulse transfer, out of position GMAW and SMAW as well as GTAW of aluminum and stainless steel base metals. Prerequisite(s): ENGT 1120. An additional fee is associated with this course.

ENGT 3130 - Composite Technology I (3)

Fundamental principles of materials, basic design theory, manufacturing processes, inspection and repair concepts. An additional fee is associated with this course.

ENGT 3200 - Energy Production and Transmission (3)

Explores how electric power is produced, transmitted and distributed. Topics of the course include: the generation of electricity (conventional and nonconventional), electric transmission systems, electric distribution systems and power quality. Prerequisite(s): ET 1027. An additional fee is associated with this course.

ENGT 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. An additional fee is associated with this course.

ENGT 3300 - Energy Conservation (3)

Encompasses how energy is measured, supplied, analyzed and conserved. Topics covered in this course include: the measurement of energy, environmental impacts of energy consumption, competition in the energy industry, energy audits and analysis techniques, energy monitoring, energy efficiency and low energy building design. An additional fee is associated with this course.

ENGT 3400 - Manufacturing Design (3)

A course focusing on design as it relates to manufacturing with specific emphasis on jigs and fixtures. Students will incorporate knowledge of manufacturing methods to creatively solve production requirements using 3D modeling systems. Prerequisite(s): ENGT 1400, ENGT 2040, ENGT 2530, MATH 1131, and PHYS 1101. An additional fee is associated with this course.

ENGT 3450 - Applied Mechanics of Materials for Engineering Technology (3: 2 lecture, 1 lab)

Application of the laws of material mechanics using real world problems and computer simulations. Studies will include the analysis of cables, frames, trusses, beams, machines and mechanisms. Prerequisite(s): MATH 1131, PHYS 1101 and ENGT 2040. An additional fee is associated with this course. Fall, Spring.

ENGT 3501 - Computer Programming for Manufacturing (3)

Students will study control logic, data acquisition, data storage and computer programming as they relate to manufacturing. Prerequisite(s): CTE 1210. An additional fee is associated with this course.

ENGT 3510 - Project Management for Engineering Technology (3)

Planning and controlling the manufacturing process including materials, machines, people, and suppliers. An additional fee is associated with this course.

ENGT 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. Prerequisite(s): ECON 1010. An additional fee is associated with this course.

ENGT 3530 - Inspection and Quality Control (3)

Principles and methods of controlling the quality of manufactured products. Emphasis will be on gauging and inspection. An additional fee is associated with this course.

ENGT 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. An additional fee is associated with this course.

ENGT 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. An additional fee is associated with this course.

ENGT 3600 - Applied Thermodynamics (3)

Introduction to the basic concepts of thermodynamic systems and their application in engineering situations. Dynamics of energy through the air, gas or other media as well as basic properties of gases, liquids and vapors, including adiabatic and isothermal processes, energy and energy transfer mechanisms, enthalpies/analysis of systems, first and second laws of thermodynamics and the performance characteristics of heat engines. Prerequisite(s): MATH 1131 and PHYS 1101. An additional fee is associated with this course.

ENGT 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. An additional fee is associated with this course.

ENGT 4110 - Engineering Technology Problem Solving (3)

Designed for students preparing for careers in engineering technology. Student teams will analyze manufacturing problems, propose solutions, and present recommendations. Prerequisite(s): senior standing. An additional fee is associated with this course.

ENGT 4120 - Hydrology and Drainage Design (3)

Study of basic hydraulic engineering and hydrology concepts focused on open channel flow and culvert design. Hydraulic design topics include: basic hydraulic concepts, open channels, culverts, storm water systems, and detention basins; design of sedimentation control devices; and current environmental

regulations. Hydrology topics covered include: calculating storm water runoff and erosion and sedimentation control measures. Course work involves the application of software in analysis and design. Prerequisite(s): GEOS 2100. An additional fee is associated with this course.

ENGT 4140 - Soils and Foundation Design (3)

Basic principles of soil mechanics and foundation design and their application to civil engineering. Soils topics include the identification and classification of soils, permeability, soil strengths, drainage and frost action, compaction and stabilization, and evaluation of highway subgrades. Standard laboratory soil tests are performed to determine the physical and mechanical properties of soils. This knowledge is then applied to engineering designs such as excavation bracing, soil stabilization, geotextiles, spread footings, pile foundations, retaining walls, and earth retaining structures. Prerequisite(s): GEOS 2100. An additional fee is associated with this course.

ENGT 4150 - Concrete and Steel Design (3)

A course concentrating on design equations for both elements comprised of reinforced concrete and structural steel for the design of beams, columns, and other structural elements which meet code-prescribed limits. Prerequisite(s): CMGT 3020 An additional fee is associated with this course.

ENGT 4160 - Transportation Systems Design (3)

The principles and practices of transportation systems - highway, mass transit, rail, waterways, and air transportation are covered. Special emphasis is placed on highway planning and design, construction, and safety. Highway design principles, including environmental impact, traffic studies, location planning, horizontal and vertical alignment studies, intersections and interchanges, earthwork, drainage, and pavement design are studied. Prerequisite(s): ENGT 4120. An additional fee is associated with this course.

ENGT 4180 - Water and Wastewater Systems Design (3)

Studies the fundamental principles and applications of water distribution systems, wastewater collection systems, and water and wastewater treatment processes. Topics include current methods and procedures employed in drinking water system demands; water distribution systems; water treatment processes; wastewater system demands; wastewater collection systems; including gravity sewers, force mains, pump stations, and permitting requirements. Prerequisite(s): ENGT 4120. An additional fee is associated with this course.

ENGT 4200 - Ethical and Legal Issues in the Energy Industry (3)

Covers the foundational economic and ethical issues related to the energy industry as well as the laws that guide and manage it. Topics covered in this course include: the economics of energy, ethics in the energy industry, energy policy, administration of energy regulations, energy decision making, and industry overviews of the major energy sources. An additional fee is associated with this course.

ENGT 4221 - Manufacturing Problem Solving (3: 2 lecture, 1 lab)

A micro-level look at issues that directly affect processes, procedures, and management within the manufacturing industry. This course is co-listed with ENGT 5221. An additional fee is associated with this course.

ENGT 4300 - Energy Markets and Structures (3)

Covers how energy markets are structured and regulated as well as the dynamics of current energy markets. In addition the course investigates how utilities make money, concepts of market restructuring, and the future of the electricity business. An additional fee is associated with this course.

ENGT 4400 - Energy Facilities Management (3)

Covers the variety of topics, issues and variables related to the control and operation of electric power systems. In this course students will learn about power system components, calculations related to the generation, distribution and loads on a power system, electromagnetic phenomena, electromechanical dynamics, and voltage and frequency stability. An additional fee is associated with this course.

ENGT 4500 - Mechanical Engineering Design (3)

This course will concentrate on the design and redesign of mechanisms and machines for a variety of purposes which will utilize the principles of kinematics and physics, as well as other related subjects. Common machine elements such as transmission elements (gears, belts, chains, brakes, clutches, etc.), screws, fasteners, springs, and cams among others will be analyzed. Designs will be tested virtually with loads using relevant software and finite element analysis. Prerequisite(s): ENGT 3400 and ENGT 3450. An additional fee is associated with this course.

ENGT 4520 - Robotics and Automation (3: 3 lecture, 0 lab)

Automated manufacturing equipment, computer integrated manufacturing systems, and the use of industrial robots. Computer programming background recommended. This course is co-listed with ENGT 5520. An additional fee is associated with this course.

ENGT 4530 - Advanced Robotics, Vision, Automation & Controls (3: 2 lecture, 1 lab)

The advanced study of automated manufacturing equipment which will include the integration of industrial robots, vision systems, automation, and control systems. Prerequisite(s): ENGT 4520. An additional fee is associated with this course. Spring.

ENGT 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(s): senior standing. An additional fee is associated with this course.

ENGT 4580 - Quality Systems Engineering (3)

The principles and practices of Total Quality Managements and the decision making tools and techniques utilized by professionals in today's successful industries. This course is co-listed with ENGT 5580. An additional fee is associated with this course.

ENGT 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. This course is co-listed with ENGT 5590. Prerequisite(s): ENGT 4520. An additional fee is associated with this course.

ENGT 4750 - Lean Six Sigma (3)

Exploration and applied engineering principles of Lean Six Sigma for manufacturing and services. Value-added theories and processes experienced include: process improvement, strategic planning, costs of quality, performance measures, project management, DMAIC problem solving, statistics, control charts, process capability, reliability, design of experiments (DOE), failure modes and effects analysis (FMEA), and Lean Six Sigma. Prerequisite(s): ENGT 2600. An additional fee is associated with this course.

ENGL 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. Fall, Spring.

ENGL 1020 - Composition I GE (3)

The logic and rhetoric of expository writing.

Prerequisite(s): placement according to University policy applies. Fall, Spring, Summer.

UCM General Education Competency: This course fulfills Foundational Skills Competency #1 in the Writing I area of the UCM General Education Program.

This course is equivalent to MOTR ENGL 100 Composition I in the Written Communication Knowledge Area.

ENGL 1021 - Writing Workshop (2)

A co-requisite course that focuses on providing additional support for succeeding in ENGL 1020. Provides intensive instruction in a small workshop setting that allows for further practice in writing coherent paragraphs and essays for specific audiences through close instruction on drafting, revising, and editing, and instruction in grammar, mechanics, and usage. Corequisite(s): ENGL 1020

ENGL 1030 - Composition II GE (3)

Advanced writing involving research and the construction of academic arguments. Prerequisite(s): ENGL 1020 or equivalent. Fall, Spring, Summer.

UCM General Education Competency: This course fulfills Foundational Skills Competency #1 in the Writing II area of the UCM General Education Program.

This course is equivalent to MOTR ENGL 200 Composition II in the Written Communication Knowledge Area.

ENGL 1080 - Advanced Composition GE (3)

The logic and rhetoric of expository writing taught at an advanced level, involving research. Prerequisite(s): placement according to University policy applies. Fall, Spring, Summer.

UCM General Education Competency: This course fulfills Foundational Skills Competency #1 in the Writing II area of the UCM General Education Program.

ENGL 1180 - Spoken English as a Second Language (3)

Guided practice for non-native English speakers in comprehending and producing oral English for academic purpose. *May be repeated for a maximum of 6 semester hours.* Fall, Spring.

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(s): ENGL 1180 or consent of the English as a Second Language Committee. Fall, Spring.

ENGL 2010 - Introduction to Reading Poetry and Drama GE (3)

Introduces students to techniques of close-reading and critical writing about literature. Surveys a wide range of authors, forms, and periods. Prerequisite(s): ENGL 1020 and (ENGL 1030 or CTE 3060); or ENGL 1080 with a grade of C or higher. Fall, Spring.

UCM General Education Competency: This course fulfills Knowledge Competency #6 and reinforces Foundational Skills Competency #1 in the Literature area of the UCM General Education Program.

ENGL 2020 - Introduction to Reading Fiction GE (3)

Introduces students to techniques of close-reading and critical writing about literature. Surveys a wide range of authors, forms, and periods. Prerequisite(s): ENGL 1020 and (ENGL 1030 or CTE 3060); or ENGL 1080 with a grade of C or higher. Fall, Spring.

UCM General Education Competency: This course fulfills Knowledge Competency #6 and reinforces Foundational Skills Competency #1 in the Literature area of the UCM General Education Program.

ENGL 2050 - Creative Writing (3)

Introduces students to terminology and techniques in writing and analyzing poetry and fiction; lecture and workshop format. Fall, Spring.

ENGL 2051 - The Writer's Voice: Introduction to Poetry Writing (3)

Introduces students to terminology and techniques in writing and analyzing the poetry of personal expression; lecture and workshop format.

ENGL 2052 - Performing the Word: Introduction to Lyrical Writing (3)

Introduces students to terminology and techniques in writing and analyzing the lyrical poetry from Sappho to Hip Hop; lecture and workshop format.

ENGL 2053 - Writing Short: Introduction to Prose Poetry, Flash Fiction, and Lyric Essays (3)

Introduces students to terminology and techniques in writing and analyzing prose poetry, flash fiction, and lyric essays; lecture and workshop format.

ENGL 2054 - Introduction to Fiction Writing (3)

Introduces students to terminology and techniques in writing and analyzing fiction; lecture and workshop format.

ENGL 2200 - American Literature to 1865 GE (3)

An introduction to major American authors and works from the colonial period to the Civil War. Prerequisite(s): ENGL 1020 and (ENGL 1030 or CTE 3060); or ENGL 1080 with a grade of C or higher. Fall, Spring, Summer.

UCM General Education Competency: This course fulfills Knowledge Competency #6 and reinforces Foundational Skills Competency #1 in the Literature area of the UCM General Education Program.

This course is equivalent to MOTR AMLT 101 American Literature I in the Humanities & Fine Arts Knowledge Area.

ENGL 2205 - American Literature 1865 to Present GE (3)

An introduction to major American authors and works from the Civil War to the present. Prerequisite(s): ENGL 1020 and (ENGL 1030 or CTE 3060); or ENGL 1080 with a grade of C or higher. Fall, Spring, Summer.

UCM General Education Competency: This course fulfills Knowledge Competency #6 and reinforces Foundational Skills Competency #1 in the Literature area of the UCM General Education Program.

This course is equivalent to MOTR AMLT 102 American Literature II in the Humanities & Fine Arts Knowledge Area.

ENGL 2210 - British Literature to 1798 GE (3)

An introduction to major British authors and works from 700 to 1798. Prerequisite(s): ENGL 1020 and (ENGL 1030 or CTE 3060); or ENGL 1080 with a grade of C or higher. Fall, Spring, Summer.

UCM General Education Competency: This course fulfills Knowledge Competency #6 and reinforces Foundational Skills Competency #1 in the Literature area of the UCM General Education Program.

This course is equivalent to MOTR BRLT 101 British Literature I in the Humanities & Fine Arts Knowledge Area.

ENGL 2215 - British Literature 1798 to Present GE (3)

An introduction to major British authors and works from 1798 to the present. Prerequisite(s): ENGL 1020 and (ENGL 1030 or CTE 3060); or ENGL 1080 with a grade of C or higher. Fall, Spring, Summer.

UCM General Education Competency: This course fulfills Knowledge Competency #6 and reinforces

Foundational Skills Competency #1 in the Literature area of the UCM General Education Program.

This course is equivalent to MOTR BRLT 102 British Literature II in the Humanities & Fine Arts Knowledge Area.

ENGL 2220 - World Masterpieces GE (3)

Major works of world literature, excluding British and American. Prerequisite(s): ENGL 1020 and (ENGL 1030 or CTE 3060); or ENGL 1080 with a grade of C or higher. Fall, Spring, Summer.

UCM General Education Competency: This course fulfills Knowledge Competency #6 and reinforces Foundational Skills Competency #1 in the Literature area of the UCM General Education Program.

This is a professional education course.

ENGL 2230 - Literature and Film (3)

Reading and discussion of selected novels and film scripts combined with laboratory viewing sessions. Offered as needed.

ENGL 2240 - Literature and the Arts (3)

A course relating literature to the arts of painting, sculpture, architecture, music, and the dance. Offered as needed.

ENGL 2270 - Fiction by Women Around the World (3)

Novels and short stories by women around the globe. Offered as needed.

ENGL 2290 - Science Fiction and Fantasy (3)

An introduction to science fiction and fantasy. Offered as needed.

ENGL 2830 - Literature for Adolescents (3)

Reading course intended for those who will teach high school English. Spring.

This is a professional education course.

ENGL 3040 - Advanced Rhetoric (3)

Practice in the devices of effective writing. Spring.

This is a professional education course.

ENGL 3051 - The Art of Poetry: Intermediate Poetry Workshop (3)

Poetry writing at an intermediate level; written and oral analysis of students' creative work; preparation of individualized portfolio (may include research); workshops. Prerequisite(s): ENGL 2050, ENGL 2051, ENGL 2052, or ENGL 2053.

ENGL 3052 - Intermediate Fiction Writing (3)

Fiction writing at the intermediate level; written and oral analysis of students' creative work; preparation of individualized portfolio; workshops. Prerequisite(s): ENGL 2050 or ENGL 2054.

ENGL 3110 - English Grammar (3)

A comparative study of English grammars with strong emphasis on traditional grammar and including structural and transformational approaches.

ENGL 3120 - History of English Language (3)

Growth and nature of the English language. Fall.

ENGL 3230 - Special Topics in Gothic Literature (3)

Designed to cover topics in the literature of horror and the supernatural of interest to English majors and non-majors. Offered as needed.

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. Fall, Spring.

This is a professional education course.

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. Offered as needed.

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(s): approval of school chair. Offered as needed.

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. Prerequisite(s): ENGL 3051.

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. Prerequisite(s): ENGL 3052.

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. Prerequisite(s): ENGL 2050, ENGL 2051, ENGL 2052, ENGL 2053, or ENGL 2054. Offered as needed.

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(s): Consent of instructor. Spring.

ENGL 4055 - Writing Genre Fiction (3)

Explores form and formula in genre-writing; examines masterpieces of fantasy, mystery, horror, and science fiction from the writers' perspective as students attempt to write these forms. Prerequisite(s): ENGL 2050 and ENGL 3052. Offered as needed.

ENGL 4056 - Special Topics in Creative Writing (3)

Individual or group work by qualified students in creative writing. *May be repeated for a maximum of 6 semester hours.* Prerequisite(s): ENGL 2050, ENGL 2051, ENGL 2052, ENGL 2053, or ENGL 2054. Offered as needed.

ENGL 4061 - Advanced Technical Writing (3)

Focus on the theories of effective technological communication, including audience analysis and rhetorical and organizational communication theories. Includes exposure to editing types and writing styles common in industry practice. Prerequisite(s): CTE 3060. Fall.

ENGL 4062 - Senior Capstone: Professional Ethics and Service Learning in Technical Writing (3)

Focus on the ethics of technical writing: providing honest, accurate, and usable information, which will warn users of dangerous processes; understand the legal expectations of technical writers; and reconciling personal and professional ethics. Encourages internships. Prerequisite(s): ENGL 4061. Spring.

ENGL 4110 - Linguistics (3)

Introduction to the study of language as a system of human communication. This course is co-listed with ENGL 5410.

This is a professional education course.

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. This course is co-listed with ENGL 5420.

This is a professional education course.

This is a sustainability course.

ENGL 4240 - Senior Capstone in Literature (3)

Senior seminar devoted to a core topic, theory, or figure(s) in literature. Prerequisite(s): senior standing or permission of the instructor. Spring.

ENGL 4310 - Chaucer (3)

Life and times of Chaucer with extensive reading in his major works. This course is co-listed with ENGL 5310.

ENGL 4330 - Renaissance English Writers (3)

Literary figures of the Elizabethan and Jacobean periods, excluding Shakespeare. This course is co-listed with ENGL 5330.

ENGL 4340 - Old and Middle English Literature (3)

Literary genres and contributions from Beowulf to 1500 (excluding Chaucer). This course is co-listed with ENGL 5340.

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. This course is co-listed with ENGL 5360. Fall, Spring.

ENGL 4390 - Special Topics in Medieval & Renaissance Literature (3)

Study, analysis, and interpretation of special topics in Medieval and Renaissance literature. This course is co-listed with ENGL 5390.

ENGL 4450 - The Age of Milton (3)

English poetry, prose, and drama of the Puritan and Restoration times. This course is co-listed with ENGL 5450.

ENGL 4460 - Wits and Satirists: 1660-1800 (3)

Fiction, poetry, essays and drama during the times of Pope and Johnson. This course is co-listed with ENGL 5460.

ENGL 4490 - Special Topics in 17th and 18th Century Literature (3)

Study, analysis, and interpretation of special topics in seventeenth and eighteenth century literature.

ENGL 4500 - Nineteenth Century English Novel (3)

Representative novels from Austen through Gaskell. This course is co-listed with ENGL 5500.

ENGL 4510 - Romantic Poets and Essayists (3)

Major poets and essayists of the English Romantic period. This course is co-listed with ENGL 5510.

ENGL 4540 - Victorian Poetry (3)

Representative poetry of the British Victorian period. This course is co-listed with ENGL 5540.

ENGL 4560 - British Women Writers (3)

Study of major works by British women writers, with an introduction to feminist criticism. This course is co-listed with ENGL 5560.

ENGL 4590 - Special Topics in 19th Century Literature (3)

Study, analysis, and interpretation of special topics in nineteenth century literature. This course is co-listed with ENGL 5590.

ENGL 4610 - American Renaissance (3)

The works of Emerson, Hawthorne, Thoreau, and Melville. This course is co-listed with ENGL 5610.

ENGL 4620 - Early American Literature (3)

Major figures of colonial, federal, and early nineteenth century literature. This course is co-listed with ENGL 5620

ENGL 4640 - American Realists and Naturalists (3)

Works of Twain, Howells, James, Dreiser, Chopin, and Crane. This course is co-listed with ENGL 5640.

ENGL 4660 - Women Writers of the United States (3)

Study of major works by women writers of the United States, with an introduction to feminist criticism. This course is co-listed with ENGL 5660.

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. This course is co-listed with ENGL 5670.

This is a professional education course.

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. This course is co-listed with ENGL 5680. Fall.

This is a professional education course.

ENGL 4690 - Special Topics in Traditionally Underrepresented Literature (3)

Study, analysis, and interpretation of special topics in traditionally underrepresented literature. This course is co-listed with ENGL 5690.

ENGL 4700 - British Fiction 1890 to Present (3)

Representative fiction by major British authors from 1890 to the present. This course is co-listed with ENGL 5700.

ENGL 4710 - Modern American Fiction (3)

Representative fiction by major American writers from 1900 to the present. This course is co-listed with ENGL 5710.

ENGL 4720 - Modern British Poetry (3)

British poetry of the twentieth century. This course is co-listed with ENGL 5720.

ENGL 4730 - Modern American Poetry (3)

American poetry of the twentieth century. This course is co-listed with ENGL 5730.

ENGL 4740 - Modern Drama (3)

Readings in the significant drama of the twentieth and twenty-first centuries. This course is co-listed with ENGL 5740.

ENGL 4750 - Postcolonial Literature (3)

Twentieth and twenty-first century literature of countries which were formerly European colonies. This course is co-listed with ENGL 5750.

ENGL 4790 - Special Topics in 20th and 21st Century Literature (3)

Study, analysis, and interpretation of special topics in twentieth and twenty-first century literature. This course is co-listed with ENGL 5790.

ENGL 4810 - Seminar in Teaching English (2-3)

This course is co-listed with ENGL 5910. *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 max of 6 semester hours. Offered as needed.*

ENGL 4825 - Assessment and Professionalism in TESL (3)

Exploration of guidelines for ESL services, support, and advocacy; standards for achievement; and interpretation of formal and informal assessments of students, courses, and programs.

ENGL 4835 - Second Language Acquisition (3)

Survey of second-language acquisition research and theories and their implications for pedagogy. This course is co-listed with ENGL 5120. Students who have earned credit in ENGL 4835 may not also take ENGL 5120 for graduate credit.

ENGL 4840 - Composition and Evaluation (3)

Techniques of writing and evaluating composition for those planning to teach. This course is co-listed with ENGL 5940. Fall.

This is a professional education course.

ENGL 4890 - Methods of Teaching English (3)

Prerequisite(s): Admission to Teacher Education Program; double majors must take a methods course for each major. Fall, Spring.

This is a professional education course.

ENGL 4972 - Content Literacy in Secondary English/Language Arts (4)

Addresses ways to improve and enhance English and Language Arts students' reading comprehension and writing proficiency.

This is a professional education course.

ENGL 4973 - Classroom Management in Secondary English/Language Arts (1)

Addresses strategies for creating a classroom environment that facilitates effective learning in the field of English and Language Arts.

This is a professional education course.

ENGL 4974 - Assessment in Secondary English/Language Arts (1)

Strategies for the creation and use of assessment of genuine learning in the English or Language Arts classroom.

This is a professional education course.

ENGL 4990 - Special Projects in English (1-3)

This course is co-listed with ENGL 5990. *May be repeated for a maximum of 6 semester hours.* Offered as needed.

ENT 1501 - Youth Entrepreneurship Program (2)

Provides knowledge to start and maintain a business, helps students understand how to be an entrepreneurial employee, and informs students on business related careers. The curriculum is designed to give real world experience and knowledge to potential entrepreneurs and innovators from K-12 in a summer

program environment. Along with specific business skills students will be encourage to pursue higher education. Prerequisite(s): Enrollment by summer program director in the Youth Entrepreneurship Program.

ESE 1200 - Foundations of Leadership Skills GE (3)

Aims to introduce students to basic business concepts and begin to develop the analytical, communication, and research skills necessary for success as a leader.

UCM General Education Competency: This course fulfills Knowledge Competency #9 and Foundational Skills Competency #4 in the Engagement area of the UCM General Education Program.

ESE 1300 - Introduction to Entrepreneurship and Business (3)

Introduces several types of entrepreneurship (start-up, corporate intrapreneurship, family business) as well as external and internal forces that effect the decisions in any business venture. May not be taken for credit by students who have completed in excess of 12 semester hours of B.S.B.A. courses.

ESE 3335 - Entrepreneurial Internship (1-3)

As a result of participating in the Entrepreneurship and Social Enterprise Internship / Internship course, students will be able to: apply theory and classroom learning to an actual business environment; examine and test their ability to launch a product or service venture; gain practical work experience in their product or service venture's industry or in an entrepreneurial environment; develop communication and human relations skills. An additional fee is associated with this course.

ESE 3350 - Special Projects in Entrepreneurship (1-3)

Junior level course in entrepreneurship or social entrepreneurship theory, practice, methods and strategies taught on an individual or group basis to advanced entrepreneurship students. *May be repeated for a maximum of 6 semester hours.* An additional fee is associated with this course.

ESE 3710 - Entrepreneurial Business Planning (3)

Prepares learners to design and evaluate new business ventures, continue family ventures, or engage in small business. Participants develop the ability to identify innovative product and/or service opportunities or to exploit existing business models in support of a new business. Students interact with successful entrepreneurs from different industries who give workshops on their area of expertise. Each business plan includes thorough research and detailed financial projections for revenue generation and cost structure. Hands-on experiences include applying classroom concepts to real-world products or services. Plans made in this class are further developed and launched in Commercialization. An additional fee is associated with this course. Spring.

This is a sustainability course.

ESE 3715 - Entrepreneurial Business Planning Lab (1)

Teams of entrepreneurial students participate actively each week on-site with ESE faculty and senior students to gain experience in growing and running a new venture. Students will focus on urgent business aspects of the companies developed and launched through course ESE 3710, ESE 3720 and ESE 4710. Such aspects include reaching the target market, choice of sales approach to initial customers, changes to

initial business strategy, and day to day operations, management and administration. Students are expected to work 4-6 hours weekly. Corequisite(s): ESE 3710. An additional fee is associated with this course.

ESE 3720 - Social Enterprise for Entrepreneurs (3)

Teams of students recognize and analyze elements of business ventures such as social responsibility and social enterprise. Students apply entrepreneurial principles to organize, create, and manage a sustainable venture to make social change. Whereas a business entrepreneur typically measures performance in profit and return, a social entrepreneur assesses success in terms of the impact s/he has on society. Students learn to work and make change in a variety of sectors (private, not-for-profit, and government) by creating a new social enterprise or by working with an existing student company. An additional fee is associated with this course. Spring.

This is a sustainability course.

ESE 3725 - Social Enterprise Lab (1)

Teams of entrepreneurial students participate actively one day a week on-site with ESE faculty and senior students to gain experience in growing and running a new venture. Students will focus on urgent social responsibility aspects of the companies developed and launched through course ESE 3710, ESE 3720 and ESE 4710. Such aspects include creating a sustainable social enterprise, creating a venture that promotes social justice, and implementing social responsibility in all business practices. Students are expected to work 4-6 hours weekly. Corequisite(s): ESE 3720. An additional fee is associated with this course.

ESE 3750 - Special Projects in Entrepreneurship (1-3)

Junior level course in entrepreneurship or social entrepreneurship theory, practice, methods and strategies taught on an individual or group basis to advanced entrepreneurship students. *May be repeated for a maximum of 6 semester hours.* An additional fee is associated with this course.

ESE 4200 - Entrepreneurial Approach to Leadership Skills (1)

Leadership is the ability to influence a group of people towards a goal. Using an entrepreneurial approach, students ideate, create, plan and implement a service project. The students' vision is imparted through their leadership skills and management of volunteers as their project is completed. The heart of this course lies in repeated coaching and real-time feedback students receive on their leadership activities. Feedback originates from self-analysis, peer review and from advisors at the National Society of Leadership and Success (NSLS). You need not be in a position of authority to take this course. You must be a member of the NSLS, have completed the first two levels of NSLS induction and submitted your proof of certification in those levels to the School of Business Administration: Division of Business Strategy chair and UCM and TK 20 prior to enrollment. Prerequisite(s): ESE 1200. An additional fee is associated with this course.

ESE 4710 - Commercialization (3)

Designed to prepare students to design, prototype and commercialize new products or services. Will examine the commercialization process including: Research, Prototype Development, Commercialization Paths, Early Stage Marketing, Intellectual Property, & Licensing. Other related topics include business plan issues, such as business entity, cash flow, sources of money, and pitching to investors. Students must bring their own business product or service plans to work on. Each student will launch their own business idea. Students are encouraged to enroll in both ESE 4710 and ESE 3845 during the same semester. Prerequisite(s): ESE 3710. An additional fee is associated with this course. Fall.

This is a sustainability course.

ESE 4715 - ESE Commercialization Lab (1)

Teams of entrepreneurial students participate actively one day a week on-site with ESE faculty and senior students to gain experience in growing and running a new venture. Students will gain hands-on leadership experience in launching and running a startup business. Such experience may include: choosing initial markets, approaching new customers, and communicating product value. Students are expected to work 4-6 hours weekly. Corequisite(s): ESE 4710. An additional fee is associated with this course.

ESE 4850 - Entrepreneurial or Social Venture Start-up (1-3)

As an option within the Entrepreneurship and Social Enterprise sequence of courses, students will be able to get continuing support for their recently launched enterprise in ESE 4710 Commercialization. Students will work directly with faculty and experienced entrepreneurs on the sustainability and growth of the new business. An additional fee is associated with this course.

FCSE 2000 - FCS Student Organizations (1)

An introduction to Family Careers and Community Leaders of America (FCCLA) student organization, its structure, benefits, and programs available for public schools of Missouri.

FCSE 3120 - Family Resource Management (3)

Effective and efficient management of family resources to maximize personal and family satisfactions. Fall, Spring, Summer.

FCSE 3710 - Foundations of Family 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. Prerequisite(s): EDFL 2100 and FLDX 2150. Spring.

FCSE 4000 - Special Projects in Family and Consumer Sciences (1-3)

Investigation of contemporary problems and issues in family and consumer services. This course is co-listed with FCSE 5000. *May be repeated for a maximum of 6 semester hours.*

FCSE 4740 - Methods of Teaching Family and Consumer Sciences (3)

Prepares the student to teach in family and consumer sciences by assisting in the development of instructional methods and techniques for student-oriented classroom instruction. This course is co-listed with FCSE 5840. Prerequisite(s): Admission to Teacher Education Program, 15 semester hours of Family and Consumer Sciences and FCSE 3710 with a grade of C or better.

This is a professional education course.

FAME 1400 - Principles of Fashion Merchandising (3)

Students will explore all segments of the fashion industry and identify careers within each area. An overview of fashion products from concept to consumer is covered with an emphasis on consumer demand and trend cycles for wholesale and retail markets.

FAME 1445 - Fashion Seminar 1 (1)

Students will start to develop leadership skills, relationships with peers and faculty and a plan for a successful career at UCM and beyond. Participation in committee work, professional organizations, and service learning will help students learn to communicate effectively, analyze situations and make informed decisions. Prerequisite(s): freshman standing.

FAME 1450 - Fundamentals of Apparel Design and Construction (3: 2 lecture, 1 lab)

An introductory course with an emphasis on the construction of apparel goods using computerized equipment and software. Students will apply the elements and principles of design to basic garment components and fit. Students will create projects that exhibit creativity and quality workmanship in a laboratory setting. An additional fee is associated with this course.

FAME 2425 - Apparel Quality Analysis (3)

Students will learn the importance of quality assurance, product standards, tolerances, and specifications in producing quality apparel products. Based on current industry standards and terminology, students will compare and evaluate commercially-produced apparel products.

FAME 2440 - Professional Work Experience (1-3)

Supervised work experience in an approved business establishment with an emphasis on textile, apparel and/or accessory merchandise. Students broaden their knowledge base and develop skills that apply to career interests within a fashion-related business. *May be repeated for a maximum of 6 semester hours.*

FAME 2442 - Textile Science (3)

This class explores the characteristics of fibers, yarns, fabric construction, and finishing processes. Textile behavior, performance and maintenance as they relate to end products and consumer use will be addressed. An additional fee is associated with this course.

FAME 2445 - Fashion Seminar 2 (1)

Students will continue to develop leadership skills, relationships with peers and faculty and a plan for a successful career at UCM and beyond. Continued participation in committee work, professional organizations, and service learning will help students learn to communicate effectively, analyze situations and make informed decisions. Prerequisite(s): sophomore standing.

FAME 2450 - Advanced Apparel Design & Construction (3: 2 lecture, 1 lab)

Students will create garments with advanced garment construction techniques and fabrics using specialized equipment in a laboratory setting. Knitwear, tailoring, pattern/ fit modification, finishing, and application of specialized techniques will be addressed. Prerequisite(s): FAME 1450. An additional fee is associated with this course.

FAME 3415 - Product Development for Consumers (3)

Students will study diverse target markets and their fashion needs as related to price and product segments. Apparel products that meet consumer needs will be developed using current computer software.
Prerequisite(s): FAME 2425.

FAME 3430 - Professional Image Management (3)

Image management is designed for individual professional development in a respective career field. This course is designed to prepare students for internships and career paths with an emphasis on resume development, best business dress practices, interviewing techniques, and appropriate etiquette rules. This course will also challenge individual decision-making processes through written representation and oral presentation for total image management.

FAME 3434 - Fashion History of Costume GE (3)

This class will follow the evolution of dress from the earliest beginnings through the twenty-first century with an emphasis on western civilizations. The impact of social, economic, political, environmental, and religious customs associated with dress will be analyzed.

UCM General Education Competency: This course fulfills Knowledge Competency #8 and reinforces Foundational Skills Competency #4 in the Social & Behavioral Sciences area of the UCM General Education Program.

FAME 3435 - Fashion Buying (3)

Through a buying simulation, students will apply market research to create merchandising, mark-up, mark-down, and sales plans using wholesale mathematic formulas. Current computer software will be utilized to create appropriate documents used by buyers. Prerequisite(s): FAME 2425, ACCT 1101.

FAME 3440 - Visual Merchandising and Fashion Promotion (3)

Students will evaluate and practice visual merchandising strategies for apparel, accessories, and home fashions to include windows, walls, and store layouts. In addition, students will learn about other fashion promotion strategies including signing, special event (fashion show) production, and print media.

FAME 3442 - Sustainability for Consumer Products GE (3)

Students will gain knowledge about sustainable practices and an awareness of how companies can reduce their environmental impact while increasing profits. This class will also address the production and sale of sustainable textile products used by consumers.

UCM General Education Competency: This course fulfills Knowledge Competency #9 and Foundational Skills Competency #4 in the Engagement area of the UCM General Education Program.

This is a sustainability course.

FAME 3445 - Fashion Seminar 3 (1)

Students will continue to develop leadership skills, building relationships with peers and faculty, and a plan for a successful career. Continued participation in committee work, professional organizations, and service learning will help students practice communicating effectively, analyzing situations and making informed decisions. Prerequisite(s): junior standing.

FAME 4400 - Branding and Fashion Technology (3)

Students will understand the evolution of brands and evaluate cohesive branding strategies. Current industry technology will be used to research branding trends and create branding materials for digital global markets using hands-on engaged learning. Prerequisite(s): GRAP 1010.

FAME 4410 - Materials for Interior Furnishings (3)

A concentrated study of materials used for residential and commercial environments that include window and wall coverings, upholstered furniture, floor coverings, linens and accessories. Textile fabrics appropriate for various architectural period styles will be covered as well as trends for sustainable products. This course is co-listed with FAME 5410 An additional fee is associated with this course.

FAME 4414 - Advanced Technical Problems in Fashion (3: 3 lecture, 0 lab)

Individual or group work on advanced technical problems in Fashion/Apparel Merchandising. Provide exploration of content not available through normal course offerings. This course is co-listed with FAME 5414. *May be repeated for a maximum of 6 semester hours.* Prerequisite(s): minimum cumulative GPA of 2.50, written contract/proposal with objectives/learning competency and written school consent. An additional fee is associated with this course.

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. This course is co-listed with FAME 5424. Prerequisite(s): FAME 3430 and 3 semester hours of clothing construction. An additional fee is associated with this course.

FAME 4425 - Fashion Entrepreneurship (3)

Students will create a business plan based on fashion industry trends and consumer needs. Current computer software will be used to create retail sales plans and analyze profit/loss statements. Fashion retail personnel needs and store operations and management strategies will also be addressed. This course is co-listed with FAME 5425. Prerequisite(s): FAME 3435.

FAME 4430 - Merchandising Applications (3)

Builds upon the necessary understanding, knowledge, and working applications of the basics for profitable fashion merchandising. Prerequisite(s): ACCT 1101. Corequisite(s): FAME 4444.

FAME 4433 - Sourcing in the Global Market (3)

An analysis of economic, political, and cultural systems affecting international textile and apparel trade. An emphasis on sourcing, corporate social responsibility, technology, government policies, and relationships in the global fashion marketplace. This course is co-listed with FAME 5433.

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. This course is co-listed with FAME 5442. Prerequisite(s): CHEM 1104 and FAME 2442. An additional fee is associated with this course.

FAME 4444 - Fashion Merchandising (3)

Principles and practices of fashion manufacturing and merchandising. Prerequisite(s): FAME 3415, MKT 3410. Corequisite(s): 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. This course is co-listed with FAME 5445. Prerequisite(s): senior standing. An additional fee is associated with this course.

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. This course is co-listed with FAME 5450. *May be repeated for a maximum of 6 semester hours.* Prerequisite(s): FAME 2442.

FAME 4490 - Internship in Fashion and Apparel Merchandising (1-3)

Students will participate in a management training program to broaden intellectual awareness while gaining practical fashion industry experience. Performance-based goals and learning experiences will be evaluated by a company supervisor in coordination with the faculty instructor. This course is co-listed with FAME 5490. *May be repeated for a maximum of 6 semester hours.* Prerequisite(s): FAME 2440.

FLDX 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. Includes 30 hours of public school classroom observation. Students must have a background check on file. There is a fee for the background check. Corequisite(s): EDFL 2100.

This is a professional education course.

FLDX 3000 - Field Experience in the Content Area (1)

A midlevel practicum for K-12 and Secondary teacher education students. Includes 30 hours of public school classroom observation. Students must have a background check on file. There is a fee for the background check. Prerequisite(s): EDFL 2100, EDFL 2240, FLDX 2150, and EDSP 2100. Corequisite(s): Should be taken concurrently with professional education courses. Fall, Spring.

This is a professional education course.

FLDX 4395 - Student Teaching in Special Education I (1-12)

Application for Student Teaching must be made with the Director of Clinical Services and Certification. Requires a directed field experience. Prerequisite(s): special methods course in special education in one or more certification areas (EDSP 4423, EDSP 4440, or EDSP 4450). Should be taken with FLDX 4396 or FLDX 4468 or FLDX 4495.

This is a professional education course.

FLDX 4396 - Student Teaching in Special Education II (1-12)

Requires a directed field experience. Corequisite(s): FLDX 4395.

This is a professional education course.

FLDX 4468 - Student Teaching Secondary II (1-12)

Taken in the Professional Semester for all secondary education majors and all K-12 majors. This course is co-listed with EDFL 5468. Prerequisite(s): Admission to Teacher Education Program. Corequisite(s): FLDX 4495 or FLDX 4595 .

This is a professional education course.

FLDX 4493 - Student Teaching Early Childhood (1-12)

To be taken in the Professional Semester for early childhood majors and double majors in elementary education. Prerequisite(s): Admission to Teacher Education Program; cumulative GPA of 2.50; ECEL 4400. Should be taken concurrently with FLDX 4496 or FLDX 4395, depending on the sequence followed. (See description of Professional Education Semester.)

This is a professional education course.

FLDX 4495 - Student Teaching Elementary I (1-12)

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. Prerequisite(s): Admission to Teacher Education Program; ECEL 4400. Should be taken concurrently with FLDX 4496 or FLDX 4498 or FLDX 4468 or FLDX 4395, depending on the sequence followed. (See description of Professional Education Semester.)

This is a professional education course.

FLDX 4496 - Student Teaching Elementary II (1-12)

To be taken in the Professional Semester. For elementary classroom majors and majors which provide K-12 certification (except speech pathology). Prerequisite(s): Admission to Teacher Education Program. Corequisite(s): FLDX 4495 or FLDX 4595.

This is a professional education course.

FLDX 4497 - Student Teaching Middle School I (1-12)

To be taken in the Professional Semester. For middle school majors, double majors in elementary education, special education, or secondary education. Prerequisite(s): Admission to Teacher Education Program; MLED 4340. Students must have a background check on file. Should be taken concurrently with FLDX 4498 or FLDX 4468 or FLDX 4496 or FLDX 4395, depending on sequence followed.

This is a professional education course.

FLDX 4498 - Student Teaching Middle School II (1-12)

To be taken in the Professional Semester. For middle school majors. Prerequisite(s): Admission to Teacher Education Program; a background check must be on file; should be taken concurrently with FLDX 4497 or FLDX 4495 or FLDX 4595 or FLDX 4395.

This is a professional education course.

FLDX 4595 - Student Teaching Secondary I (1-12)

To be taken in the Professional Semester. For secondary and modern language majors. Should be taken concurrently with FLDX 4468 or FLDX 4496 or FLDX 4498, depending on the sequence followed. Prerequisite(s): Admission to Teacher Education Program; EDFL 4970.

This is a professional education course.

FLDX 4970 - Field Experience II in the Content Area (1)

Requires a minimum of 50 hours of co-teaching with a public school classroom teacher. Should be taken no earlier than one semester prior to student teaching. Students must have a background check on file. There is a fee for the background check. Prerequisite(s): Admission to Teacher Education Program. Corequisite(s): EDFL 4970.

This is a professional education course.

FIN 1820 - Personal Finance GE (3)

For the student who desires information on managing his/her own personal income. Fall, Spring.

UCM General Education Competency: This course fulfills Knowledge Competency #9 and Foundational Skills Competency #4 in the Engagement area of the UCM General Education Program.

FIN 2801 - Business Statistics I (3)

Emphasizes the statistical foundation for the analysis of business and economic data with concentration on the areas of descriptive statistics, probability, probability distributions, and sampling distributions in order to provide the groundwork for further study in statistical analysis. Prerequisite(s): MATH 1111 or equivalent. Fall, Spring, Summer.

FIN 3801 - Business Statistics II (3)

Provides students with basic statistical inference procedures of estimation. It covers confidence intervals, hypothesis testing, simple and multiple linear regression analysis directed towards business applications. Prerequisite(s): FIN 2801. An additional fee is associated with this course. Fall, Spring, Summer.

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. An additional fee is associated with this course.

FIN 3835 - Internship in Finance (1-6)

Opportunity for students to gain theoretical knowledge and practical application within a particular field of specialization. May be repeated with consent of school chair and internship director. *May be repeated for a maximum of 9 semester hours.* Prerequisite(s): Admission to the BSBA program, 60 semester hours and overall GPA of 2.50 or above, or consent of internship director. An additional fee is associated with this course. Fall, Spring, Summer.

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. Prerequisite(s): ACCT 1101 and FIN 2801. An additional fee is associated with this course. Fall, Spring, Summer.

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(s): FIN 3850, or a declared major in Actuarial Science and Mathematics with completion of ACST 4510. An additional fee is associated with this course. Fall, Spring.

FIN 3881 - Financial Institutions and Markets (3)

An analytic study of financial institutions, financial markets, and monetary policy. Prerequisite(s): FIN 3850 and [ECON 3020 or declared minor in Finance]. An additional fee is associated with this course. Fall, Spring.

FIN 3885 - Integrative Business Experience Practicum (3)

Students will apply concepts from the concurrent courses to their own start-up business venture and to community service. Corequisite(s): special sections of MGT 3315 , MKT 3405 and FIN 3850. An additional fee is associated with this course. Fall, Spring.

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. Prerequisite(s): FIN 3801 or concurrently and FIN 3850. Corequisite(s): FIN 3893. An additional fee is associated with this course. Fall, Spring.

FIN 3893 - Credit and Financial Statement Analysis (3)

This is an introductory course in analysis of financial statements and on short term credit analysis (i.e. solvency of loans and trade credit) and long term credit analysis (i.e. the characteristics of corporate bonds and the bond markets). Prerequisite(s): FIN 3801 or concurrently and FIN 3850. Corequisite(s): FIN 3891. An additional fee is associated with this course. Fall, Spring.

FIN 4800 - Special Projects in Finance (1-3)

Individualized or group study under the supervision of school faculty. *May be repeated for a maximum of 12 semester hours.* Prerequisite(s): consent of the instructor. An additional fee is associated with this course.

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. Prerequisite(s): ACCT 3130, FIN 3891, RMI 3803 and RMI 4804; or RMI 3803, RMI 4804, FIN 5840 and Admission to the Master of Arts in Accounting. An additional fee is associated with this course. Spring.

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(s): FIN 3891 and Admission to the B.S.B.A. program. An additional fee is associated with this course. Spring.

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. Students who earned undergraduate credit for FIN 4817 may not take FIN 5817 for graduate credit. Prerequisite(s): FIN 3850 and Admission to the B.S.B.A. program or a declared major in Actuarial Science and Mathematics with completion of ACST 4510. An additional fee is associated with this course.

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. Students who earned undergraduate credit for FIN 4820 may not take FIN 5825 for graduate credit. Prerequisite(s): FIN 3850 and Admission to the B.S.B.A. program. An additional fee is associated with this course. Spring.

FIN 4821 - Professional Financial Analysis (3)

Develop competences in financial assets, administration procedures and other areas supporting financial analysis. Upon completion students sit for the Chartered Financial Analyst Level I examination. Prerequisite(s): FIN 4815, FIN 4817, FIN 4820, ACCT 3102. An additional fee is associated with this course.

FIN 4830 - Directed Readings in Finance (3)

Intensive study of significant financial topics. An additional fee is associated with this course.

FIN 4831 - Student Managed Investment Fund (3)

The course provides students advanced hands-on experience in stock analysis and asset valuation at a professional level, selecting stocks and investing 'real money'. This course is co-listed with FIN 5831. *May be repeated for a maximum of 6 hours with consent of instructor.* Prerequisite(s): FIN 3891, FIN 3893, application and consent of the instructor. An additional fee is associated with this course. Fall, Spring, Summer.

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(s): FIN 3861 and Admission to the B.S.B.A. program. An additional fee is associated with this course.

FIN 4880 - Bank Management (3)

Study and analysis of the problems of management of commercial banks with an emphasis on investment and loan portfolios. This course is co-listed with FIN 5880. Prerequisite(s): FIN 3881 or concurrently and Admission to the B.S.B.A. program. Fall.

FLYA 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. An additional fee is associated with this course. Fall, Spring, Summer.

FLYA 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(s): FLYA 1320. An additional fee is associated with this course. Fall, Spring, Summer.

FLYA 2313 - 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(s): Private Pilot Certificate. An additional fee is associated with this course. An additional fee is associated with this course. Fall, Spring, Summer.

FLYA 2314 - 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(s): FLYA 2313. An additional fee is associated with this course. An additional fee is associated with this course. Fall, Spring, Summer.

FLYA 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(s): Private Pilot Certificate. An additional fee is associated with this course. An additional fee is associated with this course. Fall, Spring, Summer.

FLYA 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(s): FLYA 3310. An additional fee is associated with this course. Fall, Spring, Summer.

FLYA 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(s): FLYA 3311. An additional fee is associated with this course. Fall, Spring, Summer.

FLYA 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(s): FLYA 2314. An additional fee is associated with this course. Fall, Spring, Summer.

FLYA 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(s): FLYA 3315. An additional fee is associated with this course. Fall, Spring, Summer.

FLYA 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(s): FLYA 3316. An additional fee is associated with this course. Fall, Spring, Summer.

FLYA 3330 - Multi-Engine Certificate (1)

Classroom and laboratory instruction to provide aeronautical knowledge and skills for multi-engine pilot certification. Prerequisite(s): FLYA 2314. An additional fee is associated with this course. Fall, Spring, Summer.

FLYA 3360 - Flight Instructor Lab - Airplane (1)

During this course, the student will learn the analysis and performance of all the maneuvers required for private and commercial pilot certification from the right seat of the training aircraft. In addition the student will acquire the instructional knowledge of the elements of each of the maneuvers and procedures including the recognition, analysis, and correction of common student errors. An additional fee is associated with this course.

FLYA 3362 - Flight Instructor - Instrument (1)

Instruction, flight training, and practice teaching to obtain the aeronautical skills and knowledge necessary for Flight Instructor, Instrument certificate. Prerequisite(s): AVIA 3360. An additional fee is associated with this course.

FLYA 3364 - Flight Instructor - Multi-Engine (1)

Instruction, flight training and practice teaching to obtain the aeronautical skills and knowledge necessary for the Multi-Engine add-on to the Flight Instructor certificate. Prerequisite(s): FLYA 3330 and AVIA 3360. An additional fee is associated with this course.

FLYA 3415 - Commercial Flight D Multiengine (1)

Classroom and laboratory instruction to provide aeronautical knowledge and skills to safely operate a multiengine aircraft. This course will prepare the student for the addition of a multi-engine class onto their Private Pilot Certificate. Prerequisite(s): FLYA 3312. Fall, Spring, Summer.

FLYA 3416 - Commercial Flight E Multiengine (1)

Classroom and laboratory instruction to provide aeronautical knowledge and skills for a high performance endorsement. Both IFR and VFR cross-countries will be performed. Prerequisite(s): FLYA 3415. An additional fee is associated with this course. Fall, Spring, Summer.

FLYA 3417 - Commercial Flight F Multiengine (1)

Classroom and laboratory instruction to provide aeronautical knowledge and skills to pass the Commercial Pilot AMEL Practical Test. FA, SP, SU. Prerequisite(s): FLYA 3416. An additional fee is associated with this course. Fall, Spring, Summer.

FLYA 3430 - Single Engine Add-On (1)

Classroom and laboratory instruction to provide aeronautical knowledge and skills for single-engine addition to an existing commercial pilot certificate. Prerequisite(s): Commercial Multi-Engine Pilot Certificate. An additional fee is associated with this course. Fall, Spring, Summer.

FOOD 2320 - Sanitation and Safety (1)

Sanitation and Safety procedures, ServSafe Certification, and Hazard Analysis & Critical Control Points (HACCP) Certification.

FOOD 2322 - Food Preparation (3: 2 lecture, 1 lab)

Apply the properties, food science and preparation of grains, fruits, vegetables, milk products, protein foods, fats, sugar products, and flour mixtures through laboratory experiences. Prerequisite(s): grade of C or better in CHEM 1104. An additional fee is associated with this course. Fall, Spring, Summer.

FOOD 3332 - Quantity Food Production and Service (3: 2 lecture, 1 lab)

Principles and standard methods of quality food production, menus, and service in institutions and their application in work experience. Laboratory involves planning and preparing catered events and working at outside foodservices sites. Prerequisite(s): A grade of C or better in FOOD 2320 and FOOD 2322. Fall, Spring.

This is a sustainability course.

FOOD 3334 - Advanced Food Systems Management (4)

Organization and management in food service areas including the systems approach to foodservice organization, managing quality, the menu, food product flow and kitchen design, procurement, food production, distribution and service and safety, sanitation and maintenance, management principles, leadership & organizational change, administrative responsibilities, decision making, communication & balance, management of human & financial resources, meals satisfaction & accountability. Prerequisite(s): ACCT 1101 or ACCT 2100 or concurrent. Spring.

FOOD 4326 - Experimental Foods (3: 2 lecture, 1 lab)

An experimental approach to the study of factors which influence the behavior of foods. Group and individual experiments. This course is co-listed with FOOD 5326. Prerequisite(s): FOOD 2322 with a grade of C or better. An additional fee is associated with this course.

FREN 1201 - Elementary French I GE (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 school chair.

UCM General Education Competency: This course fulfills Knowledge Competency #6 and reinforces Foundational Skills Competency #2 in the Languages area of the UCM General Education Program.

This course is equivalent to MOTR FREN 101 French I in the Humanities & Fine Arts Knowledge Area.

FREN 1202 - Elementary French II GE (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 school chair. Prerequisite(s): FREN 1201.

UCM General Education Competency: This course fulfills Knowledge Competency #6 and reinforces Foundational Skills Competency #2 in the Languages area of the UCM General Education Program.

FREN 2201 - Intermediate French I GE (3)

Reading, conversation, vocabulary, and idiom drill. Prerequisite(s): FREN 1202.

UCM General Education Competency: This course fulfills Knowledge Competency #6 and reinforces Foundational Skills Competency #2 in the Languages area of the UCM General Education Program.

FREN 2202 - Intermediate French II GE (3)

Continuing development of the ability to use the language on the intermediate level. Prerequisite(s): FREN 2201.

UCM General Education Competency: This course fulfills Knowledge Competency #6 and reinforces Foundational Skills Competency #2 in the Languages area of the UCM General Education Program.

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 15 semester hours.* Prerequisite(s): 6 semester hours of French and consent of the school chair.

FREN 3223 - French Composition (3)

Review of grammar. Intensive practice in composition with increased attention to stylistics. Prerequisite(s): FREN 2202.

FREN 3243 - French Conversation (3)

Provides intensive drill in conversational language using culture-based materials. Prerequisite(s): FREN 2201.

FREN 3261 - French Civilization and Literature I (3)

From the origins to the eighteenth century. Prerequisite(s): FREN 2202.

FREN 3262 - French Civilization and Literature II (3)

From the eighteenth century to 1945. Prerequisite(s): FREN 2202.

FREN 4223 - Advanced French Composition (3)

Oral and written composition, review of more difficult grammatical construction and idioms. Prerequisite(s): FREN 3223.

FREN 4243 - Advanced French Grammar and Conversation (3)

Study and practice of oral advanced French conversational patterns. Review of more difficult grammatical construction and idioms. Prerequisite(s): FREN 3243.

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(s): FREN 3243.

FREN 4264 - Commercial French (3)

French commercial terminology, stressing the difference between French and American forms and practices. Prerequisite(s): FREN 3223.

FREN 4265 - The Contemporary French-Speaking World (3)

An overview of contemporary France and other French-speaking nations. Prerequisite(s): FREN 3261 or FREN 3262.

FREN 4286 - French Literature of the Nineteenth Century (3)

Romanticism, realism, and naturalism. Analysis of texts and literary theories. Prerequisite(s): FREN 3223.

FREN 4287 - French Literature of the Twentieth Century (3)

Symbolism, surrealism, and existentialism in prose, poetry and theatre. Prerequisite(s): FREN 3223.

FREN 4288 - French Translation (3)

Commercial and technical translation from French into English and English into French. Prerequisite(s): FREN 3223.

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. Prerequisite(s): FREN 3223.

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 15 semester hours.* Prerequisite(s): 18 semester hours of French and consent of school chair.

GEOG 2101 - Introduction to Sustainability GE (3)

Exploring concepts and principles of environmental, social, cultural and economic sustainability; analyzing the making of sustainable places.

UCM General Education Competency: This course fulfills Knowledge Competency #8 and reinforces Foundational Skills Competency #4 in the Social & Behavioral Sciences area of the UCM General Education Program.

This is a sustainability course.

GEOG 2212 - World Geography GE (3)

A survey of the world's major regions, examining their unique peoples, cultures, economies, and physical environments.

UCM General Education Competency: This course fulfills Knowledge Competency #8 and reinforces Foundational Skills Competency #4 in the Social & Behavioral Sciences area of the UCM General Education Program.

This course is equivalent to MOTR GEOG 101 World Regional Geography in the Social & Behavioral Sciences Knowledge Area.

This is a sustainability course.

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.

This is a sustainability course.

GEOG 3101 - Practicing Sustainability GE (3)

A critical evaluation of individual and community practices within local/global frameworks of environmental, social, cultural, and economic sustainability, using ethical reasoning, civic principles, and cultural values.

UCM General Education Competency: This course fulfills Knowledge Competency #9 and Foundational Skills Competency #4 in the Engagement area of the UCM General Education Program.

This is a sustainability course.

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 GE (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.

UCM General Education Competency: This course fulfills Knowledge Competency #9 and Foundational Skills Competency #4 in the Engagement area of the UCM General Education Program.

This is a sustainability course.

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.

This is a sustainability course.

GEOG 3270 - Research Methods in Geography (3)

An overview of and training in methods of geographic data selection, collection, and analysis.
Prerequisite(s): GEOG 2212 or GEOG 3201 or permission of instructor.

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.

This is a sustainability course.

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 4230 - Geography of Asia (3)

A systematic and regional approach to the several Asian landscapes. Emphasis is on physical geography and cultural regions.

This is a sustainability course.

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 4265 - Urban Geography (3)

Location of cities as related to other geographic phenomena. Urban units are analyzed with respect to general location theory. This course is co-listed with GEOG 5265.

GEOG 4270 - World Political Geography (3)

The historical development of the political organization of area. Theoretical aspects of political geography are emphasized.

GEOG 4291 - Conservation of Natural Resources (3)

Problems of availability, production, exploitation, appraisal, distribution, and renewability of natural resources. This course is co-listed with GEOG 5291.

This is a sustainability course.

GEOS 1004 - Introduction to Geology GE (4: 3 lecture, 1 lab)

Fundamental principles of geology. Minerals, rocks, plate tectonics, volcanoes, earthquakes, fossils & evolution of life on Earth, landscape formation by streams, glaciers, and underground water. Laboratory included. An additional fee is associated with this course.

UCM General Education Competency: This course fulfills Knowledge Competency #7 and reinforces Foundational Skills Competency #3 in the Science with a Laboratory area of the UCM General Education Program.

This course is equivalent to MOTR GEOL 100L Essentials in Geology with Lab in the Natural Sciences Knowledge Area.

This is a sustainability course.

GEOS 1100 - Physical Geography GE (3)

A survey that investigates global climates, soils, vegetation, and landforms and the causes, effects, and interactions among these elements to create unique physical environments. An additional fee is associated with this course.

UCM General Education Competency: This course fulfills Knowledge Competency #7 and reinforces Foundational Skills Competency #4 in the science non-laboratory area of the UCM General Education Program.

This course is equivalent to MOTR GEOG 100 Physical Geography in the Natural Sciences Knowledge Area.

GEOS 1112 - 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 school telescopes.

This course is equivalent to MOTR ASTR 100 Astronomy in the Natural Sciences Knowledge Area.

GEOS 1114 - Weather and Climate GE (4: 3 lecture, 1 lab)

Principles and theories of weather, climate, and other atmospheric phenomena. Included is the study of energy exchanges, winds, cloud types, precipitation forms, severe weather, generation of hurricanes, tornadoes, and mid-latitude storms, pollution, climate change and the cultural implications of weather and climate. Due to the quantitative nature of the course, college level mathematics is recommended.

UCM General Education Competency: This course fulfills Knowledge Competency #7 and reinforces Foundational Skills Competency #3 in the Science with a Laboratory area of the UCM General Education Program.

This course is equivalent to MOTR PHYS 010L Physical Sciences with Lab in the Natural Sciences Knowledge Area.

GEOS 1115 - Oceanography (3)

Introduction to ocean science 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.

GEOS 2100 - Engineering Geology (4: 3 lecture, 1 lab)

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 hydrogeology, waste disposal, slope stability, engineering properties of soil and rock, mapping, and site characterization. Prerequisite(s): GEOS 1004 or consent of instructor. An additional fee is associated with this course.

GEOS 2200 - Historical Geology (4: 3 lecture, 1 lab)

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(s): GEOS 1004. An additional fee is associated with this course.

GEOS 2281 - Map Interpretation (2)

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.

GEOS 2300 - Acquiring and Managing Spatial Information GE (2)

Introduction to acquiring and managing spatial information and how geospatial technologies (such as geographic information systems (GIS), global positioning satellites (GPS), and Remote Sensing) are used to understand human and environmental interactions.

UCM General Education Competency: This course fulfills Foundational Skills Competency #5 in the Managing Information area of the UCM General Education Program

GEOS 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.

GEOS 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, surface water, glaciers, climate, streams, ground water, and environmental issues. Prerequisite(s): GEOS 1004 or GEOS 3010.

GEOS 3213 - Paleoclimatology (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(s): GEOS 1004 or GEOS 1100 or BIOL 1003 or consent of instructor.

GEOS 3300 - Earthquakes and Volcanoes (3)

Investigation of the main processes and products of earthquakes and volcanoes within the framework of plate tectonics. Includes quantitative analyses and case studies of major earthquake and volcanic events. College level mathematics and composition are recommended.

GEOS 3501 - Invertebrate Paleontology (4: 3 lecture, 1 lab)

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 and understanding evolution of life on Earth. Laboratory will include local and regional field trips. Prerequisite(s): GEOS 2200. An additional fee is associated with this course.

GEOS 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(s): GEOG 2212 or GEOS 1004. An additional fee is associated with this course.

GEOS 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. This course is co-listed with GEOG 5310. Prerequisite(s): GEOG 2212 or GEOS 1004. An additional fee is associated with this course.

GEOS 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. This course is co-listed with GEOG 5320. An additional fee is associated with this course.

GEOS 4221 - Geographic Information Systems II (3)

Advanced aspects of spatial analysis and modeling and programming. Emphasis on research and planning applications. This course is co-listed with GEOG 5321. Prerequisite(s): GEOS 4220. An additional fee is associated with this course.

GEOS 4251 - Special Projects in Geoscience (1-6)

Study, interpretation, and discussion of special topics and problems in geography or earth science. This course is co-listed with GEOG 5251. *May be repeated for a maximum of 6 semester hours.*

GEOS 4275 - Special Topics in Geoscience (1-3)

Directed individual or group research of predetermined problems in geography or earth science for more intensive study. *May be repeated for a maximum of 3 semester hours.*

GEOS 4280 - Natural Disasters (3)

Designed to examine the geography, natural causes, and human consequences of a variety of natural disasters including a focus on how human behavior exacerbates those consequences.

GEOS 4300 - Earth Resources (4: 3 lecture, 1 lab)

Investigates the origin, geologic occurrence, identification, and use of earth materials including gold, diamonds, water, petroleum, building materials, and soils. Environmental problems associated with the extraction and utilization of earth resources are also examined.

GEOS 4950 - Laboratory Intern (1)

Students will assist in the preparation, supervision, and assessment of laboratory activities in the Earth Science program. *May be repeated for a maximum of 2 semester hours.* Prerequisite(s): Senior level in an Earth Science or Science Program and consent of faculty member of record for course.

GER 1301 - Elementary German I GE (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 school chair.

UCM General Education Competency: This course fulfills Knowledge Competency #6 and reinforces Foundational Skills Competency #2 in the Languages area of the UCM General Education Program.

GER 1302 - Elementary German II GE (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 school chair. Prerequisite(s): GER 1301.

UCM General Education Competency: This course fulfills Knowledge Competency #6 and reinforces Foundational Skills Competency #2 in the Languages area of the UCM General Education Program.

GER 2301 - Intermediate German GE (3)

Vocabulary, conversation, intensive grammar practice. Prerequisite(s): Acceptable proficiency as demonstrated by adequate high school course work in German or by departmental approval.

UCM General Education Competency: This course fulfills Knowledge Competency #6 and reinforces Foundational Skills Competency #2 in the Languages area of the UCM General Education Program.

GER 2302 - Intermediate German II GE (3)

Continuing development of the ability to use the language on the intermediate level, with more advanced grammar, listening work and readings. Prerequisite(s): GER 2301 or departmental approval.

UCM General Education Competency: This course fulfills Knowledge Competency #6 and reinforces Foundational Skills Competency #2 in the Languages area of the UCM General Education Program

GER 2303 - German Conversation I (3)

Conversation German using culturally based materials, emphasizing the four language skills (speaking, listening, writing and reading). Prerequisite(s): GER 2302 or departmental approval.

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 15 semester hours.* Prerequisite(s): 6 semester hours of German and consent of the school chair.

GER 3301 - Advanced German Readings (3)

Overview of contemporary literature in Germany, Austria, and Switzerland. Selected short stories, poems, plays, fairytales are read and discussed. Prerequisite(s): GER 2301 or departmental approval.

GER 3302 - German Composition and Grammar (3)

Advanced grammar including the passive voice and the subjunctive mood. Written composition will emphasize German word-order and idiomatic skills. Prerequisite(s): GER 2302 or departmental approval.

GER 3303 - German Conversation II (3)

Advanced oral practice in everyday German, discussion, idiomatic usage, listening comprehension and speaking. Prerequisite(s): GER 2303 or departmental approval.

GER 3323 - Contemporary Society in German-Speaking Countries (3)

An exploration of contemporary political, economic and societal issues affecting German-speaking cultures with emphasis on further developing language skills through discussions and written assignments. *May be repeated for a maximum of 6 semester hours.* Prerequisite(s): GER 2302 or departmental approval.

GER 3361 - German Civilization & Literature I (3)

A survey of German history, culture and literature before 1871. Prerequisite(s): GER 2302 or departmental approval.

GER 3362 - German Civilization and Literature (3)

A review of German history starting from 1871, including the Weimar Republic. Prerequisite(s): GER 2302 or departmental approval.

GER 3365 - Culture and Issues in German-Speaking Countries (3)

Focused exploration of topics in the culture and intellectual history of German-speaking countries. *May be repeated for a maximum of 6 semester hours.* Prerequisite(s): GER 2302 or departmental approval.

GER 4301 - German Cinema (3)

A survey of films from various German-speaking countries, with an emphasis on the cultural contexts in which the films are produced and viewed. Prerequisite(s): 3 hours of any 3000-level German class, or departmental approval.

GER 4302 - German Composition and Grammar II (3)

Advanced composition will emphasize German word-order, style and idioms. Prerequisite(s): GER 3302 or departmental approval.

GER 4350 - Business German (3)

Enhances linguistic and cultural knowledge of German for business, and will be conducted primarily in German. Prerequisite(s): 3 hours of any 3000-level German course.

GER 4380 - Masterpieces in German Literature (3)

Thematic survey of German literature. Prerequisite(s): 3 hours of any 3000-level German course or departmental approval.

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 15 semester hours.* Prerequisite(s): 18 semester hours of German and consent of school chair.

GISL 4244 - Cross-Cultural Cinema (3)

Uses academic literature and related movies to examine topics relating to culture, social justice, migration, and globalization.

GRAP 1000 - Orientation to Graphic Technologies (1)

Orientation to the philosophy, development, and current trends in the professional preparation for careers in graphic technologies, including design, printing, publishing, packaging and web media. An additional fee is associated with this course.

GRAP 1010 - Digital PreMedia Fundamentals (3)

Fundamental instruction and practice in the Adobe Creative Cloud software applications, with emphasis on applied practice in Photoshop, Illustrator, and InDesign. Projects also include web page development and designing products that are digitally output. An additional fee is associated with this course.

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 semester hours.* Prerequisite(s): written contract/proposal with objectives and departmental consent. An additional fee is associated with this course.

GRAP 1610 - Principles of Web Media (3)

Introduction to HTML5 and CSS3. Design and implement code for web pages that are backwards-compatible yet meet current web standards. An additional fee is associated with this course.

GRAP 1700 - Introduction to Packaging (3)

An overall view and understanding of packaging development and innovation, including the structure and decoration of assorted paper, paperboard, plastic, glass and metal packaging, and packaging systems and their role in society. An additional fee is associated with this course.

GRAP 2030 - Pre-Media Applications - Adobe Illustrator (3)

Applied experiences in design and production of vector graphic files using Adobe Illustrator which meet current industry standards. Prerequisite(s): GRAP 1010. An additional fee is associated with this course.

GRAP 2031 - Pre-Media Applications - Adobe Photoshop (3)

Applied experiences in creation and manipulation of digital images (raster graphic files) using Adobe Photoshop which meet current industry standards. Prerequisite(s): GRAP 1010. An additional fee is associated with this course.

GRAP 2032 - Pre-Media Applications - Adobe InDesign (3)

Applied experiences in design and creation of page layout files using Adobe InDesign which meet current industry standards. An additional fee is associated with this course. Prerequisite(s): GRAP 2030 and GRAP 2031. An additional fee is associated with this course.

GRAP 2035 - Applied Output Technologies (3: 1.5 lecture, 1.5 lab)

Fundamentals of graphic production processes and applied practice in digital prepress workflows, including Adobe InDesign. Emphasis on best practices for design of products intended for graphic production. Prerequisite(s): GRAP 1010. An additional fee is associated with this course.

GRAP 2620 - Web Media Applications (3)

Design, implementation, and management of websites using a content management system. Fundamentals of HTML email, Javascript, and PHP. Prerequisite(s): GRAP 1610. An additional fee is associated with this course.

GRAP 2630 - Web Authoring (3)

Basics of web page creation with XHTML, and CSS. Students learn to hand-code web pages with CSS for presentation and page layout and learn to create lists and links (internal, external, links to images, and more) with XHTML. Creating tables is introduced. Web site design is discussed with an emphasis on recommended practices, ethical considerations, and accessibility. Prerequisite(s): GRAP 1610, GRAP 2620. An additional fee is associated with this course.

GRAP 2670 - Web Media 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(s): GRAP 1610 and GRAP 2620. An additional fee is associated with this course.

GRAP 3010 - Social Media, Mobile Apps, and Content Management (3: 3 lecture, 0 lab)

Social media and mobile apps in a business context for raising brand awareness, attracting new customers, and enhancing consumer engagement for increased sales. Content management fundamentals, and creation of interactive content supported with compelling graphics. An additional fee is associated with this course.

GRAP 3016 - Experiences in Graphic Production (1)

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(s): Prerequisite: GRAP 2035 and school consent. An additional fee is associated with this course.

GRAP 3024 - Packaging Technologies (3: 2 lecture, 1 lab)

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(s): GRAP 2035. An additional fee is associated with this course.

GRAP 3030 - Digital Output Technologies (3: 2 lecture, 1 lab)

Advanced image manipulation techniques as related to color and correction with special techniques for the printing and imaging industry. Prerequisite(s): GRAP 2030 and GRAP 2031. An additional fee is associated with this course.

GRAP 3034 - Commercial and Publication Technologies (3: 2 lecture, 1 lab)

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(s): GRAP 2035. An additional fee is associated with this course.

GRAP 3036 - High Volume and Publication Production (3: 2 lecture, 1 lab)

Offset Lithography from image preparation through finishing with concentration on multi-color and process printing, long-run/high-volume, signature production and publication printing using sheet fed and web printing equipment. Prerequisite(s): GRAP 3016 and GRAP 3034. An additional fee is associated with this course.

GRAP 3040 - Screen and Specialty Graphics (3: 2 lecture, 1 lab)

Theory and application of screen, pad, heat transfer, and dye sublimation printing processes for industrial applications. Prerequisite(s): GRAP 2035. An additional fee is associated with this course.

GRAP 3043 - Finishing and Distribution (3: 2 lecture, 1 lab)

Equipment, operations, and principles relative to trimming, binding, folding, shipping/mailing and specialized finishing operations, including scoring, perforating, die-cutting, embossing and foil stamping. Prerequisite(s): GRAP 1010. An additional fee is associated with this course.

GRAP 3045 - Materials and Methods in Graphic Technologies (3)

Properties, specification, pricing and procurement of ink and printing substrates relative to the various printing processes and applications with an emphasis on flexography, lithography, gravure and digital output. Prerequisite(s): GRAP 1010. An additional fee is associated with this course.

GRAP 3051 - Graphic Technologies Management (3)

Principles and practical application of management functions as related to the production of printed materials. Instruction includes classroom simulation of management roles. Prerequisite(s): GRAP 3016 and GRAP 3034. An additional fee is associated with this course.

GRAP 3057 - Quality Control for Print Media (3)

Designed to acquaint the student with quality control and quality assurance as it relates to printing production and digital output. Instruction includes material acceptance, process control, product evaluation, and problem solving techniques used in the management of quality. Prerequisite(s): GRAP 3034 and GRAP 3051. An additional fee is associated with this course.

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 school. By arrangement for qualified students. *May be repeated for a maximum of 6 semester hours.* Prerequisite(s): written contract/proposal with objectives and written school consent. An additional fee is associated with this course.

GRAP 4038 - Color Management (3)

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(s): GRAP 3030. An additional fee is associated with this course.

GRAP 4040 - Applied Color Management (1)

Application of color theory to the measurement and process control of color printing with a concentration on densitometry and colorimetry in order to meet industry production standards. Prerequisite(s): GRAP 4038. An additional fee is associated with this course.

GRAP 4051 - Print Production (3: 3 lecture, 0 lab)

Applied experiences in management and technological applications in the production of printed material including prepress, press, and post press operations. Prerequisite(s): GRAP 2032, GRAP 2035, and GRAP 3051. An additional fee is associated with this course.

GRAP 4053 - Production Analysis (3)

Analysis and planning of the production of a variety of products for commercial and publication printing. Content includes imposition methods, workflow solutions, and technical problems associated with print production. Prerequisite(s): GRAP 3034 and GRAP 3045. An additional fee is associated with this course.

GRAP 4055 - Estimating and Costing for Print Media (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. Prerequisite(s): GRAP 4053. An additional fee is associated with this course.

GRAP 4095 - Senior Seminar in Graphic Technologies (1)

Professional preparation which integrates team building, problem solving, and analysis of current trends in graphic production. Prerequisite(s): GRAP 3051. An additional fee is associated with this course.

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.* Prerequisite(s): written contract/proposal with objectives and written school consent. An additional fee is associated with this course.

HLTH 1010 - Introduction to Health Studies (1)

Includes material designed to assist the student in the skillful selection and understanding of an associated, adjunctive, rehabilitative, administrative, or affiliated healthcare career.

HLTH 1100 - Personal Health GE (3)

Health issues in today's society with special reference and application to the present and future life of the student. Fall, Spring, Summer.

This is a sustainability course.

HLTH 1200 - Applied Nutrition for Healthy Living GE (3)

Explores current knowledge about basic human nutrition, dietary requirements, diet analysis, food safety, and weight management for all ages. Fall, Spring, Summer.

UCM General Education Competency: This course fulfills Knowledge Competency #9 and Foundational Skills Competency #4 in the Engagement area of the UCM General Education Program.

HLTH 1350 - Responding to Emergencies (3)

The first aid practice and theory for common emergencies. Students may receive first aid and CPR certification. An additional fee is associated with this course. Fall, Spring.

HLTH 2400 - Community Health Education (3)

Various types of health programs conducted by private, volunteer, and official agencies are explored. Fall, Spring, Summer.

HLTH 3000 - Internship (3)

Designed to provide students with a 200-hour field experience applying health science principles and theories in an approved setting. . Prerequisite(s): School approval and must have completed two-thirds of major courses in area of study

HLTH 3300 - Health Behavioral Theory (3)

Students explore the use of behavior modification strategies in the context of current health issues and news topics. Students will gain insight into the process of linking theory to practice in health promotion campaigns and programs. Fall, Spring.

HLTH 3310 - Methods in Elementary School Health (2)

Curriculum and lesson plan development, basic health concepts, and methodology of teaching elementary health education. Fall, Spring, Summer.

This is a professional education course.

HLTH 3350 - Introduction to Epidemiology and Population Health (3)

This course will review the major principles of epidemiology through the use of medical literature. This course is designed for students to obtain training in epidemiologic and population health concepts and methods. Prerequisite(s): PSY 3100. Fall, Spring.

HLTH 3360 - Methods in Secondary School Health (2)

Explores the current trends in curriculum development in health education and the legal aspects of school health. Prerequisite(s): EDFL 2240. Fall, in even numbered years only

HLTH 3400 - Health Program Planning and Evaluation (3)

Designed to provide the student with the skills necessary to assess, develop, implement, and evaluate health programs within a community. Prerequisite(s): HLTH 3300.

HLTH 4000 - Special Projects in Health Education (1-5)

Individual or group study of problems in special areas of interest. This course is co-listed with HLTH 5000. *May be repeated for a maximum of 6 semester hours.*

HLTH 4310 - Drugs: Addiction to Recovery (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. This course is co-listed with HLTH 5310. Fall, Spring, Summer.

HLTH 4320 - Teaching Sexuality Education in the School (3)

Prepares the teacher for course development, instruction and integration of sexuality education into the school curriculum. Fall, in odd numbered years only

HLTH 4330 - First Aid and CPR (1)

Skills and principles of first aid and accident prevention in the schools. Students may receive first aid and CPR certification. An additional fee is associated with this course. Fall, Spring, Summer.

This is a professional education course.

HLTH 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.

HLTH 4370 - Pathophysiology (3)

An overview of the agents of disease, the processes of contagion, and the effects on humans.
Prerequisite(s): KIN 2850 or BIOL 3401 and BIOL 3402. BIOL 3402 may be taken concurrently.

HLTH 4410 - Health Program Implementation and Logistics (3)

This course will deliver the necessary components for the successful implementation of health promotion programs. By using evidence-based interventions, students will be able to effectively deliver and implement health education or promotion programs. Fall, Spring.

HLTH 4420 - U.S. Health Policy, Advocacy and Ethics (3)

An examination of current U.S. health policy and news coverage. Students will engage in discussions of issues, ethics, processes, and measures. Interdisciplinary case study activities will help the student understand the opportunities and challenges that health policy presents. Prerequisite(s): HLTH 4410.

HLTH 4450 - Global Health (2)

This course uses a multidisciplinary view to introduce the student to essential globalization and global health concepts such as global health rights, determinants of health, prioritization, strategies, metrics, financing, and goals. Students will look critically at health comparisons, development, partnerships and sustainability across the income spectrum. Prerequisite(s): HLTH 3350 or concurrent.

HLTH 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. Prerequisite(s): HLTH 3310 or HLTH 3360.

HLTH 4765 - Internship (6)

A 300-contact hour field experience applying health studies principles or theories in an approved community, corporate, and clinical setting. Prerequisite(s): HLTH 4420 or concurrently.

HIST 1350 - History of the United States to 1877 GE (3)

Survey of U.S. history from the age of exploration to 1877.

UCM General Education Competency: This course fulfills Knowledge Competency #8 and reinforces Foundational Skills Competency #4 in the History area of the UCM General Education Program.

This course is equivalent to MOTR HIST 101 American History I in the Social & Behavioral Sciences Knowledge Area.

HIST 1351 - History of the United States from 1877 GE (3)

Survey of U.S. history from 1877 to present.

UCM General Education Competency: This course fulfills Knowledge Competency #8 and reinforces Foundational Skills Competency #4 in the History area of the UCM General Education Program.

This course is equivalent to MOTR HIST 102 American History II in the Social & Behavioral Sciences Knowledge Area.

HIST 1400 - History of the Early World GE (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.

UCM General Education Competency: This course fulfills Knowledge Competency #8 and reinforces Foundational Skills Competency #4 in the History area of the UCM General Education Program.

HIST 1401 - History of the Early Modern World GE (3)

World civilization from 1300 to 1787. Special emphasis will be given to economic contact and cultural clashes among European, Asian, American, and African civilizations.

UCM General Education Competency: This course fulfills Knowledge Competency #8 and reinforces Foundational Skills Competency #4 in the History area of the UCM General Education Program.

HIST 1402 - History of the Modern World GE (3)

A survey of modern world civilization since 1787. Special attention given to industrialization, democratization and constitutionalism, imperialism, global wars, and modernization of the non-western world.

UCM General Education Competency: This course fulfills Knowledge Competency #8 and reinforces Foundational Skills Competency #4 in the History area of the UCM General Education Program.

HIST 2410 - Introduction to Africana Studies GE (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.

UCM General Education Competency: This course fulfills Knowledge Competency #9 and Foundational Skills Competency #4 in the Engagement area of the UCM General Education Program.

HIST 3010 - The Historian's Craft (3)

Introductory seminar in historical research and writing. Prerequisite(s): completion of General Education Writing I and II.

HIST 4300 - Missouri History (3)

Missouri history from earliest times to the present. This course is co-listed with HIST 5300.

HIST 4307 - American Colonial History 1607-1763 (3)

American political, economic, and cultural institutions in the colonial period. This course is co-listed with HIST 5307.

HIST 4309 - The African-American in American History (3)

Economic, political, and social development of the African-American in the United States. This course is co-listed with HIST 5309.

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. This course is co-listed with HIST 5410.

HIST 4311 - Revolution and Republic (3)

American political, economic, and cultural institutions from 1763 to the War of 1812. This course is co-listed with HIST 5311.

HIST 4314 - Jacksonian America (3)

Cultural, social, political and economic development of the United States from the War of 1812 to 1848. This course is co-listed with HIST 5314.

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. This course is co-listed with HIST 5315.

HIST 4316 - The American Military Experience (3)

Selected topics and themes in American military history. This course is co-listed with HIST 5316.

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. This course is co-listed with HIST 5317.

HIST 4318 - The Gilded Age and Progressive Era (3)

The course examines the political and social changes in the United States from 1877 to 1920 that contributed to the emergence of modern America. This course is co-listed with HIST 5318.

HIST 4320 - History of the American West (3)

Explores the economic, political, cultural, social, and environmental history of the trans-Mississippi West. This course is co-listed with HIST 5320.

This is a sustainability course.

HIST 4322 - US History Since 1945 (3)

Examines the social, cultural, and political history of the United States from 1945 through the twentieth century. This course is co-listed with HIST 5322.

HIST 4324 - Truman and Civil Rights (3)

Analyzes the civil rights record of President Harry S. Truman. This course is co-listed with HIST 5324.

HIST 4325 - History of American Diplomacy (3)

Foreign relations of the United States with emphasis on the period since 1900. This course is co-listed with HIST 5325.

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. This course is co-listed with HIST 5326.

This is a sustainability course.

HIST 4327 - African American Women, Gender, and Girlhood (3)

Focuses on the history and development of black women and girls from their African origins to the present. This course is co-listed with HIST 5327.

HIST 4328 - History of Flight (3)

Examines manned flight from the eighteenth century to the present, with additional topics covering the basic biological and physical mechanics of flight. This course is co-listed with HIST 5328.

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. This course is co-listed with HIST 5330.

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. This course is co-listed with HIST 5331.

HIST 4337 - Nature's Nation: American Environmental History (3)

This course examines how humans and nature have interacted in American history, from the last Ice Age until the present day. It focuses on how these relationships have shaped the economic, political, cultural, and social history of the area that is now the United States. This course is co-listed with HIST 5337.

HIST 4340 - Public History (3)

Defines public history and its constituents, and it surveys the job experiences of practitioners in the fields of archives, museums, and historic sites. This course is co-listed with HIST 5340.

HIST 4351 - Special Projects in American History (1-6)

Study, interpretation, and discussion of special topics and problems in American history. This course is co-listed with HIST 5551. *May be repeated for a maximum of 15 semester hours.*

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. This course is co-listed with HIST 5402.

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. This course is co-listed with HIST 5403.

HIST 4404 - Barbarian Europe (3)

European history from the fall of the Roman Empire to the formation of new successor states, with emphasis on interdisciplinary research methods. This course is co-listed with HIST 5404.

HIST 4411 - The Renaissance and Age of Exploration (3)

An analysis of the relationships between the Italian Renaissance, Iberian exploration, and the forging of the first global economy up to the mid-sixteenth century. This course is co-listed with HIST 5411.

HIST 4412 - Wars of Reformation and Religion (3)

An exploration of the religious, social, and political causes and effects of the sixteenth century crisis in Western Christendom and the warfare to 1648. This course is co-listed with HIST 5412.

HIST 4413 - The Age of Absolutism and Enlightenment (3)

The development and legacy of the European bureaucratic and centralized monarchical state in the context of the Scientific Revolution. This course is co-listed with HIST 5413.

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. This course is co-listed with HIST 5414.

HIST 4415 - Revolutionary Europe (3)

A survey of the political, social, economic, and cultural transformation of Europe in a century of revolution, from the ancient regime to World War I. This course is co-listed with HIST 5415.

HIST 4416 - Europe in Crisis: 1900-Present (3)

Examines the political, diplomatic, and strategic trends of the major European states from World War I through the present. This course is co-listed with HIST 5416.

HIST 4418 - War and Modern Society (3)

Explores the relationship between warfare and society from the advent of gunpowder weaponry to the 21st century. This course is co-listed with HIST 5418.

HIST 4419 - Women in Modern Europe (3)

Survey of the history of European women's oppression and agency from the Renaissance to the present. This course is co-listed with HIST 5419.

HIST 4422 - Religion, War, and Death in Early Modern Britain (3)

The histories of England, Scotland, Wales, and Ireland from the Wars of the Roses to the Hanoverians. This course is co-listed with HIST 5422.

HIST 4423 - Rule Britannia!: The Making and Eclipse of a Great Power (3)

The political, economic, and cultural history of Great Britain and the Empire since the Age of Reason. This course is co-listed with HIST 5423.

HIST 4431 - Modern Germany (3)

A political, social, economic, and cultural history of Germany from World War I through the present. This course is co-listed with HIST 5431.

HIST 4432 - Nazi Germany and the Holocaust (3)

Traces the rise of Nazism, World War II, the Final Solution, and their legacies. This course is co-listed with HIST 5432.

HIST 4441 - The Rise of Imperial Russia (3)

Explores the history of Imperial Russia from Kievan Rus' through the end of the reign of Tsar Alexander II. This course is co-listed with HIST 5441.

HIST 4442 - The Soviet World (3)

Russia and Eastern Europe from World War I through the collapse of communism. This course is co-listed with HIST 5442.

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. This course is co-listed with HIST 5451.

HIST 4452 - Modern Latin America (3)

Latin American history from the independence movement of the eighteenth century to the present. This course is co-listed with HIST 5452.

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. This course is co-listed with HIST 5453.

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. This course is co-listed with HIST 5461.

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. This course is co-listed with HIST 5462.

HIST 4463 - Modern 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. This course is co-listed with HIST 5463.

HIST 4464 - Modern Korea (3)

Korean history from 1800 to the present, examining politics, society, economy, and culture. Focus on Korea's interaction with East Asia and the world. This course is co-listed with HIST 5464.

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. This course is co-listed with HIST 5471.

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. This course is co-listed with HIST 5472.

HIST 4473 - History of South Africa (3)

A survey of South African History from the pre-1800's to the present. This course is co-listed with HIST 5473.

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. This course is co-listed with HIST 5481.

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. This course is co-listed with HIST 5482.

HIST 4483 - Third World Revolutions (3)

A global survey of movements for decolonization and revolutionary change from 1945 to present. Fulfills non-Western history requirement. This course is co-listed with HIST 5483.

HIST 4491 - Special Projects in World History (1-6)

Study, interpretation, and discussion of special topics and problems in World history. This course is co-listed with HIST 5491. *May be repeated for a maximum of 15 semester hours.*

HIST 4500 - Senior Capstone in History (3)

Senior seminar and practicum in advanced historical research and writing. Prerequisite(s): HIST 3010 with a grade of C or better. For history majors only.

HONR 3000 - Honors Colloquium (2)

An interdisciplinary course taught by selected faculty. Content varies from semester to semester. Required of and open only to students in The Honors College. *May be repeated for a maximum of 6 semester hours.* Prerequisite(s): junior standing or approval of the Dean of The Honors College.

HONR 4000 - Honors Project (4)

A capstone research or creative project pursued under the supervision of a UCM faculty mentor selected by the student. Required of all Honors College students. Prerequisite(s): senior standing or approval of the Dean of The Honors College.

ESE 3845 - Small Business Operations Analysis (3)

Many small businesses have a disconnect between the business plan and the management of day to day operations. This course is intended to provide the necessary practice of using relevant software for functions such as (but not limited to): setting up and charting accounts; recording transactions with customers, vendors and employees; understanding and analyzing small business financial reports; and, developing decision processes for future operations. Sales forecasting, revenue management, labor management, production management, cost projections, and financial statements are created and interpreted. A decision-based project is created, presented and completed. Prerequisite(s): ACCT 1101. Students are encouraged to enroll in both ESE 4710 and ESE 3845 during the same semester. An additional fee is associated with this course. Fall.

HM 1800 - Introduction to Hospitality (3)

Introduces the students to the scope of the hospitality industry, its organizational structure and operations. This includes its history and development, various sectors, current ventures and career opportunities. An important goal is for students to rigorously assess their career interests and to map a detailed career plan for the first few years of their professional lives. Fall.

HM 2830 - Hospitality Management Case Analysis (1)

Class utilizes team-based learning through readiness assessment tests and case analysis to cover topics of the hospitality industry including: written, verbal, coaching, and management communication skills; personal and professional money management practices; sustainable decision making; and human resource management skills. One-credit course required over three semesters for three credit hours of undergraduate credit. *May be repeated for a maximum of 6 semester hours.* Fall, Spring.

HM 3800 - Lodging Management (3)

The study of the operation and interaction of departments within the rooms division of a hotel with particular emphasis on front office, housekeeping and security. Focus is placed on the integration of yield management techniques, forecasting, overbooking, group decisions, managing guest accounts and internal service management challenges. Prerequisite(s): sophomore standing. An additional fee is associated with this course. Fall.

HM 3810 - Internship in Hotel and Restaurant Management (1-3)

The purpose of this course is to introduce students to the hospitality industry and allow for investigating different career paths. The internship advances the concepts of customer service and inter-personal skills. Three credit hours must be with same employer. Only available for Pass/Fail credit. An additional fee is associated with this course.

HM 3825 - Events Management (3)

Theoretical and practical foundations for effective twenty-first century event management including research, design, planning, coordinating, and evaluating of professional events. It will be experiential, hands on learning class. Class will discuss definitions, categories of event planning, and current issues/trends of event management. Students will be assigned event projects in the semester which they will be expected to participate in the planning and execution and attend the event. Prerequisite(s): junior standing. An additional fee is associated with this course. Fall.

HM 3830 - Hospitality and Tourism Marketing (3)

Highlights the conceptual, descriptive and strategic issues involved in identifying and capturing tourism and hospitality marketing opportunities. It focuses on major marketing decisions that tourism and hospitality managers face in generating and sustaining demand for their products and services. Students examine the guidelines for formulating destination-orientated marketing goals and strategies; covers the trend issues and challenges influencing destination marketing and the elements that combine to create a marketing plan. Prerequisite(s): junior or senior standing. An additional fee is associated with this course. Fall.

HM 3835 - Facilities Management (3)

Develops a facility management strategy including planning, safety, security, service delivery, maintenance, building performance management, and sustainable facilities. Students will differentiate between client needs and available resources and propose capital purchases and maintenance schedules. Additional focus

will be spent on audio visual equipment and needs for events. An additional fee is associated with this course.

HM 3844 - Restaurant Operations (3)

Front-of-house operational management skills are developed including service, labor management, customer expectations, and money management in-class and practice using restaurant simulation software. Back-of-house skills covered include production management, sanitation, safety, supervision, and equipment management. Food and beverage marketing and management are covered and service standards are demonstrated in on-campus catering events. Prerequisite(s): ServSafe Certification and ACCT 1101. An additional fee is associated with this course. Spring.

HM 3870 - Digital Hospitality Management (3)

Introduction to the digital mediums and understanding of methods for handling interactive digital media used within the hospitality industry. Evaluate effectiveness of digital mediums from customer perspective. Assess the strength of an organization's customer service management through the technological medium and utilize the information for customer satisfaction. An additional fee is associated with this course. Spring.

HM 3880 - Internship (1-3)

Provides industry experience for students in the BSBA in Hospitality Management. Appropriate internship sites can include hotels, resorts, restaurants, theme parks, Convention & Visitor's Bureau and other businesses in the Hospitality & Tourism industry. Three credit hours must be with same employer. An additional fee is associated with this course.

HM 4000 - Special Projects in Hospitality Management (1-3)

Investigation of current problems and issues in hospitality management. *May be repeated for a maximum of 9 semester hours.* Prerequisite(s): Consent of instructor. An additional fee is associated with this course.

HM 4810 - Internship (1-5)

Hospitality businesses provide undergraduate students who have demonstrated a high level of commitment to the hospitality industry through their academic performance and practical experience with the opportunity to grow their careers before graduation. These management internship experiences allow students to work in properties in a few departments to gain valuable experience with industry leaders. Students have an opportunity to experience the culture of the organization which can help them determine if it could be the right career fit for them upon graduation. Students are expected to take the initiative to be immersed in the operation of a hotel or restaurant departments, understand the day-to-day operations and managerial functions. Only available for Pass/Fail credit. Prerequisite(s): HM 3810 and junior or senior standing. Five credit hours must be with same employer. An additional fee is associated with this course.

HM 4820 - Sustainability and Operations Management (3)

Personal definitions and ability to impact an operation and society are developed while understanding the tiers of sustainability: economic, social, and environment. Proficiencies in waste and efficiency management are developed focusing on equipment, design, labor, and marketing. Students work with industry on client projects and present a completed research assignment. Prerequisite(s): ACCT 1101. An additional fee is associated with this course.

This is a sustainability course.

HM 4825 - Advanced Events Management (3)

Gives students with a snapshot of professional event planning and execution. Developing fundamental knowledge and skills in event management, students improve the capabilities of critical thinking and problem solving with diverse cases and examples. All students play roles of event managers to complete a comprehensive understanding on professional event planning, services, and project management for business meeting/festival/convention/wedding. This course builds on the basic skills learned in HM 3825 Events Management and requires students to plan and execute more advance event(s).

Prerequisite(s): Senior standing, MKT 3430 and HM 3825 . An additional fee is associated with this course. Spring.

HM 4840 - Legal Aspects of Hotel and Restaurant Management (3)

Students will recognize, analyze, and evaluate legal issues and articulate appropriate decisions based on workplace situations. Contract, dramshop, property, employee, liability law, and legal responsibilities for guests are defined and discussed utilizing legal statutes and judicial opinions. Verbal communication skills are developed through debate and forensic style case studies and assignments. Prerequisite(s): HRM 3920. An additional fee is associated with this course.

HM 4845 - Hospitality Business Planning (3)

Prepares students to identify new business opportunities in the hospitality industry (lodging, travel, restaurant, and additional fields) and determine the feasibility of a new business or an extension of an existing business model. Students will interact with successful industry leaders and will be introduced to the challenges and opportunities inherent in the development and planning of hospitality businesses. Using a hands-on approach, a business plan for a hospitality concept, which includes thorough research and detailed financial projects for revenue generation and cost structure, will be developed. Prerequisite(s): HM 3830. An additional fee is associated with this course. Spring.

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(s): MGT 3315 or concurrently; or MGT 3320 or concurrently; or INDM 4210 or concurrently. An additional fee is associated with this course. Fall, Spring, Summer.

HRM 4930 - Compensation and Benefits (3)

Concepts, models, theories, and application of processes and systems of employee compensation and benefits within organizations. This course is co-listed with HRM 5930. Prerequisite(s): HRM 3920. An additional fee is associated with this course. Fall.

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. This course is co-listed with HRM 5990. Prerequisite(s): HRM 3920. An additional fee is associated with this course.

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. This course is co-listed with INDM 5110. Prerequisite(s): junior or senior standing. An additional fee is associated with this course.

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. An additional fee is associated with this course.

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. This course is co-listed with INDM 5210. An additional fee is associated with this course.

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). This course is co-listed with INDM 5120. An additional fee is associated with this course.

INDM 4230 - Lean and Quality Management (3)

Relationship between quality and competitiveness, design strategy for performance excellence, and discussion of cases in lean systems and Six Sigma. This course is co-listed with INDM 5130. Prerequisite(s): background statistics course. An additional fee is associated with this 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. This course is co-listed with INDM 5140. An additional fee is associated with this course.

INDM 4250 - Project Management (3)

Designed to provide students with applied knowledge in project management organizational contexts, project selection, portfolio management, project leadership, scope management, team building, conflict management, risk management, scheduling, networking, resource management, project evaluation, project control, and project termination. This course is co-listed with INDM 5150. An additional fee is associated with this course.

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. This course is co-listed with INDM 5160. An additional fee is associated with this course.

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. This course is co-listed with INDM 5180. Prerequisite(s): MATH 1111. An additional fee is associated with this course.

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 4100 - Integrating Technology into Teaching (3)

Advanced preparation in how to integrate technology into teaching including the latest trends and pedagogical strategies. This course is co-listed with INST 5101. Sometimes offered online.

INST 4110 - Google Educator Prep (3)

Preparation in how to become a Google Educator by effectively integrating Google tools into teaching. This course is co-listed with INST 5110.

INST 4120 - Google Education Trainer Prep (2)

Preparation in how to become a Google Education Trainer. This course is co-listed with INST 5120. Prerequisite(s): INST 4110.

INST 4300 - Principles of Online Instruction (3)

Introduces students to the resources, techniques, and practices of teaching and learning in the PK-12 online environment. This course is co-listed with INST 5160. Sometimes offered online.

INST 4310 - Fund Development for Educational Technology (1)

Practical understanding and skills related to the creating fundable ideas, locating funding sources, writing competitive proposals, and manage funded educational technology projects. This course is co-listed with INST 5170. Sometimes offered online.

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. This course is co-listed with INST 5140.

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 multimedia technology to the design and

production of educational materials aligned with standards. This course is co-listed with INST 5150. Sometimes offered online.

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.* Prerequisite(s): INST 4400. Sometimes offered online.

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. Fall, Spring.

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.

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(s): completion of General Education Knowledge Area II. Offered as needed.

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.

IS 1000 - Introduction to International Studies GE (3)

An interdisciplinary course highlighting the interconnectedness between the individual, communities, and the global system. Theories of international relations, economics, and law are applied to topics.

UCM General Education Competency: This course fulfills Knowledge Competency #8 and reinforces Foundational Skills Competency #4 in the Social & Behavioral Sciences area of the UCM General Education Program

IS 3000 - International Studies in Practice (3)

Prerequisite(s): This course introduces students to the nature of work in international non-governmental organizations and non-profits and trains them in the skills necessary to succeed in this sector.

IS 3900 - Special Projects in International Studies (3)

Study, interpretation, and discussion of special topics and problems in international studies.

IS 4900 - Directed Readings in International Studies (3)

Readings focused on a specific area of international studies or a current issue that is of particular interest to the student.

IS 4950 - Senior Seminar (3)

Examination of current issues in international studies integrated with students' research interests, foreign language proficiencies, and international experiences.

ISP 4000 - Study Abroad (1-18)

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. This course is co-listed with ISP 5000. *May be repeated.*

Prerequisite(s): approval of the Director of the International Center.

KIN 1101 - Introduction to Kinesiology (3)

Orients students to the academic discipline of Kinesiology and the professions related to Exercise Science, Corporate Fitness, and related Health Professions.

KIN 1206 - Fitness for a Global Community GE (3)

Students will develop a global perspective on developing a healthy lifestyle through development of wellness including but not limited to: physical fitness; exercise; nutrition and mental wellness. Through a laboratory experience students will engage in global fitness activities. Includes scheduled lab.

UCM General Education Competency: This course fulfills Knowledge Competency #9 and Foundational Skills Competency #4 in the Engagement area of the UCM General Education Program.

KIN 1800 - Functional Anatomy (3)

Detailed study of the structure of the human body from a functional perspective. Emphasis on gross anatomy of the muscular and skeletal systems. Prerequisite(s): KIN 1101 with a C or better.

KIN 2800 - Biomechanics (3)

Intensive investigation and analysis of human movements. The basic mechanical principles of force, motion, and aerodynamics as related to the fundamental physical skills and their application to sports movement.

Prerequisite(s): MATH 1111 or MATH 1112 or MATH 1131 or MATH 1150 or MATH 1151 or MATH 1152 with a C grade or better and KIN 1800 with a grade of C or better or BIOL 3401. An additional fee is associated with this course. Fall, Spring.

KIN 2850 - Foundations of Exercise Physiology (3)

The study of foundational aspects of exercise physiology including bioenergetics, cardiovascular, muscular, nervous, skeletal, and pulmonary anatomy and physiology. Prerequisite(s): KIN 1800 with a grade of C or better. An additional fee is associated with this course. Fall, Spring.

KIN 2900 - Essentials of Personal Training (3)

Provide theoretical knowledge and practical skills in preparation for a national certification in personal training. Prerequisite(s): KIN 2850 with a grade of C or better. Fall, Spring.

KIN 3850 - Assessment and Evaluation of Fitness/Wellness (3)

The selection, administration, and interpretation of test and protocols for fitness assessment. Prerequisite(s): KIN 2850 with a grade of C or better. An additional fee is associated with this course. Fall, Spring.

KIN 4341 - Physical Activity and Special Populations (3)

A focus on exercise prescription for individuals with arthritis, diabetes, COPD, Cancer, CAD, etc. Prerequisite(s): KIN 3850 with a grade of C or better.

KIN 4765 - Internship (6)

A 300-hour field experience applying exercise science or health studies principles and theories in an approved setting. Prerequisite(s): KIN 3850 with a grade of C or better, or HLTH 3400, and Departmental approval. Fall, Spring, Summer.

KIN 4860 - Fitness Programming and Implementation (3)

Foundational ideas essential to planning, developing and implementing a fitness/wellness program. Prerequisite(s): KIN 2900 and KIN 3850 each with a grade of C or better.

KIN 4870 - Applied Exercise Physiology (3)

Designed to advance undergraduate Kinesiology student understanding of exercise physiology concepts through hands on application. Material will build upon concepts learned in KIN 2850. Prerequisite(s): KIN 3850 with a grade of C or better. An additional fee is associated with this course.

LIS 1010 - Truth, Lies and Information Management GE (2)

In an information-saturated society, this class prepares students to locate, evaluate, and synthesize information for academic, professional and personal pursuits by developing a critical awareness of sources and search strategies.

UCM General Education Competency: This course fulfills Foundational Skills Competency #5 in the Managing Information area of the UCM General Education Program.

LIS 1600 - University Library and Research Skills GE (2)

Freshman-level course introduces traditional and computer-based resources and services available in academic libraries and strategies for locating, evaluating and using information. Fall, Spring, Summer. Sometimes offered online.

UCM General Education Competency: This course fulfills Foundational Skills Competency #5 in the Managing Information area of the UCM General Education Program.

LIS 4000 - Special Projects in Library Science (1-5)

Individual or group study of problems in special areas of interest. This course is co-listed with LIS 5001 *May be repeated for a maximum of 5 semester hours*. Fall, Spring, Summer.

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. This course is co-listed with LIS 5300. Fall, Summer. Taught only as an online course.

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. This course is co-listed with LIS 5520. Fall, Spring, Summer. Taught only as an online course.

LIS 4600 - Advanced Library Research (3)

Introduces students to methodologies and techniques necessary to conduct advanced or graduate-level library research. Topics covered include developing research problems and questions; critical appraisal of research literature and the peer review process; different types of sources; research ethics and integrity; and suitability of sources to the chosen topic. Modules are included that will be customized to each student's major field of study, looking at data collection, analysis and interpretation. This course is co-listed with LIS 5600. Prerequisite(s): junior standing.

MGT 1320 - Introduction to Leading & Managing (3)

Introductory course providing integration of business knowledge using conceptual, communication, interpersonal, and technical skills applied to organizational behavior, leadership, and human resource management.

MGT 2350 - Special Projects in Management (1-3)

Basic course in management theory, practice, methods, and strategies taught on an individual or group basis to management students. *May be repeated for a maximum of 6 semester hours*.

MGT 3300 - Dale Carnegie Leadership Training for Managers (2)

The Dale Carnegie Leadership Training for Managers course. Prerequisite(s): junior standing. An additional fee is associated with this course.

MGT 3315 - Management of Organizations (3)

An examination of the theory and practices of managing organizations, including planning, organizational theory, human behavior, and control. Prerequisite(s): 60 hours. An additional fee is associated with this course. Fall, Spring, Summer.

MGT 3320 - XBOB eXperience Based 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(s): MGT 3325 or concurrently;

or ART 2305 and CTE 3060 or concurrently. Recommend take MGT 3315 before this course for BSBA majors. An additional fee is associated with this course. Fall, Spring.

MGT 3325 - Business Communication (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. Prerequisite(s): MKT 1401 or COMM 1000 or COMM 1050; ENGL 1030 or ENGL 1080 or CTE 3060. An additional fee is associated with this course. Fall, Spring, Summer.

MGT 3335 - Internship in Management (1-9)

Opportunity for students to gain theoretical knowledge and practical application within a particular field of specialization. Prerequisite(s): Admission to the B.S.B.A. program, 60 semester hours, and overall GPA of 2.50 or above, or permission from internship director. An additional fee is associated with this course.

MGT 3345 - International Management (3)

Investigates the impact of 'free economies', cultural differences, negotiation styles, HR practices political systems and ethical dilemmas on international business and management. BSBA in Management students must choose this course for at least 1 credit. Students may choose this course for 1 or 3 credits but may take this course only once. An additional fee is associated with this course. Fall, Spring.

MGT 3350 - Special Projects in Management (1-3)

Intermediate course in management theory, practice, methods, and strategies taught on an individual or group basis to management students. *May be repeated for a maximum of 6 semester hours.* An additional fee is associated with this course.

MGT 3360 - Supply Chain and Operations Management (3)

Experiential analysis of supply chain and operations problems commonly faced by managers in many disciplines. Emphasis on strategic operations decision making, planning operations systems, forecasting, project management, supply chain and operations management, sustainability and corporate social responsibility. Prerequisite(s): FIN 3801 or concurrently and MGT 3315 or concurrently; or FIN 3801 or concurrently and a declared BS in Economics. An additional fee is associated with this course. Fall, Spring, Summer.

This is a sustainability course.

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. Corequisite(s): special sections of MGT 3315, MKT 3405 and CIS 3630. An additional fee is associated with this course. Fall, Spring.

This is a sustainability course.

MGT 4300 - Health Care Administration (3)

Management concepts, tools, and techniques for effective administration of all types of health care facilities. Prerequisite(s): MGT 3315. An additional fee is associated with this course.

MGT 4310 - Innovation, Quality and Sustainability (3)

Experiential investigation of innovation, quality and sustainability in a team based, integrative learning environment. Students will learn how to create and sustain a competitive advantage using innovative processes and continuous improvement tools. This course is co-listed with MGT 5410. Prerequisite(s): Admission to the B.S.B.A. program or declared management minor. An additional fee is associated with this course. Fall, Spring, Summer.

This is a sustainability course.

MGT 4320 - Leadership (3)

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. Students find their own clients to deliver customized leadership training. Prerequisite(s): MGT 3320, and Admission to the B.S.B.A. program. An additional fee is associated with this course. Fall, Spring.

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. This course is co-listed with MGT 5425. Prerequisite(s): MGT 3325 and Admission to the BSBA program, or MGT 3325 and declared management minor. An additional fee is associated with this course. Fall, Spring.

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. *May be repeated for a maximum of 6 semester hours.* Prerequisite(s): all pre-admission courses, MGT 3315, and school chair's approval with adequate preparation in area to be studied. An additional fee is associated with this course.

MGT 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. Prerequisite(s): Admission to the B.S.B.A. program, FIN 3850, MGT 3315, MGT 3325, MKT 3405, and senior standing. An additional fee is associated with this course. Fall, Spring, Summer.

MGT 4370 - Applications in 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(s): Admission to the BSBA program or declared management minor or permission of school chair. An additional fee is associated with this course. Fall, Spring.

MGT 4800 - Organizational Development and Personal Praxis (3)

Extends and deepens students' ability to act effectively as leaders, coaches, and managers. It gives students tools to improve their own personal practice through self-reflection and self-discovery in order to effectively develop the organizations, teams, and individuals they lead. Integral to the course is a semester-long organization development project that involves a team, class, or organization of the students' choosing. Through the process of coaching and facilitating students will learn about their own behavioral patterns and how they can become more effective. During the course students will engage in multiple cycles of Planning, Action, Inquiry, and Reflection (PAIR), with classroom discussion providing insights and collaborative learning. Prerequisite(s): MGT 3315, MGT 3320 and Admission to the B.S.B.A. program or Management Minor or school consent. An additional fee is associated with this course.

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 1401 - Professional Speaking and Presentation GE (3)

A comprehensive, application based course to prepare students to communicate effectively with an audience. Students will apply communication strategies and skills in a variety of settings relevant to students across all disciplines. Students will learn to identify the types of rhetoric and their beneficial applications, with additional emphasis on persuasive techniques.

UCM General Education Competency: This course fulfills Foundational Skills Competency #2 in the Communication area of the UCM General Education Program.

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. An additional fee is associated with this course.

MKT 3405 - Principles of Marketing (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 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. Prerequisite(s): 60 semester hours of college credit. An additional fee is associated with this course. Fall, Spring, Summer.

MKT 3410 - Retail Management (3)

The initial considerations and decisions for establishing and managing a retail store. Prerequisite(s): MKT 3400 or MKT 3405. An additional fee is associated with this course. Fall, Spring.

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(s): MKT 3400 or MKT 3405 or AGRI 3120. An additional fee is associated with this course. Fall, Spring, Summer.

MKT 3430 - Professional Sales (3)

This course introduces students to the basic selling process and strategies used by today's firms. Through coursework, projects, and role-plays students develop an understanding of the principles of persuasion, relationship building, problem-solving strategies, and relationship/consultative selling. An additional fee is associated with this course.

MKT 3435 - Internship in Marketing (1-6)

Opportunity for students to gain theoretical knowledge and practical application within a particular field of specialization. Prerequisite(s): Admission to the B.S.B.A. program, MKT 3405, overall GPA of 2.50 or above and consent of internship director. Fall, Spring, Summer.

MKT 3445 - 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. Prerequisite(s): MKT 3405. An additional fee is associated with this course. Spring.

MKT 3450 - Digital Marketing (3)

Introduces the concepts, analyses, and activities that comprise marketing management in digital and interactive media, as well as social media approaches to digital marketing strategy. An additional fee is associated with this course.

MKT 3475 - Marketing Research (3)

Applications of research methods to the problems of marketing. Prerequisite(s): MKT 3405. Fall, Spring, Summer

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(s): MKT 3400 or MKT 3405. An additional fee is associated with this course. Fall, Spring, Summer.

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. Corequisite(s): special sections of MGT 3315, MKT 3405 and CIS 3630. An additional fee is associated with this course. Fall, Spring.

MKT 4410 - Advanced Professional Sales (3)

Designed to combine personal selling theory with actual practice. It will build on and further expand students' present understanding of the basic selling process. Designed for students who are planning or strongly considering a career in professional sales. This course is co-listed with MKT 5510. Prerequisite(s): MKT 3405 and MKT 3430. An additional fee is associated with this course. Fall.

MKT 4420 - Sales Management (3)

This class focuses on aspects involved in managing an organization's personal selling function. This course is co-listed with MKT 5520. Prerequisite(s): MKT 3405 and MKT 3430. An additional fee is associated with this course. Spring.

MKT 4440 - Seminar in Brand Management (3)

The goal of this course is to provide students with the fundamental skills needed to create, build, and maintain original brands. This course is co-listed with MKT 5440. Prerequisite(s): MKT 3405; Admission to the B.S.B.A. program. An additional fee is associated with this course.

MKT 4450 - Integrated Marketing Communication (3)

Determination of the correct blend of advertising, personal selling, sales promotion, and publicity. This course is co-listed with MKT 5450. Prerequisite(s): MKT 3405; Admission to the B.S.B.A. program. An additional fee is associated with this course. Fall.

MKT 4454 - Sports Marketing (3)

The course will discuss the marketing of sports at professional, collegiate, and special event levels focusing on the role marketing plays in planning and decision making in attracting fans and sponsors. This course is co-listed with MKT 5454. Students who have earned credit for MKT 4454 may not take MKT 5454 for graduate credit. An additional fee is associated with this course.

MKT 4460 - International Marketing (3)

Marketing policies and practices in foreign trade. Prerequisite(s): MKT 3405; Admission to the B.S.B.A. program. An additional fee is associated with this course. Fall, Spring, Summer.

MKT 4475 - Services Marketing (3)

Provides a study of the issues and concepts unique to the marketing of services including relationship marketing, service quality and customer satisfaction, service failure and recovery, and service delivery. This course is co-listed with MKT 5475. Students enrolled in MKT 4475 may not also take MKT 5475 for graduate credit. An additional fee is associated with this course.

MKT 4480 - Special Projects in Marketing (1-3)

Individualized or group study under supervision of school faculty. *May be repeated for a maximum of 6 semester hours.* Prerequisite(s): school chair approval. An additional fee is associated with this course. Offered as needed.

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. Prerequisite(s): MKT 3405, Admission to the B.S.B.A. program, and last semester in program. An additional fee is associated with this course. Fall, Spring.

MATH 1000 - Special Projects in Mathematics (1-3)

Individual or group work on introductory level mathematical topics. *May be repeated for a maximum of 3 credit hours.* Prerequisite(s): Instructor approval.

MATH 1010 - Fundamentals of 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. Prerequisite(s): consent required. Fall, Spring, Summer.

MATH 1020 - Fundamentals of Mathematics (3)

An introduction to various branches of mathematics including basic algebra, geometry, set theory, probability and statistics. Content involves work with rational numbers and word problems. Prerequisite(s): consent required.

MATH 1040 - Introduction to the Mathematical Sciences (1)

This course is designed to help the first-year student to: actively explore critical thinking, develop a sense of belonging to UCM and the School of Computer Science and Mathematics, develop self-awareness and responsibility, and gain an increased interest in their respective program. Prerequisite(s): A major in Actuarial Science and Statistics, Mathematics, or Bioinformatics.

MATH 1101 - Intermediate Algebra (3)

The properties of real numbers, polynomials, rational exponents, radicals, functions, and systems of equations. Prerequisite(s): high school credit in basic algebra or MATH 1010. Placement according to University policy applies.

MATH 1110 - Essential Skills for College Algebra (2)

This course is a corequisite for the general education math course MATH 1111 College Algebra. This course will help students master the fundamental algebraic and mathematics skills needed for success in the college-level course MATH 1111. Prerequisite(s): Placement scores according to University Planned Placement Policy and high school credit in basic algebra. Corequisite(s): Concurrent enrollment in MATH 1111 required.

MATH 1111 - College Algebra GE (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(s): high school program including advanced algebra or MATH 1101. Placement according to University policy applies.

UCM General Education Competency: This course fulfills Knowledge Competency #7 and Foundational

Skills Competency #3 in the Mathematics area of the UCM General Education Program.

This course is equivalent to MOTR MATH 130 Pre-Calculus Algebra in the Mathematical Sciences Knowledge Area.

MATH 1112 - College Trigonometry (2)

Elementary trigonometric functions, identities, trigonometric equations, multiple angle formulas, and general triangle solutions. Prerequisite(s): a high school program including advanced algebra and one unit of geometry; or MATH 1111 or concurrently. Placement according to University policy applies.

MATH 1131 - Applied Calculus GE (3)

The fundamental skills and concepts of calculus with an emphasis on applications in engineering, science and technology. Prerequisite(s): a high school program including one unit of advanced algebra and one unit of geometry, or MATH 1111. Placement according to University policy applies.

UCM General Education Competency: This course fulfills Knowledge Competency #7 and Foundational Skills Competency #3 in the Mathematics area of the UCM General Education Program.

MATH 1150 - Pre-Calculus Mathematics GE (5)

Pre-calculus concepts in algebra and trigonometry for the student with an above average preparation in high school mathematics. Prerequisite(s): Placement scores according to University Planned Placement Policy and a high school program including advanced algebra, one unit of geometry, and one-half unit of trigonometry. Corequisite(s): This course fulfills Knowledge Competency #7 and Foundational Skills Competency #3 in the Mathematics area of the UCM General Education Program. Fall, Spring.

This course is equivalent to MOTR MATH 150 Pre-Calculus in the Mathematical Sciences Knowledge Area.

MATH 1151 - Calculus I GE (5)

Elementary analytic geometry and, for functions of a single variable: limits, continuity, derivatives and their applications, and an introduction to integration. Prerequisite(s): a high school program including advanced algebra, one unit of geometry, and one-half unit of trigonometry; or MATH 1112 or MATH 1150. Fall, Spring. Placement according to University policy applies.

UCM General Education Competency: This course fulfills Knowledge Competency #7 and Foundational Skills Competency #3 in the Mathematics area of the UCM General Education Program.

MATH 1152 - Calculus II (5)

A continuation of MATH 1151. Topics include advanced integration techniques and applications, sequences and series of constants, power series and issues of convergence, conic sections, an introduction to parametric and polar equations, vectors and geometries of space, and vector-valued functions. Prerequisite(s): MATH 1151. Fall, Spring.

MATH 1161 - Instructional Support for Calculus I (1)

Provides additional support and instruction on the concepts taught in MATH 1151. Corequisite(s): MATH 1151.

MATH 1162 - Instructional Support for Calculus II (1)

Provides additional support and instruction on the concepts taught in MATH 1152 - Calculus II (5). Corequisite(s): MATH 1152.

MATH 1215 - The Mathematics of Decision Making GE (3)

A conceptual mathematical introduction to escalation modeling, game-theoretic modeling, international conflicts, voting systems, apportionment, and political power. Prerequisite(s): Advanced High School algebra or MATH 1101. Placement according to University policy applies.

UCM General Education Competency: This course fulfills Knowledge Competency #7 and Foundational Skills Competency #3 in the Mathematics area of the UCM General Education Program.

MATH 1510 - Essential Skills for MATH 1520 (2)

This course is a corequisite for the general education math course MATH 1520 Mathematical Reasoning and Modeling. This course will help students master the fundamental and technical mathematics skills needed for success in the college-level course MATH 1520. Prerequisite(s): Placement scores according to University Planned Placement Policy and high school credit in basic algebra; or a C or better in MATH 1010 or MATH 1020. Corequisite(s): Concurrent enrollment in MATH 1520 required.

MATH 1520 - Mathematical Reasoning & Modeling GE (3)

A comprehensive overview of mathematical skills including drawing conclusions, making decisions, and communicating effectively in mathematical situations. Topics include proportional reasoning, statistical reasoning, and mathematical modeling. Prerequisite(s): Placement according to University Planned Placement Policy and a high school program including advanced algebra; or C or better in MATH 1101 or higher math course. Alternative Co-requisite: Placement according to University Planned Placement Policy and concurrent enrollment in MATH 1510.

UCM General Education Competency: This course fulfills Knowledge Competency #7 and Foundational Skills Competency #3 in the Mathematics area of the UCM General Education Program.

This course is equivalent to MOTR MATH 120 Mathematical Reasoning & Modeling in the Mathematical Sciences Knowledge Area.

MATH 1610 - Essential Skills for MATH 1620 (2)

Provides support for introductory set theory, geometry, probability, statistics and other topics covered in MATH 1620. Prerequisite(s): MATH 1010 or MATH 1020 with a grade of C or better or placement according to University policy. Corequisite(s): MATH 1620.

MATH 1620 - Introduction to Geometry and Decision Making for Educators GE (3)

A study of mathematical concepts from various branches of mathematics including basic Euclidean geometry and informed decision making using probability and statistics. Prerequisite(s): a high school

program including advanced algebra or MATH 1101 or higher MATH course or corequisite of MATH 1610. Placement according to University policy applies.

UCM General Education Competency: This course fulfills Knowledge Competency #7 and Foundational Skills Competency #3 in the Mathematics area of the UCM General Education Program.

MATH 1810 - Essential Skills for MATH 1820 (2)

Provides support for mathematical modeling including logic, equations, inequalities, linear programming and other topics covered in MATH 1820. Prerequisite(s): MATH 1010 or MATH 1020 with a grade of C or better or placement according to University policy. Corequisite(s): MATH 1820.

MATH 1820 - Introduction to Numbers and Operations for Educators GE (3)

A study of mathematics that introduces the real number system and mathematical modeling, based on the use of elementary functions to describe and explore real-world data and phenomena. Prerequisite(s): High school algebra, MATH 1101, or higher MATH course or corequisite of MATH 1810. Placement according to university policy applies.

UCM General Education Competency: This course fulfills Knowledge Competency #7 and Foundational Skills Competency #3 in the Mathematics area of the UCM General Education Program

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 2000 - Mathematical Problem Solving (0.5)

A participation-based seminar in mathematical problem solving as preparation for participation in various regional and national mathematics competitions *May be repeated for a maximum of 3 semester hours.* Prerequisite(s): MATH 1152.

MATH 2153 - Calculus III (3)

A continuation of MATH 1152. Topics include differential calculus of functions of more than one variable, directional derivatives, Lagrange multiplier techniques, double and triple integration, and the calculus of vector fields. Prerequisite(s): MATH 1152. Fall, Spring.

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(s): One unit of high school geometry. Fall.

MATH 2410 - Discrete Mathematics (3)

Logic and argumentation; mathematical proof techniques; sets, relations and mappings; counting and the natural numbers; modular arithmetic; permutations, combinations, and discrete probabilities; etc. Prerequisite(s): MATH 1150 or MATH 1151 or concurrent enrollment in either. Fall, Spring.

MATH 2820 - Elementary Mathematics from an Advanced Perspective (3)

An investigation of the mathematics concepts taught in the elementary grades and how those concepts provide a foundation for the mathematics studied in middle and high school. Prerequisite(s): MATH 1620 and MATH 1820.

This is a professional education course.

MATH 2821 - Elements of Algebra (3)

Basic concepts of algebra adapted to the needs of elementary teachers. Prerequisite(s): MATH 1620. Fall.

MATH 2822 - Elements of Geometry (3)

Concepts and relationships of geometry adapted to the needs of elementary/middle school teachers. Prerequisite(s): MATH 1620.

MATH 2823 - 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. degree. Prerequisite(s): MATH 2822.

MATH 2824 - Infinite Processes I (3)

An introduction to the infinite processes that form the foundation for the calculus. Topics include limits, continuity, derivatives, and applications of derivatives. Open only to elementary and middle school/junior high education majors. Prerequisite(s): MATH 2821.

MATH 2825 - Infinite Processes II (2)

A continuation of the study of the infinite processes that form the foundation for the calculus. Topics include integrals and the application of integration. Open only to elementary and middle school/junior high education majors. Prerequisite(s): MATH 2824.

MATH 2861 - Advanced Perspectives on High School Mathematics (3)

Investigation of the real number system as studied in high school mathematics from an advanced perspective. Prerequisite(s): MATH 1151.

MATH 2862 - Advanced Perspective on Secondary Geometry and Trigonometry (3)

Investigation of high school geometry and trigonometry from an advanced standpoint. Prerequisite(s): MATH 1151 and MATH 2221.

MATH 3151 - Differential Equations (3)

Techniques of solving ordinary differential equations with applications to physics and engineering. Prerequisite(s): MATH 2153. Spring.

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(s): MATH 2221. Spring.

MATH 3710 - Linear Algebra (3)

An introduction to matrices, determinants, vector spaces and linear transformations. Prerequisite(s): MATH 2410 or CS 2400. Fall, Spring.

MATH 3800 - Teaching and Learning Numbers and Operations (3)

Provides a study of the concepts and methods used in the teaching of numbers and operations in the elementary grades. Prerequisite(s): MATH 1620.

This is a professional education course.

MATH 3801 - Teaching and Learning of Geometry and Measurement (3)

A study of the mathematical concepts and instructional methods related to measurement and geometry in the elementary grades. Prerequisite(s): MATH 1620.

This is a professional education course.

MATH 3802 - Concepts and Methods in Middle School Mathematics (3)

An investigation of the concepts and methods of teaching mathematics in grades 5-9. Prerequisite(s): MATH 1620.

MATH 3840 - Strategies in Teaching Middle School Mathematics (3)

An investigation of techniques, problems, and issues involved in the teaching of middle school mathematics. Not applicable to major requirements for secondary majors. Prerequisite(s): MATH 2821 and MATH 2822. Fall.

This is a professional education course.

MATH 3850 - Strategies in Teaching Secondary Mathematics (3)

An investigation of instructional strategies, problems and issues relevant to the teaching of secondary school mathematics. Prerequisite(s): MATH 1152, MATH 2221, MATH 2410 and MATH 2861.

This is a professional education course.

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(s): MATH 1620. Fall, Summer.

This is a professional education course.

MATH 4150 - Advanced Calculus I (3)

A rigorous approach to the fundamental concepts of differential and integral calculus of functions of a single variable. This course is co-listed with MATH 5100. Prerequisite(s): MATH 2153, and MATH 3710 or MATH 4710. Fall.

MATH 4171 - Functions of a Complex Variable (3)

General properties of analytic functions of a complex variable with applications. This course is co-listed with MATH 5172. Prerequisite(s): MATH 2153. Spring.

MATH 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(s): MATH 1152 and 9 credit hours of college mathematics at the 2000 level or above. Spring.

This is a professional education course.

MATH 4400 - Combinatorics (3)

Principles of enumeration, integer sequences, advanced binomial coefficients, inclusion-exclusion principle, recurrence relations and generating functions, and special counting sequences. This course is co-listed with MATH 5400. Prerequisite(s): MATH 2410.

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. This course is co-listed with MATH 5450. Prerequisite(s): CS 2400 or MATH 2410. Spring.

MATH 4710 - Algebraic Structures (3)

A study of groups, rings and fields with an emphasis in the study of roots of polynomials. This course is co-listed with MATH 5700. Prerequisite(s): MATH 2410 and MATH 3710.

MATH 4711 - Modern Algebra I (3)

A rigorous introduction to the algebraic structures of groups, rings and fields. This course is co-listed with MATH 5705. Prerequisite(s): MATH 4710.

MATH 4741 - Introduction to the Theory of Numbers (3)

Congruences, quadratic residues, the reciprocity theorem, and Diophantine equations. This course is co-listed with MATH 5741. Prerequisite(s): MATH 4710.

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. This course is co-listed with MATH 5851 Prerequisite(s): MATH 2821 and MATH 2822, or MATH 1151.

MATH 4870 - Methods of Teaching Mathematics (2)

Prerequisite(s): 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. Fall, Spring.

This is a professional education course.

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 4710 is a requisite. Prerequisite(s): MATH 2821 or equivalent course in college algebra. Spring.

MATH 4880 - Issues and Methods of Teaching Secondary Mathematics (3)

An investigation of methods, issues, and resources relevant to the teaching of secondary school mathematics. To be taken the semester prior to student teaching. Prerequisite(s): admission to Teacher Education Program.

This is a professional education course.

MATH 4890 - Mathematics for Special Education (3)

An investigation of the teaching and learning of statistics, probability, geometry, and algebraic thinking concepts appropriate for special needs children. This course is co-listed with MATH 5890. Prerequisite(s): EDSP 2100. Spring, Summer.

This is a professional education course.

MATH 4910 - Special Problems in Mathematics (1-3)

Individual reading and research on some topic not included in the regular offerings of the school. *May be repeated for a maximum of 6 semester hours in the major and a maximum of 9 total semester hours in an undergraduate degree.* Prerequisite(s): mathematics major.

MATH 4912 - Internship in Mathematical Sciences (1-8)

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 school'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(s): Consent of Mathematics Faculty Committee.

MATH 4973 - Engaging Secondary Mathematics Learners (1)

An exploration of instructional strategies and classroom management techniques that result in enhanced engagement of secondary students in the study of mathematics. Corequisite(s): FLDX 4970, MATH 4880, and MATH 4974.

This is a professional education course.

MATH 4974 - Assessment in the Mathematics Classroom (1)

An investigation of a variety of formal and informal assessment strategies used in the secondary mathematics classroom. Corequisite(s): EDFL 4970, FLDX 4970, MATH 4880, and MATH 4973.

This is a professional education course.

MLED 4130 - Fundamentals of Middle Level Education (4)

A 25 hour field experience course where students will gain an understanding of the unique developmental needs of early adolescents in middle school.

This is a professional education course.

MLED 4135 - Middle Level Curriculum and Assessment (4)

A 25 hour field experience course prepares students to design instructional units and classroom lessons using standards. Students will learn assessment strategies. Prerequisite(s): MLED 4130. An additional fee is associated with this course.

This is a professional education course.

MLED 4340 - The Engaging Middle Level Classroom (4)

A field experience course which prepares students to manage instruction and behavior for a positive classroom environment. Prerequisite(s): MLED 4130, Admission to Teacher Education Program.

This is a professional education course.

MS 1110 - Introduction to the Army and Critical Thinking (2)

Introduces the personal challenges and competencies that are essential for effective leadership, critical thinking, and communication. Students learn how the personal development of life skills such as cultural understanding, goal setting, time management, stress management, and comprehensive fitness relate to leadership, critical thinking, and the Army profession. Fall.

MS 1120 - Introduction to the Profession of Arms (2)

Introduces the professional challenges and competencies that are needed for effective execution of the profession of arms and Army communication. Students will learn how Army ethics and values shape the army and the specific ways that these ethics are inculcated into Army culture. Students will gain practical experience using critical communication skills. Prerequisite(s): MS 1110 or consent of school chair. Spring.

MS 2210 - Foundations of Leadership (2: 2 lecture, 0 lab)

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. Prerequisite(s): MS 1120 or equivalent or consent of the school chair. Fall.

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. Prerequisite(s): MS 2210 or equivalent or consent of the school chair. Spring.

MS 2500 - History of the US Army (3)

Integrates the basic knowledge of military history into the education of future Army officers. Prerequisite(s): departmental consent.

MS 2510 - Cadet Basic Camp (3)

Introduces students to Army life and leadership training of the Reserve Officers' Training Corps. Course is conducted for four weeks during the summer. Transportation, room, board, military clothing, and a salary are provided. Prerequisite(s): departmental consent. Summer.

MS 3310 - Platoon Operations (3: 3 lecture, 0 lab)

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. Prerequisite(s): MS 2220. Corequisite(s): MS 3330. Fall.

MS 3320 - Applied Leadership in Platoon Operations (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. Prerequisite(s): MS 3310 and MS 3330. Corequisite(s): MS 3340. Spring.

MS 3330 - Introduction to the Army Physical Fitness Program (2)

Basic components of fitness and an overview of the principles of exercise. Fall.

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. Prerequisite(s): MS 3330. Spring.

MS 4410 - Mission Command and the Army Profession (3: 3 lecture, 0 lab)

Explores the dynamics of leading in the complex situations of current military operations. Students will examine differences in customs and courtesies, military law, principles of war, and rules of engagement in the face of international terrorism. Students explore aspects of interacting with non-government

organizations, civilians on the battlefield, the decision making processes and host nation support. Prerequisite(s): MS 3320 and MS 3340. Corequisite(s): MS 4430. Fall.

MS 4420 - Mission Command and Company Grade Officer (3)

Explores the dynamics of leading in the complex situations during unified land operations, examines the Art of Command and how to properly communicate with your NCOs and Soldiers. Students will discuss numerous situations on how ethical decisions impact personnel and the unit mission. Also examines the importance of understanding culture and how it can affect your unit and mission and develops both oral and written communication skills by conducting a battle analysis and briefs. Prerequisite(s): MS 4410 and MS 4430. Corequisite(s): MS 4440. Spring.

MS 4430 - Management of the Unit Fitness Program (2)

Alternate athletic activities and risk assessment planning. Prerequisite(s): MS 3340. Fall.

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. Prerequisite(s): MS 4430. Spring.

MS 4500 - Current Military Trends (3)

Continues a student's transition from being a Cadet to learning how to be an Army Officer. It will build on skills that Cadets have already learned. This course will enhance knowledge and proficiency as an officer through exploration of military trends and scenarios to produce military officers who are better prepared for their first duty assignment. Prerequisite(s): MS 4420. Fall.

MS 4501 - Current Military Trends II (3)

Continues the transition from being a Cadet to learning how to be an Army Officer. It builds on the skills Cadets have learned in their previous Military Science courses. Topics may include: the Military Decision Making Process, Army Writing Style, and the Army's Training Management and METL Development processes, along with current trends and changes in the Army. Prerequisite(s): MS 4500. Spring.

MS 4510 - Cadet Advanced 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(s): MS 3320 and departmental consent. Summer.

MSC 2110 - Police Academy I (3)

The first of five classes that together constitute the Central Missouri Police Academy course. These classes include the mandatory curriculum of the 600 hour, Missouri POST Class A course. This is not an open enrollment course; applicants must first be approved by the CMPA Director.

MSC 2120 - Police Academy II (3)

The second of five classes that together constitute the Central Missouri Police Academy course. These classes include the mandatory curriculum of the 600 hour, Missouri POST Class A course. This is not an open enrollment course; applicants must first be approved by the CMPA Director.

MSC 2130 - Police Academy III (3)

The third of five classes that together constitute the Central Missouri Police Academy course. These classes include the mandatory curriculum of the 600 hour, Missouri POST Class A course. This is not an open enrollment course; applicants must first be approved by the CMPA Director.

MSC 2140 - Police Academy IV (3)

The fourth of five classes that together constitute the Central Missouri Police Academy course. These classes include the mandatory curriculum of the 600 hour, Missouri POST Class A course. This is not an open enrollment course; applicants must first be approved by the CMPA Director.

MSC 2150 - Police Academy V (3)

The fifth of five classes that together constitute the Central Missouri Police Academy course. These classes include the mandatory curriculum of the 600 hour, Missouri POST Class A course. This is not an open enrollment course; applicants must first be approved by the CMPA Director.

MSC 2155 - Police Academy VI (3)

The sixth of six classes that together constitute the Central Missouri Police Academy course. These classes include the mandatory curriculum of the 600 hour, Missouri POST Class A course and 240 hours of Supplemental training. This is not an open enrollment course; applicants must first be approved by the CMPA Director.

MSC 2160 - Applications of Criminal Justice in Law Enforcement (3)

Based on the Missouri Peace Officer Standards and Training (POST) curriculum for police academies. A compilation of excerpts taken from the currently approved police academy courses for free elective academic credit. Will complement and expand the students' knowledge, reinforcing their Criminal Justice education.

MSC 2210 - Driver Education I - Introduction to Safety Education (3)

An introductory course in the principles and fundamentals of safety education covering the concern for safety as a social problem and considers major accident areas, accident causes, liability and analyzes possible solutions to the accident problem.

MSC 2220 - Driver Education II - Driver Task Analysis (3)

Designed as an introduction to the task of the driver within the highway transportation system (HTS) with emphasis on risk perception, risk management and the decision making process.

ML 1040 - Special Projects in Modern Languages GE (1-3)

Small-group instruction at the introductory level. *May be repeated for a maximum of 12 semester hours.*

UCM General Education Competency: This course fulfills Knowledge Competency #6 and reinforces Foundational Skills Competency #2 in the Languages area of the UCM General Education Program.

ML 2000 - World Literatures in Translation GE (3)

The class will explore social and intellectual forces of literature in translation, while keeping a close eye on how the original is changed in translation. Additionally, students will discuss the nature of translation, and will learn basic elements of the language which are relevant to the texts studied. Prerequisite(s): ENGL 1020 and (ENGL 1030 or CTE 3060); or ENGL 1080 with a grade of C or higher.

UCM General Education Competency: This course fulfills Knowledge Competency #6 and reinforces Foundational Skills Competency #1 in the Literature area of the UCM General Education Program.

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 school chair. This course is co-listed with ML 5010. *May be repeated for a maximum of 12 semester hours.*

ML 4040 - Special Projects in Foreign Language (1-3)

Individualized and group instruction in foreign and modern languages. This course is co-listed with ML 5040. *May be repeated for a maximum of 6 semester hours.* Prerequisite(s): consent of school chair.

ML 4050 - Language in the Professions/Translation (3)

Translation theory and practice related to professional fields. To be taken the semester prior to graduation. Prerequisite(s): instructor consent.

This is a professional education course.

ML 4054 - Methods of Teaching Foreign Languages (3)

Prerequisite(s): admission to Teacher Education Program; double majors must take a methods course for each major.

This is a professional education course.

MUS 1000 - Recital Attendance (0)

Laboratory in music listening and musical performance. Attendance at a designated number of Music sponsored or approved concerts. May be taken for pass/fail credit only. *May be repeated.*

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 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)

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.* Prerequisite(s): Music faculty permission

MUS 1097 - String Ensemble (1)

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.* Prerequisite(s): Music faculty permission

MUS 1098 - Chamber Winds and Percussion (1)

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.* Prerequisite(s): Music faculty permission

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)

Roman numerals, seventh chords, part writing, diatonic harmony, and harmonic analysis. Prerequisite(s): Admission by examination or completion of MUS 1100 with grade of C or better. Corequisite(s): MUS 1121 for music majors and minors.

MUS 1112 - Theory II (3)

Secondary dominant and leading-tone chords; analysis of small forms: sentence, period, hybrids, ternary form, simple binary, and rounded binary. Prerequisite(s): MUS 1111. Corequisite(s): 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(s): Admission by examination or completion of MUS 1100 with grade of C or better. Corequisite(s): 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(s): MUS 1121. Corequisite(s): MUS 1112.

MUS 1210 - Experiencing Music GE (3)

An introduction to important musical masterpieces with emphasis on the knowledge and skills involved in perceptive listening. Prerequisite(s): no previous musical experience is necessary.

UCM General Education Competency: This course fulfills Knowledge Competency #6 and reinforces Foundational Skills Competency #4 in the Fine Arts area of the UCM General Education Program.

This course is equivalent to MOTR MUSC 100 Music Appreciation in the Humanities & Fine Arts Knowledge Area.

MUS 1220 - The Evolution of a Popular Art: An Introduction to Rock Music GE (3)

An introduction to the development of rock music and its precursors in the United States during the period 1900-present.

UCM General Education Competency: This course fulfills Knowledge Competency #6 and reinforces Foundational Skills Competency #4 in the Fine Arts area of the UCM General Education Program.

MUS 1225 - Music of the World's Cultures GE (3)

Gives the student a basic knowledge and understanding of global cultures, particularly those outside the European or Euro-American cultural sphere, and examines how diverse people have been influenced by music.

UCM General Education Competency: This course fulfills Knowledge Competency #9 and Foundational Skills Competency #4 in the Engagement area of the UCM General Education Program.

MUS 1281 - History and Development of Jazz GE (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. Spring, in even numbered years only

UCM General Education Competency: This course fulfills Knowledge Competency #6 and reinforces Foundational Skills Competency #4 in the Fine Arts area of the UCM General Education Program.

MUS 1390 - Introduction to Music Education (2)

Introduction to the field of music education including examination of the purposes and basic methodologies for music teaching and careers in music education. Prerequisite(s): admission to the undergraduate program in music education or with departmental approval. An additional fee is associated with this course.

MUS 1400 - Computer Music Notation (0.5)

Introduction to notating music with computer software. An additional fee is associated with this course.

MUS 1410 - Fundamentals of Music Technology I : Hardware (0.5)

Overview of music technology and audio hardware, including basic operating principles, terminology, and real-world applications.

MUS 1420 - Fundamentals of Music Technology I : Software (0.5)

Overview of music technology and audio software, including basic operating principles, terminology, and real-world applications.

MUS 1450 - Audio and Acoustics GE (3)

Practical approach to the principles of audio and acoustics. Physical properties of sound, propagation and interaction of sound with various environments and obstacles, and an introduction to techniques for controlling and manipulating sound in structures. Operating principles of digital and analog audio, including transduction, time- and frequency-domain analysis, and sampling theory. An additional fee is associated with this course.

UCM General Education Competency: This course fulfills Knowledge Competency #7 and reinforces Foundational Skills Competency #3 in the METS (Mathematics, Engineering, Technology, and Science) area of the UCM General Education Program.

MUS 1460 - Music Technology Performance I (2)

Class study of performing live music with technology. Performance skills; basic instrument customization and optimization; improvisation; songwriting/composition; basic interpretation and aesthetics of performance. Technical skills as needed to interface individuals' instruments with various performance systems. *May be repeated for a maximum of 8 semester hours.* Prerequisite(s): successful completion of entrance exam required for initial enrollment. An additional fee is associated with this course.

MUS 1470 - Fundamentals of Music Technology II (1)

Fundamentals of Music Technology and Audio Production. Signal Processing, system operation, and other core topics. Prerequisite(s): MUS 1410 and MUS 1420.

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(s): 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. *May be repeated.* Prerequisite(s): initial enrollment by permission of applied area faculty. An additional fee is associated with this course.

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(s): Successful completion of admission audition required for initial enrollment. An additional fee is associated with this course.

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(s): Successful completion of admission audition required for initial enrollment.

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(s): 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(s): 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. *May be repeated.* Prerequisite(s): initial enrollment by permission of applied area faculty. An additional fee is associated with this course.

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(s): Successful completion of admission audition required for initial enrollment. An additional fee is associated with this course.

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(s): entrance by audition.

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 - Beginning Guitar Class (2)

Prepares students in the basic fundamentals of guitar playing. Concepts of applied music theory will also be introduced.

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. *May be repeated.* Prerequisite(s): initial enrollment by permission of applied area faculty. An additional fee is associated with this course.

MUS 1710 - Violin I (1)

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(s): Successful completion of admission audition required for initial enrollment. An additional fee is associated with each course.

MUS 1715 - Viola I (1)

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(s): Successful completion of admission audition required for initial enrollment. An additional fee is associated with each course.

MUS 1720 - Cello I (1)

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(s): Successful completion of admission audition required for initial enrollment. An additional fee is associated with each course.

MUS 1725 - String Bass I (1)

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(s): Successful completion of admission audition required for initial enrollment. An additional fee is associated with each course.

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(s): Successful completion of admission audition required for initial enrollment. An additional fee is associated with this course.

MUS 1770 - Harp I (1)

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(s): Successful completion of admission audition required for initial enrollment.

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. *May be repeated.* Prerequisite(s): initial enrollment by permission of applied area faculty. An additional fee is associated with this course.

MUS 1810 - Flute I (1)

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(s): Successful completion of admission audition required for initial enrollment. An additional fee is associated with each course.

MUS 1815 - Clarinet I (1)

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(s): Successful completion of admission audition required for initial enrollment. An additional fee is associated with each course.

MUS 1820 - Oboe I (1)

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(s): Successful completion of admission audition required for initial enrollment. An additional fee is associated with each course.

MUS 1825 - Saxophone I (1)

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(s): Successful completion of admission audition required for initial enrollment. An additional fee is associated with each course.

MUS 1830 - Bassoon I (1)

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(s): Successful completion of admission audition required for initial enrollment. An additional fee is associated with each course.

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. *May be repeated.* Prerequisite(s): initial enrollment by permission of applied area faculty. An additional fee is associated with this course.

MUS 1910 - Trumpet I (1)

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(s): Successful completion of admission audition required for initial enrollment. An additional fee is associated with each course.

MUS 1915 - French Horn I (1)

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(s): Successful completion of admission audition required for initial enrollment. An additional fee is associated with each course.

MUS 1920 - Trombone I (1)

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(s): Successful completion of admission audition required for initial enrollment. An additional fee is associated with each course.

MUS 1925 - Baritone Horn I (1)

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(s): Successful completion of admission audition required for initial enrollment. An additional fee is associated with each course.

MUS 1930 - Tuba I (1)

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(s): Successful completion of admission audition required for initial enrollment. An additional fee is associated with each course.

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(s): Successful completion of admission audition required for initial enrollment. An additional fee is associated with this course.

MUS 2111 - Theory III (3)

Continuation of the materials and organization of music: modality, modulation, seventh chords, chromatic harmony, contrapuntal procedures, and form. Prerequisite(s): MUS 1112. Corequisite(s): MUS 2121.

MUS 2112 - Theory IV (3)

Continuation of MUS 2111. Analytical and compositional methods of twentieth and twenty-first century music. Prerequisite(s): MUS 2111. Corequisite(s): 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(s): MUS 1122. Corequisite(s): 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(s): MUS 2121. Corequisite(s): 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*. Prerequisite(s): MUS 1112 and MUS 1122. An additional fee is associated with this course.

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(s): 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(s): MUS 2180.

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(s): MUS 1100 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(s): MUS 1100 or consent.

MUS 2300 - Fundamentals of Conducting (3)

An introductory course in conducting including baton technique and basic score preparation. Prerequisite(s): MUS 1112 and MUS 1122 or concurrently.

MUS 2400 - Sound Reinforcement and Music Production (3)

Introductory theory and usage of audio equipment to produce recordings and provide sound reinforcement for live events. Application of informed musical judgment to the music production process. Prerequisite(s): MUS 1450 and MUS 1470. Corequisite(s): MUS 2420. An additional fee is associated with this course.

MUS 2410 - Digital Audio Production (3)

Theory and usage of digital audio hardware and software to produce music and other audio. Application of informed musical judgment to the audio production process. Prerequisite(s): MUS 1450 and MUS 1470. Corequisite(s): MUS 2420. An additional fee is associated with this course.

MUS 2420 - Technology Practicum (0)

Practical experience in audio recording, live sound reinforcement, and audio engineering facility management. *May be repeated.* Prerequisite(s): MUS 2400 or concurrently.

MUS 2501 - Piano Class III (1)

A continuation of MUS 1502 with additional emphasis on functional keyboard skills. *May be repeated.* Prerequisite(s): 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(s): 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(s): one year of college level private piano or consent of instructor. Fall, in even numbered years only

MUS 2631 - Diction for Singers I (1)

Systematic instruction in singing Italian and Ecclesiastical Latin repertoire emphasizing clear, correct, and expressive diction and a thorough understanding of the International Phonetic Alphabet (IPA), its rules and applications. Prerequisite(s): MUS 1610 or consent of instructor. An additional fee is associated with this course.

MUS 2632 - Diction for Singers II (2)

Systematic instruction in singing French and German art songs emphasizing clear, correct, and expressive diction. Prerequisite(s): MUS 1610 and MUS 2631. Spring, in even numbered years only

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.

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.

MUS 3060 - Junior Recital (1)

One-half of a public recital. Prerequisite(s): consent of instructor.

MUS 3070 - Women's Choir (1)

A choir of female voices that performs treble vocal music from all historical periods. *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 3095 - Piano Accompanying Practicum (1)

Instruction and supervised practical experience in piano accompanying on an individual basis. *May be repeated.* Prerequisite(s): MUS 2515.

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(s): MUS 2141. An additional fee is associated with this course.

MUS 3211 - Early Music (3)

Early history of western music, including the Medieval and Renaissance eras. Prerequisite(s): MUS 1111.

MUS 3212 - Music of the Common Practice Era GE (3)

History of music in the Baroque, Classical, and Romantic eras.

UCM General Education Competency: This course fulfills Knowledge Competency #6 and reinforces Foundational Skills Competency #4 in the Fine Arts area of the UCM General Education Program.

MUS 3213 - Music Since 1900 (3)

History of art and popular music in the twentieth and twenty-first centuries. Prerequisite(s): MUS 3212.

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.

This is a professional education course.

MUS 3305 - Methods of Teaching Elementary School Music (2)

Acquisition of materials and methodology for music majors who are preparing to teach music in the elementary schools. Includes examination of note and rhythm reading comprehension, fluency, strategies, practice skills, concept development, and critical thinking and analysis, especially within the context of music education for typical and atypical learners. Prerequisite(s): MUS 1112.

This is a professional education course.

MUS 3306 - Methods of Teaching Instrumental Music (2-3)

Methods, materials, and organization of the intermediate and secondary instrumental program, including development of administrative content and curricular design and development in both differentiated linear and vertical instructional structures. Intended for music majors who are preparing to teach instrumental music. Prerequisite(s): MUS 1112 and admission to the Teacher Education Program.

This is a professional education course.

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 3310 - Choral Conducting (3)

Techniques of choral conducting, rehearsal procedures, and basic choral repertoire. Prerequisite(s): MUS 2300.

MUS 3315 - Choral Techniques (3)

Aspects of choral singing and pedagogy, including the human voice and choral tone, choral diction, organization, rehearsal procedures, basic choral repertoire, and assessment. Prerequisite(s): MUS 3310 or concurrently, successful demonstration of keyboard competency and admission to the Teacher Education Program.

This is a professional education course.

MUS 3320 - Instrumental Conducting and Rehearsal Techniques (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. Prerequisite(s): MUS 2300, successful demonstration of keyboard competency and admission to the Teacher Education Program.

MUS 3400 - New Technologies Ensemble (1)

Study and performance of chamber and large ensemble music incorporating technology. Membership selected by audition. *May be repeated for a maximum of 8 semester hours.* Prerequisite(s): MUS 1460 or concurrently.

MUS 3460 - Music Technology Performance II (2)

Advanced class study of performing live music with technology. Advanced performance skills; instrument design, realization, customization, and optimization; improvisation; songwriting/composition; advanced interpretation and aesthetics of performance. Technical skills as needed to interface individuals' instruments with various performance systems. *May be repeated for a maximum of 8 semester hours.* Prerequisite(s): successful completion of departmental exam required for initial enrollment. An additional fee is associated with this course.

MUS 3510 - Piano II (1.5-3)

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(s): successful completion of lower level credit as determined by departmental examination. An additional fee is associated with this course.

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(s): successful completion of lower level credit as determined by departmental examination.

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(s): successful completion of lower level credit as determined by departmental examination. An additional fee is associated with this course.

MUS 3710 - Violin 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(s): successful completion of lower level credit as determined by departmental examination. An additional fee is associated with each course.

MUS 3715 - Viola 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(s): successful completion of lower level credit as determined by departmental examination. An additional fee is associated with each course.

MUS 3720 - Cello 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(s): successful completion of lower level credit as determined by departmental examination. An additional fee is associated with each course.

MUS 3725 - String Bass 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(s): successful completion of lower level credit as determined by departmental examination. An additional fee is associated with each course.

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(s): successful completion of lower level credit as determined by departmental examination. An additional fee is associated with this course.

MUS 3770 - Harp 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(s): Successful completion of lower credit as determined by departmental examination.

MUS 3810 - Flute II (1.5)

Advanced technical studies; standard solos; chamber ensemble playing. In addition to weekly lessons, attendance at biweekly studio classes is required. *May be repeated.* Prerequisite(s): successful completion of lower level credit as determined by departmental examination. An additional fee is associated with each course.

MUS 3815 - Clarinet II (1.5)

Advanced technical studies; standard solos; chamber ensemble playing. In addition to weekly lessons, attendance at biweekly studio classes is required. *May be repeated.* Prerequisite(s): successful completion of lower level credit as determined by departmental examination. An additional fee is associated with each course.

MUS 3820 - Oboe II (1.5)

Advanced technical studies; standard solos; chamber ensemble playing. In addition to weekly lessons, attendance at biweekly studio classes is required. *May be repeated.* Prerequisite(s): successful completion of lower level credit as determined by departmental examination. An additional fee is associated with each course.

MUS 3825 - Saxophone II (1.5)

Advanced technical studies; standard solos; chamber ensemble playing. In addition to weekly lessons, attendance at biweekly studio classes is required. *May be repeated.* Prerequisite(s): successful completion of lower level credit as determined by departmental examination. An additional fee is associated with each course.

MUS 3830 - Bassoon II (1.5)

Advanced technical studies; standard solos; chamber ensemble playing. In addition to weekly lessons, attendance at biweekly studio classes is required. *May be repeated.* Prerequisite(s): successful completion of lower level credit as determined by departmental examination. An additional fee is associated with each course.

MUS 3910 - Trumpet II (1.5)

Advanced technical studies; standard solos; chamber ensemble playing. In addition to weekly lessons, attendance at biweekly studio classes is required. *May be repeated.* Prerequisite(s): successful completion of lower level credit as determined by departmental examination. An additional fee is associated with each course.

MUS 3915 - French Horn II (1.5)

Advanced technical studies; standard solos; chamber ensemble playing. In addition to weekly lessons, attendance at biweekly studio classes is required. *May be repeated.* Prerequisite(s): successful completion

of lower level credit as determined by departmental examination. An additional fee is associated with each course.

MUS 3920 - Trombone II (1.5)

Advanced technical studies; standard solos; chamber ensemble playing. In addition to weekly lessons, attendance at biweekly studio classes is required. *May be repeated.* Prerequisite(s): successful completion of lower level credit as determined by departmental examination. An additional fee is associated with each course.

MUS 3925 - Baritone Horn II (1.5)

Advanced technical studies; standard solos; chamber ensemble playing. In addition to weekly lessons, attendance at biweekly studio classes is required. *May be repeated.* Prerequisite(s): successful completion of lower level credit as determined by departmental examination. An additional fee is associated with each course.

MUS 3930 - Tuba II (1.5)

Advanced technical studies; standard solos; chamber ensemble playing. In addition to weekly lessons, attendance at biweekly studio classes is required. *May be repeated.* Prerequisite(s): successful completion of lower level credit as determined by departmental examination. An additional fee is associated with each course.

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(s): successful completion of lower level credit as determined by departmental examination. An additional fee is associated with this course.

MUS 4000 - Special Projects in Music (0-3)

May be repeated for a maximum of 6 semester hours.

MUS 4010 - 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. This course is co-listed with MUS 5010. *May be repeated.* An additional fee is associated with this course.

MUS 4025 - University Symphony Orchestra (1: 1 lecture, 0 lab)

Performs concerts of standard and contemporary literature. Members selected by audition. This course is co-listed with MUS 5025. *May be repeated.* An additional fee is associated with this course.

MUS 4040 - Music Business Practices (3)

Covers copyright, performance rights, client management and interaction. This course is co-listed with MUS 5040. Prerequisite(s): ECON 1010. An additional fee is associated with this course. Fall, in odd numbered years only

MUS 4050 - University Concert Choir (1)

A select choir which performs the best of choral literature in concert. Membership selected by audition. This course is co-listed with MUS 5049. *May be repeated.* An additional fee is associated with this course.

MUS 4060 - Senior Recital (1-2)

Full length public recital. Prerequisite(s): consent of instructor.

MUS 4081 - 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. This course is co-listed with MUS 5081. *May be repeated.* An additional fee is associated with this course.

MUS 4088 - 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.* An additional fee is associated with this course.

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. This course is co-listed with MUS 5101. Prerequisite(s): MUS 2112 and MUS 2122. An additional fee is associated with this course. Fall, in even numbered years only

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. This course is co-listed with MUS 5115. Prerequisite(s): MUS 1400, MUS 2112 and MUS 2122. An additional fee is associated with this course.

MUS 4125 - Form and Analysis (3)

Small song forms, rondos, variations and sonata forms, with emphasis on aural analysis and score readings. This course is co-listed with MUS 5106. Prerequisite(s): MUS 2112 and MUS 2122 or concurrently. An additional fee is associated with this course. Fall, in odd numbered years only

MUS 4130 - Choral Arranging (2)

Practical arrangements for various choral ensembles for school organizations and church choirs. This course is co-listed with MUS 5130. Prerequisite(s): MUS 1400; MUS 2112 and MUS 2122 or concurrently. An additional fee is associated with this course. Fall, in even numbered years only

MUS 4181 - Advanced Jazz Improvisation (2)

Advanced study of jazz improvisation techniques in applied, private lessons. This course is co-listed with MUS 5181. *May be repeated*. Prerequisite(s): MUS 2181 or consent of instructor. An additional fee is associated with this course.

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. This course is co-listed with MUS 5185. Prerequisite(s): MUS 2112 and MUS 2122. An additional fee is associated with this course. Spring, in odd numbered years only

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. This course is co-listed with MUS 5186. *May be repeated*. Prerequisite(s): MUS 4185. An additional fee is associated with this course.

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. This course is co-listed with MUS 5190. Prerequisite(s): MUS 1112. An additional fee is associated with this course.

MUS 4195 - Max and MSP (3)

MIDI/Audio programming, application development, and music composition in the Max/MSP environment. This course is co-listed with MUS 5195. Prerequisite(s): MUS 2410.

MUS 4201 - Piano Literature Through Beethoven (2)

Survey and analysis of music written for clavichord, harpsichord, and piano through the music of Beethoven. This course is co-listed with MUS 5201. Prerequisite(s): four semesters of MUS 1510 or equivalent. An additional fee is associated with this course. Fall, in even numbered years only

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. This course is co-listed with MUS 5202. Prerequisite(s): four semesters of MUS 1510 or equivalent. An additional fee is associated with this course. Spring, in odd numbered years only

MUS 4230 - Choral Literature (3)

Music literature for all choral groups with emphasis on the performance style and interpretative problems of the choral conductor. This course is co-listed with MUS 5230. Prerequisite(s): MUS 3310. An additional fee is associated with this course. Spring, in odd numbered years only

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. This course is co-listed with MUS 5235.

Prerequisite(s): Two semesters of MUS 1610 or consent of instructor. An additional fee is associated with this course. Fall, in odd numbered years only

MUS 4240 - String Instrument Literature and Pedagogy (2)

A survey of literature, instructional materials, and pedagogy of the various string instruments. This course is co-listed with MUS 5251. Prerequisite(s): 12 semester hours credit on major instrument. An additional fee is associated with this course.

MUS 4245 - Woodwind Instrument Literature and Pedagogy (2)

A survey of literature, instructional materials, and pedagogy of woodwind instruments. This course is co-listed with MUS 5252. Prerequisite(s): 12 semester hours credit on major instrument. An additional fee is associated with this course. Spring, in even numbered years only

MUS 4250 - Brass Instrument Literature and Pedagogy (2)

A survey of literature, instructional materials, and pedagogy of brass instruments. This course is co-listed with MUS 5253. Prerequisite(s): 12 semester hours credit on major instrument. An additional fee is associated with this course. Spring, in even numbered years only

MUS 4255 - Percussion Literature and Pedagogy (2)

A survey of literature, instructional materials, and pedagogy of percussion instruments. This course is co-listed with MUS 5255. Prerequisite(s): 12 semester hours credit on major instrument. An additional fee is associated with this course. Spring, in odd numbered years only

MUS 4310 - Methods of Teaching Music (2)

Prerequisite(s): 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.

This is a professional education course.

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. This course is co-listed with MUS 5320. Prerequisite(s): MUS 3305 or MUS 3306 or consent of instructor. An additional fee is associated with this course. Fall, in odd numbered years only

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. Prerequisite(s): admission to Teacher Education Program; should be taken concurrently with MUS 4310 during the Professional Semester.

This is a professional education course.

MUS 4370 - Band Instrument Repair (2)

A study and practice of band instrument maintenance and repair techniques. This course is co-listed with MUS 5325. Prerequisite(s): one semester each of woodwind and brass study, or one year of teaching music in public schools. An additional fee is associated with this course. Fall, in even numbered years only

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(s): MUS 2300 and successful completion of the piano proficiency requirement.

MUS 4400 - Audio for X (3)

Tools, techniques, and creative approaches to creating audio and designing sound for various environments, including films, games, interactive media, and others. This course is co-listed with MUS 5500. Corequisite(s): MUS 4420. An additional fee is associated with this course.

MUS 4410 - Electronic Music Production Techniques (3)

Tools and techniques used in electronic music production, including MIDI, OpenSoundControl, synthesis, sampling, loops, and others. This course is co-listed with MUS 5410. Corequisite(s): MUS 4420. An additional fee is associated with this course.

MUS 4420 - Advanced Music Technology Practicum (0)

Advanced practical experience in audio recording and production, live sound reinforcement, and audio engineering facility management and maintenance. *May be repeated*. Prerequisite(s): MUS 4410 or concurrently or permission of instructor.

MUS 4430 - Seminar in Music Technology (2)

Advanced individual and/or group work in music technology and audio production. This course is co-listed with MUS 5430. *May be repeated for a maximum of 4 semester hours*. Prerequisite(s): MUS 4400 and MUS 4410.

MUS 4450 - 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(s): consent of the music technology coordinator.

MUS 4470 - Advanced Audio Production (3)

Advanced concepts and techniques in audio production and music technology. Stereo and surround recording techniques, signal processing chains, mixing techniques, mastering, and other advanced topics. Prerequisite(s): MUS 2400 and MUS 2410. Spring.

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. This course is co-listed with MUS 5511. Prerequisite(s): Two semesters

of MUS 1510 or equivalent. An additional fee is associated with this course. Fall, in odd numbered years only

MUS 4512 - Piano Pedagogy II - The Intermediate Student (3)

Goals, methods, and materials for teaching intermediate piano students. Includes practice teaching and observation. This course is co-listed with MUS 5512. Prerequisite(s): Two semesters of MUS 1510 or equivalent. An additional fee is associated with this course. Spring, in even numbered years only

MUS 4513 - Piano Pedagogy III - The Advanced Student (3)

Goals, methods, and materials of advanced piano teaching. Includes practice teaching and observation. This course is co-listed with MUS 5513. Prerequisite(s): Two semesters of MUS 1510 or equivalent. An additional fee is associated with this course. Fall, in even numbered years only

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. This course is co-listed with MUS 5514. Prerequisite(s): MUS 4511 or MUS 4512 or MUS 4513. An additional fee is associated with this course. Spring, in odd numbered years only

MUS 4515 - Practice Teaching in Piano (3)

Supervised teaching of piano students. Course must be repeated. This course is co-listed with MUS 5515. Prerequisite(s): MUS 4511 and MUS 4512. An additional fee is associated with this course. Spring.

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. This course is co-listed with MUS 5600. Prerequisite(s): three years of vocal training. An additional fee is associated with this course. Spring, in odd numbered years only

NET 1000 - Seminar in Networking Technology (1)

This is a forum to provide students an opportunity to learn current events in networking technologies through the use of guest speakers, open discussions and informative field trips. *May be repeated for a maximum of 2 semester hours.* An additional fee is associated with this course.

NET 1058 - Computer Technologies (3)

Introduction to computer architectures and operating systems. Includes PC hardware and DOS/Windows module over basic operating system fundamentals. An additional fee is associated with this course.

NET 1060 - Introduction to Networks (3: 2 lecture, 1 lab)

Introduces the architecture, structure, functions, components, and models of the Internet and other computer networks. The principles and structure of IP addressing and the fundamentals of Ethernet concepts, media, and operations are introduced to provide a foundation for the curriculum. By the end of the course, students

will be able to build simple Local Area Networks (LANs), perform basic configurations for routers and switches, and implement IP addressing schemes. An additional fee is associated with this course.

NET 1061 - Routers and Switching Essentials (3: 2 lecture, 1 lab)

Describes the architecture, components, and operations of routers and switches in a small network. Students learn how to configure a router and a switch for basic functionality. By the end of this course, students will be able to configure and troubleshoot routers and switches and resolve common issues with RIPv1, RIPng, single-area and multi-area OSPF, virtual LANs, and inter-VLAN routing in both IPv4 and IPv6 networks. Prerequisite(s): NET 1060. An additional fee is associated with this course.

NET 2060 - Scaling Networks (3: 2 lecture, 1 lab)

Describes the architecture, components, and operations of routers and switches in larger and more complex networks. Students learn how to configure routers and switches for advanced functionality. By the end of this course, students will be able to configure and troubleshoot routers and switches and resolve common issues with OSPF, EIGRP, and STP in both IPv4 and IPv6 networks. Students will also develop the knowledge and skills needed to implement a WLAN in a small-to-medium network. Prerequisite(s): NET 1061. An additional fee is associated with this course.

NET 2061 - Connecting Networks (3: 2 lecture, 1 lab)

Discusses the WAN technologies and network services required by converged applications in a complex network. The course enables students to understand the selection criteria of network devices and WAN technologies to meet network requirements. Students learn how to configure and troubleshoot network devices and resolve common issues with data link protocols. Students will also develop the knowledge and skills needed to implement virtual private network (VPN) operations in a complex network. Prerequisite(s): NET 2060. An additional fee is associated with this course.

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(s): NET 2060 or concurrent. An additional fee is associated with this course.

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(s): NET 2061. An additional fee is associated with this course.

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(s): NET 2061. An additional fee is associated with this course.

NET 3068 - Network Security I (4: 3 lecture, 1 lab)

This course will take an in depth look at Cisco router IOS security processes with emphasis on hands-on skills in the following areas: security policy design and management; security technologies, products and

solutions; firewall and secure router design, installation, configuration and maintenance; AAA implementation using routers and firewalls; VPN implementation using routers and firewalls. This course provides students with practical laboratory exercises to enhance their understanding of the material. Prerequisite(s): NET 1061. An additional fee is associated with this course.

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 using a Linux operating system. Prerequisite(s): NET 1058. An additional fee is associated with this course.

NET 4000 - Special Projects in Networking (1-3)

Investigation of contemporary problems and issues in networking. *May be repeated for a maximum of 6 semester hours.* An additional fee is associated with this course.

NET 4014 - Advanced Technical Problems in Networking (1-4)

Individual/Group work on recent developments and advanced technical concepts in networking. Experimentation and technical exploration of content not available through formal course offerings. Written contract /proposal with objectives and written school consent. *May be repeated for a maximum of 6 semester hours.* An additional fee is associated with this course.

NET 4040 - Fundamentals of Network Operating Systems (3)

Installing, configuring, and administering Network Operating Systems. Prerequisite(s): NET 1058. An additional fee is associated with this course.

NET 4042 - Network Servers and Services (3)

Implementing and Administering of Network Infrastructure and Directory Services Infrastructure. Prerequisite(s): NET 4040. An additional fee is associated with this course.

NET 4043 - Network Services and Infrastructure (3)

Advanced Implementing and Administering of Network Infrastructure and Directory Services Infrastructure. Prerequisite(s): NET 4042. An additional fee is associated with this course.

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(s): NET 2061 or CCNA certification. An additional fee is associated with this course.

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(s): NET 3058. An additional fee is associated with this course.

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(s): NET 2061. An additional fee is associated with this course.

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(s): NET 4062. An additional fee is associated with this course.

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(s): NET 3062 or NET 4100. An additional fee is associated with this course.

NET 4100 - Network Device Configuration (3: 2 lecture, 1 lab)

A comprehensive overview of Cisco Systems device configuration. This course is co-listed with NET 5100.

Prerequisite(s): Required for non-NET specialist. Not open to NET specialist. An additional fee is associated with this course.

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. This course is co-listed with NET 5500. Prerequisite(s): NET 4064 or NET 4100. An additional fee is associated with this course.

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. This course is co-listed with NET 5501. Prerequisite(s): NET 4100. An additional fee is associated with this course.

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. This course is co-listed with NET 5502. Prerequisite(s): NET 4501. An additional fee is associated with this course.

NUR 1700 - Introduction to Professional Nursing (1)

Introduces the learner to healthcare language and program outcomes utilized by Nursing. An additional fee is associated with this course.

NUR 2000 - e-Health and Cyber Wellness (2)

Provides an opportunity for students to apply e-health and cyber wellness skills to a self-selected wellness project. Open to nursing and non-nursing majors. An additional fee is associated with this course.

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 non-nursing majors. An additional fee is associated with this course.

NUR 2200 - Culture and Sustainability in Health GE (3)

Overview of health promotion and disease prevention from a multicultural and sustainability perspective (economic, social, cultural, and environmental) applied to individual, community, and global health. An additional fee is associated with this course.

UCM General Education Competency: This course fulfills Knowledge Competency #9 and Foundational Skills Competency #4 in the Engagement area of the UCM General Education Program.

NUR 2710 - Introduction to Nursing Applications Across the Lifespan (1)

Introduces the learner to the professional nursing applications of lifespan development. Provides foundations for interaction with people of various age groups. Prerequisite(s): NUR 1700 or may take concurrently with consent of school chair. An additional fee is associated with this course.

NUR 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(s): sophomore standing. An additional fee is associated with this course.

NUR 3200 - Pathophysiology (4)

An examination of common pathophysiological alterations in human structure and function across the lifespan. Successful completion required prior to admission to the Nursing Program. Prerequisite(s): BIOL 3401 and BIOL 3402. An additional fee is associated with this course.

NUR 3210 - Pharmacological Therapies (3)

Effects of chemicals used in the prevention, diagnosis and treatment of disease. Incorporation of patient teaching about pharmacological therapeutics. Prerequisite(s): CHEM 1104; Admission to nursing program for nursing majors. An additional fee is associated with this course.

NUR 3306 - 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. Prerequisite(s): BIOL 3401 and BIOL 3402 and Admission to nursing program. Corequisite(s): NUR 3307. An additional fee is associated with this course.

NUR 3307 - Assessment and Fundamentals Lab (2)

Application of nursing theory for health history taking, physical assessment, and basic nursing skills utilizing technology. Prerequisite(s): BIOL 3401 and BIOL 3402. Corequisite(s): NUR 3306. An additional fee is associated with this course.

NUR 3410 - Concepts of Nursing in Health Promotion & Wellness (2)

An introduction to functional health patterns and lifespan implications for health promotion and disease prevention from a nursing perspective. Prerequisite(s): Admission to the nursing program. An additional fee is associated with this course.

NUR 3515 - Fundamentals of Nursing (2)

An introduction to basic nursing care as a foundation to nursing practice. Prerequisite(s): Admission to the nursing program. Corequisite(s): NUR 3516. An additional fee is associated with this course.

NUR 3516 - Fundamentals of Nursing Practicum (3)

Application of basic nursing care as a foundation to nursing practice. Prerequisite(s): Admission to the nursing program. Corequisite(s): NUR 3515. An additional fee is associated with this course.

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. Prerequisite(s): NUR 3410. Corequisite(s): NUR 3611 and NUR 3612. An additional fee is associated with this course.

NUR 3611 - Concepts of Adult and Older Adult Nursing I Practicum (3)

Continued application of nursing process with emphasis on nursing science applicable to individuals experiencing chronic alterations in health. Must be taken for pass/fail credit only. Prerequisite(s): NUR 3410. Corequisite(s): NUR 3610 and NUR 3612. An additional fee is associated with this course.

NUR 3612 - Technical Nursing Skills Lab (2)

A performance based course focusing upon current clinical technology applications in nursing and theoretical rationales associated with these applications. Corequisite(s): NUR 3610 and NUR 3611. An additional fee is assessed for this course.

NUR 3710 - Mental Health Nursing (2)

An overview of nursing science specific to human behavior and alterations in human behavior. Using a holistic nursing approach, emphasis is placed on recognition of mental health and alterations in mental health. A focus will be placed on communication skills and therapeutic use of self in meeting the physiological, emotional, and spiritual needs of clients of all ages. Prerequisite(s): NUR 3515 and NUR 3516. An additional fee is associated with this course.

NUR 4000 - Special Projects in Nursing (1-3)

Investigation of contemporary problems and issues in nursing by selected individuals or groups. This course is co-listed with NUR 5500. *May be repeated for a maximum of 6 semester hours.* An additional fee is associated with this course.

NUR 4010 - RN-BS Health and Physical Assessment (3)

Builds on systematic assessment, documentation, and effective communication as practiced by RNs. Focuses on techniques of history taking and physical examination in a cross-cultural context throughout the life span. Prerequisite(s): Admission to the RN-BS option. An additional fee is associated with this course.

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(s): NUR 3516. An additional fee is associated with this course.

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(s): NUR 3516. An additional fee is associated with this course.

NUR 4015 - RN-BS Evidence Based Practice/Research (2)

An introduction to various types of research, the process of appraising research studies, and the application of research findings to improving the quality of nursing care. Prerequisite(s): Admission to the RN-BS option and NUR 4050.

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 non-nursing majors. This course is co-listed with NUR 5520. An additional fee is associated with this course.

NUR 4030 - Human Sexuality (2)

Current theory regarding the biological, cultural, and behavioral parameters of human sexuality. Open to nursing and non-nursing majors. This course is co-listed with NUR 5530. An additional fee is associated with this course.

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. This course is co-listed with NUR 5540. Prerequisite(s): meeting general education requirement for technology. An additional fee is associated with this course.

NUR 4050 - RN-BS Professional Nursing Dimensions and Perspectives (4)

Nursing concepts and theories for role transition and outcomes-based learning for the registered nurse. An additional fee is associated with this course.

NUR 4052 - RN-BS Concepts of Wellness (3)

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. Prerequisite(s): Admission to the RN-BS option, NUR 4050 or concurrently. An additional fee is associated with this course.

NUR 4060 - Physical and Health Needs of the Medically Fragile Child (1)

Designed to assist teachers and nurses in understanding and planning instruction/interventions for students with severe chronic medical and/or physical conditions. Prerequisite(s): EDSP 2100 or EDSP 5200. An additional fee is associated with this class.

This is a professional education course.

NUR 4111 - Socio-Economic Factors Impacting Health (3)

Examines selected socio-economic issues and their impact on health. An additional fee is associated with this course.

NUR 4200 - RN-BS Pathophysiology (3)

Explores etiology of disease and physiological adaptations that occur in humans with chronic and acute illnesses. Prerequisite(s): Admission to the RN-BS option. An additional fee is associated with this course.

NUR 4210 - Wellness for U.S. Veterans and Military Families (2)

Emphasis on unique issues that impact the health of U.S. veterans and military families. Open to nursing and non-nursing majors. An additional fee is associated with this course.

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 non-nursing majors. This course is co-listed with NUR 5405. An additional fee is associated with this course.

NUR 4406 - RN-BS Concepts of Community Health Nursing (3)

Integrates theories, concepts, and skills of community health nursing in the assessment and care of families, groups, and communities. Prerequisite(s): NUR 4050 and departmental consent. Corequisite(s): NUR 4407. An additional fee is associated with this course.

NUR 4407 - RN-BS Concepts of Community Health Nursing Practicum (2)

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. Must be taken for pass/fail credit only. Prerequisite(s): departmental consent. Corequisite(s): NUR 4406. An additional fee is associated with this course.

NUR 4410 - Concepts of Maternal-Child Nursing (3)

A continuation of the nursing process with emphasis on nursing science applicable to the childbearing and childrearing family. Prerequisite(s): NUR 3610 and NUR 3611. Corequisite(s): NUR 4411. An additional fee is associated with this course.

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. Must be taken for pass/fail credit only. Prerequisite(s): NUR 3611. Corequisite(s): NUR 4410. An additional fee is associated with this course.

NUR 4510 - Concepts of Adult and Older Adult Nursing II (3)

Overview of nursing science applicable to the acutely and critically ill adult. Prerequisite(s): NUR 3610, NUR 3611, NUR 3612. Corequisite(s): NUR 4511. An additional fee is associated with this course.

NUR 4511 - Concepts of Adult and Older Adult Nursing II Practicum (3)

Designed to provide the student the opportunity to apply skills and concepts of nursing practice in the delivery of nursing care to acutely and critically ill adults. Must be taken for pass/fail credit only. Prerequisite(s): NUR 3610 and NUR 3611. Corequisite(s): NUR 4510. An additional fee is associated with this course.

NUR 4512 - Advanced Pharmacology & Technical Nursing Skills Lab (2)

Designed to increase knowledge of and ability to apply advanced pharmacology and technology to nursing practice. Corequisite(s): NUR 4410, NUR 4411, NUR 4510 and NUR 4511. An additional fee is associated with this course.

NUR 4602 - Synthesis of Nursing Concepts (2)

Synthesis of program outcomes for transition into nursing practice as a graduate nurse. Prerequisite(s): NUR 4511, NUR 4512, NUR 4411. An additional fee is associated with this course.

NUR 4608 - RN-BS Concepts of Nursing Leadership in Management (4)

Integrates theories, concepts, and skills of dynamic, creative nursing leadership within health care settings. Prerequisite(s): NUR 4010, NUR 4052, NUR 4200 and NUR 4407 and departmental consent. Corequisite(s): NUR 4609. An additional fee is associated with this course.

NUR 4609 - RN-BS Concepts of Nursing Leadership in Management Practicum (1)

Application of leadership and management theories and skills in diverse settings. Must be taken for pass/fail credit only. Prerequisite(s): NUR 4010, NUR 4052, NUR 4200 and NUR 4407 and departmental consent. Corequisite(s): NUR 4608. An additional fee is associated with this course.

NUR 4610 - Population Health (3)

Concepts and theories of population-based nursing care for groups, communities, and populations. Corequisite(s): NUR 4611. An additional fee is associated with this course.

NUR 4611 - Population Health Practicum (3)

Concepts and theories from population-based nursing are applied in delivery of care for groups, communities, and populations. Corequisite(s): NUR 4610. An additional fee is associated with this course.

NUR 4710 - Leadership/Care Management (2)

Application of leadership and management within health care settings. Corequisite(s): NUR 4711. An additional fee is associated with this course.

NUR 4711 - Capstone (3)

Application of leadership, care management, and nursing concepts within health care settings. Corequisite(s): NUR 4710. An additional fee is associated with this course.

NUTR 4300 - Nutrition and Human Performance (3)

Nutrition as it applies to athletics, physical exercise, and health. This course is co-listed with NUTR 5300. Prerequisite(s): KIN 1800 and KIN 2850. Fall, Spring.

PHIL 1000 - Introduction to Philosophy GE (3)

An introductory survey of core philosophical questions and positions in metaphysics, ethics, epistemology, and the theories of the mind.

UCM General Education Competency: This course fulfills Knowledge Competency #6 and reinforces Foundational Skills Competency #4 in the Humanities area of the UCM General Education Program.

This course is equivalent to MOTR PHIL 100 Introduction to Philosophy in the Humanities & Fine Arts Knowledge Area.

PHIL 1400 - Deductive Logic (3)

An introduction to the elements of formal logic, emphasizing the principles, forms, and methods of valid reasoning.

PHIL 1410 - Critical Thinking GE (3)

An introduction to the basic principles and patterns of good reasoning, emphasizing informal argument analysis and practical critique.

UCM General Education Competency: This course fulfills Knowledge Competency #6 and reinforces Foundational Skills Competency #4 in the Humanities area of the UCM General Education Program.

PHIL 2300 - Ethics GE (3)

A systematic overview of various moral theories and their applications in a variety of specific contexts and cases.

UCM General Education Competency: This course fulfills Knowledge Competency #9 and Foundational

Skills Competency #4 in the Engagement area of the UCM General Education Program.

This course is equivalent to MOTR ETHC 100 Introduction to Ethics in the Humanities & Fine Arts Knowledge Area.

This is a sustainability course.

PHIL 3120 - History of Philosophy I: Ancient Thought (3)

Focuses on problems, positions, and arguments in ancient philosophy from the pre-Socratics to the Middle Ages, with special emphasis on Plato and Aristotle.

PHIL 3130 - History of Philosophy II: Enlightenment Thought (3)

Focuses on problems, positions, and arguments in epistemology, metaphysics, and social and political philosophy in the Age of Enlightenment.

PHIL 3300 - Applied and Professional Ethics (3)

This seminar explores the use of ethics to make decisions about a range of professional and social problems.

PHIL 3500 - Aesthetics (3)

Explores the philosophy of art from Plato to the present, addressing topics such as the nature of art, beauty, and aesthetic truth.

PHIL 3660 - Studies in Literature and Philosophy (3)

An interdisciplinary course devoted to examining the relationship between philosophy and literature. *May be repeated with different foci for a maximum of 6 semester hours.*

PHIL 3800 - Philosophy of Science and Technology (3)

This seminar addresses the nature of scientific theorizing, the relationship of the scientific method to rationality and progress, and technology's relation to science and society.

PHIL 4250 - Special Projects in Philosophy (3)

Senior seminar devoted to a core problem, theory, or figure(s) in philosophy. Prerequisite(s): senior standing or permission of the instructor.

PHIL 4600 - Special Topics in Philosophy (1-3)

Devoted to a particular topic of philosophical study. *May be repeated with different topics for a maximum of 6 semester hours.*

PHIL 4710 - Philosophy of Religion (3)

This seminar analyzes the concept of religion, arguments for the existence of god, the problem of evil, and the nature of religious language and communities.

PHOT 1203 - iPhoneography (3)

An introduction to photography's ongoing importance in the digital era as a communication medium and fine art through the use of smartphones and tablets. This course explores both a conceptual foundation and a practical application of the photographic medium, investigating the many ways photography impacts our culture and our daily lives. Basic digital camera operation, composition, image design and image evaluation will be explored. Photographic applications (apps) and social network sharing apps will be utilized. Consideration of aesthetic qualities, concept, context and meaning through creation of original artwork. Only a smartphone is needed for this course. An additional fee is associated with this course.

PHOT 1210 - Foundations of Professional Photography (3)

A foundation course in photographic aesthetics and technologies which provides fundamental knowledge and skills required for aspiring professionals. Professional level digital SLR camera functions and operation, essential digital image processing and output, and image design and composition are established. Students must furnish an approved digital SLR camera to enroll. Corequisite(s): PHOT 1211. An additional fee is associated with this course.

PHOT 1211 - Image Critique (1)

Explanations, demonstrations, and formal image critique of assignments associated with the Foundations of Professional Photography course. Images are analyzed and evaluated based on technical merit and on the formal elements and principles of design in concert with current theoretical and conceptual trends in photography. Corequisite(s): 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. An additional fee is associated with this course.

PHOT 1230 - Digital Imaging (3)

An introduction to current digital image editing methods, providing the photographer with the fundamental skills and knowledge needed to process their images. Instruction includes image correction, enhancement, and manipulation. Digital imaging is explored as a method for both improving imagery and as a sophisticated creative tool. An additional fee is associated with this course.

PHOT 2200 - Editorial Photography (3)

Photographic techniques relevant to creating aesthetically sensitive narrative images in a variety of media environments including illustration, documentary, sports, and event photography are presented and experienced. The aesthetic principles of visual design and communication are explored relative to a media context in order to develop effective narrative and a personal creative vision. Prerequisite(s): PHOT 2250. An additional fee is associated with this course.

PHOT 2210 - Studio Photography (3)

Studio experiences involving: lighting, visual perception, environment, historical studio genres, aesthetics, and photographic theory. Prerequisite(s): PHOT 2220 PHOT 2230. An additional fee is associated with this course.

PHOT 2215 - History of Photography (3)

Surveys the social and technological developments of photography's beginning to contemporary imaging styles, photographers, and systems. Course includes discussion, written assignments, and critiques concerning the comparative analysis of various periods, schools, and particular individuals and their contributions to the art and science of photography. Prerequisite(s): ENGL 1020 or ENGL 1080.

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. Prerequisite(s): PHOT 1216. An additional fee is associated with this course.

PHOT 2220 - Digital Workflow (3)

A comprehensive examination of the procedural, aesthetic, and technical aspects of digital photography from conceptualization, through final output, to image archiving. The intent of software exploration and use is to establish an efficient and repeatable process for image and data management. Prerequisite(s): PHOT 1210, PHOT 1211 and PHOT 1230. An additional fee is associated with this course.

PHOT 2230 - Color Imaging (3)

The course is designed to develop understanding of color photography from both a perceptual and design framework. Emphasis will be on how we see and recognize color as a visual tool for image creation and communication as well as what aesthetic decisions are exercised when making photographic images. Students will be introduced to a structured approach to working with and thinking about photography as well as a basic use of lighting and light modifying equipment. Prerequisite(s): PHOT 1210, PHOT 1211 and PHOT 1230. An additional fee is associated with this course.

PHOT 2240 - Nature Photography (3)

The natural environment, including photographing wildlife and landscape subjects, is explored in-depth. In-class lectures and demonstrations are augmented with extensive field work. Techniques and tools unique to the genre are covered. An appreciation of place and time and our relation to the natural world is developed, while methods of illustrating this essence are fostered by employing the elements and principles of design as tools for composition. Prerequisite(s): PHOT 1210. An additional fee is associated with this course.

PHOT 2250 - Portrait Photography (3)

A course providing instruction and experiences in portrait photography with an emphasis on professional techniques used to create effective images. Introduction to conceptual approaches that stress capturing essential aspects of personality/ identity in addition to likeness. The operation of specialized equipment utilized both in the studio and on location are covered, including professional photographic lighting systems. Prerequisite(s): PHOT 2220, PHOT 2230. An additional fee is associated with this course.

PHOT 2270 - Darkroom Photography (3)

Applied theories for controlling tone reproduction in the black and white film processes are explored. Emphasis is on the unique imaging properties of analog chemical photosensitive systems and how this is controlled through exposure and development. The creative and aesthetic potential of the medium is explored, fostering personal artistic growth and understanding. Prerequisite(s): PHOT 1210, PHOT 1211. An additional fee is associated with this course.

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. Prerequisite(s): PHOT 2216. An additional fee is associated with this course.

PHOT 3220 - Advanced Digital Imaging (3)

An advanced study of digital image editing modalities used to manipulate, modify, composite, and create images for photographic illustration. An emphasis is placed on expanding beyond personal boundaries to use technology to produce fresh and sophisticated visual communication. Prerequisite(s): PHOT 1210, PHOT 1211, PHOT 1230 and PHOT 2220. An additional fee is associated with this course.

PHOT 3255 - Location & Event Photography (3)

The course provides advanced instruction and practice in location and event photography using professional lighting techniques, product development and marketing techniques. Review of current trends in location photography aesthetics, techniques and approaches. Prerequisite(s): PHOT 1210, PHOT 1211, and PHOT 2250. An additional fee is associated with this course.

PHOT 3260 - Digital Media (3)

Develops knowledge and skills in planning, researching, formatting, sequencing, and using critical aesthetic judgment in order to produce an effective professional web and networked based visual presence. Prerequisite(s): PHOT 1210, PHOT 1211, PHOT 1230. An additional fee is associated with this course.

PHOT 3270 - Creative Photography (3)

The course consists of an analysis of a variety of processes and influences upon which the student can draw to develop their photographic sensibilities of creative self-expression. An emphasis is placed on the value of experimentation and creative synergies to develop conceptual approaches to photography through a project-based body of work. Prerequisite(s): PHOT 1210, PHOT 1211, PHOT 1230 and PHOT 2220. An additional fee is associated with this course.

PHOT 3280 - Advanced Studio (3)

Advanced investigation into historical and contemporary photographic theory within the studio environment: including visual analytical problem solving, visual semiotics, aesthetics, criticism, and applied theory in lighting and set design. Prerequisite(s): PHOT 1210, PHOT 1211 and PHOT 2210. An additional fee is associated with this course.

PHOT 3290 - Architectural Photography (3)

The imaging of manmade structures to convey the experience of being in and around a built environment is covered. Both exterior and interior subjects are experienced, with the elements and principles of design

informing photographic composition. Work ranging from documentary to expressive artistic styles are explored, along with requirements specific to the specialty, including perspective control and mixed lighting conditions. Prerequisite(s): PHOT 1210, PHOT 1211, PHOT 1230 and PHOT 2210.

PHOT 4214 - Independent Studies (1-3)

A mentored course for student initiated research and discovery on advanced technical, aesthetic, or conceptual issues in photography. The student identifies the topic, and writes a detailed proposal of the purpose and outcomes of the project. This course is designed to provide an investigation of content not available through normal course offerings. *May be repeated for a maximum of 6 semester hours.* Prerequisite(s): minimum GPA of 2.50, written contract/proposal with objectives and written school consent.

PHOT 4215 - Critique of Contemporary Photography (3)

Surveys the modern development of photography beginning with 1900 to contemporary imaging styles, photographers, and systems. Course includes on-line discussion, written assignments, and critique concerning the comparative analysis of various periods, schools of thought, and particular individuals. Prerequisite(s): PHOT 2215.

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. Prerequisite(s): PHOT 3216. An additional fee is associated with this course.

PHOT 4230 - Business Management for Photographers (3)

Explore the reality of owning and/or running a successful photographic business built on strong management principles, ethical standards, and other professional practices. Student assignments, reading materials, and group discussions will focus on producing individual business plans and supportive material for projected photography specialty areas. Prerequisite(s): PHOT 2216 and 90 semester hours completed. An additional fee is associated with this course.

PHOT 4240 - Investigative Photography (3)

Explores the myth that a visual image reveals meanings located in the subject represented. The idea of photographic truth is considered within concrete examples such as forensic, documentary, and scientific applications. Photography, as a recorder of light, simultaneously investigates reality and investigates the method of investigating that reality. This leads to novel seeing, producing a vision of things previously unseen, or abstract. Prerequisite(s): PHOT 1210, PHOT 1211 and PHOT 2220.

PHOT 4250 - Advanced Portrait Photography (3)

Further develops the student's skills in portrait photography involving both studio and location. An emphasis is placed on sophisticated lighting techniques and conceptual approaches used to communicate essential aspects of personality and identity. Prerequisite(s): PHOT 1210 and PHOT 1211 and PHOT 2250. An additional fee is associated with this course.

PHOT 4260 - Photography, Advertising and Society (3)

This is an exploration of the use, context, and meaning of photography within advertising, mass media, and society. In addition to creating images, students will investigate how images in advertising and mass media are used and consumed by society. Effects on image meaning created by varying conceptual approaches, as well as the manipulation of the elements and principles of design are considered. Prerequisite(s): PHOT 3280. An additional fee is associated with this course.

PHOT 4270 - Portfolio (3)

Culminating experience in photography providing for the creation and production of a professional image portfolio to reflect personal career goals. Prerequisite(s): PHOT 3216 and senior standing or consent of the instructor. An additional fee is associated with this course.

PE 1100 - Orientation and History of Physical Education (2)

Orients PETE students to the history and profession of physical education, and the physical education program at UCM. Fall, Spring.

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 1220 - Beginning Bowling (1)

Fundamentals and participation in bowling. (Recommended for the handicapped.) An additional fee is associated with this course.

PE 1241 - Beginning Tennis (1)

PE 1271 - Volleyball (1)

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. Fall, Spring.

PE 2000 - Special Activities in Physical Education (1-3)

Group study of lifetime physical activities in special areas of interest. *May be repeated for a maximum of 5 semester hours.*

PE 2100 - Foundations and Philosophy of Teaching Physical Education (3)

Introduces students to the philosophies behind the instructional strategies utilized in Physical Education. Course is a pre-cursor to Physical Education K-12 teaching Program requirements. Fall, Spring.

PE 2200 - Weight Training (1)

Students will gain practical instruction in weightlifting techniques while assessing the movements required to complete a lift correctly. In addition, students will learn coaching tips and cues to safely execute lifting movements.

PE 2230 - Beginning Fencing (1)

PE 2410 - Movement Skills and Activities for Primary Grades (2)

Knowledge, understanding, and applications in teaching motor skills.

This is a professional education course.

PE 2455 - Growth and Motor Development (3)

The sequential and developmental phase of children and the acquisition and control of movement skills in relationship to motor development. Fall, Spring.

PE 2472 - Communicating Ideas on Sport (3)

Provides avenues to develop communication skills while exploring issues in sport.

PE 3200 - Intermediate Bowling (1)

More advanced fundamentals and participation in bowling.

PE 3210 - Outdoor Skills I (3)

Introduction to experiential education through outdoor skills. Fall.

PE 3220 - Advanced Beginning/Intermediate Swimming (1)

PE 3270 - Intermediate Golf (1)

Advanced skills instruction in putting, approach shots, wood shots and playing experience. An additional fee is associated with this course.

PE 3310 - Analysis and Teaching of Physical Training (3)

Basic skills to participate in and instruct in the area of aerobic conditioning and weight training. Fall, Spring.

PE 3320 - Analysis and Teaching of Elementary Skills (3)

Pre-service teacher training in elementary skill development, critical elements, cues, skill analysis and instructional design. Prerequisite(s): PE 2100 and PE 2455. Fall, Spring.

PE 3330 - Analysis and Teaching of Secondary Skills (3)

Knowledge, skill development, teaching cues, skills analysis and teaching skills in the secondary setting. Prerequisite(s): PE 2100 and PE 2455. Fall, Spring.

PE 3340 - Analysis and Teaching of Lifetime Activities (3)

Knowledge, skill development, teaching cues, skill analysis and teaching skills involved with physical education. Prerequisite(s): PE 2100. Fall, Spring.

PE 3350 - Assessment of Elementary and Secondary Skills (2)

Prerequisite(s): PE 3310, PE 3320, PE 3330 and PE 3340 or concurrently.

PE 3420 - Elementary School Physical Education Activities (2)

Theory and practice in stunts and tumbling, self-testing activities, rhythms, skills, and games.

This is a professional education course.

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 4210 - Outdoor Skills II (3)

Application of skills and knowledge to successfully participate and teach outdoor environmental experiential learning techniques and skills. Prerequisite(s): PE 3210.

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. Fall, Spring.

This is a professional education course.

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 4450 - 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(s): PE 3310, PE 3320, PE 3330, PE 3340 and admission to Teacher Education Program. This course should be taken no earlier than one semester prior to student teaching. Corequisite(s): PE 4460. Fall.

PE 4460 - 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(s): PE 3310, PE 3320, PE 3330, PE 3340 and admission to Teacher Education Program. This course should be taken no earlier than one semester prior to student teaching. Corequisite(s): PE 4450. Fall.

PE 4500 - Football Officiating (1)

Lectures, readings, class discussions, and field experience in the officiating of intramural, school, and college football games.

PE 4510 - Basketball Officiating (1)

Lectures, readings, class discussions, and field experience in the officiating of intramural, school, and college basketball games.

PE 4550 - Introduction to Coaching (3)

Students are introduced to coaching as a profession. This general overview of coaching addresses standards, responsibilities, philosophy, and issues in coaching.

PE 4551 - Fundamental Techniques in Coaching (3)

Students are introduced to coaching as a profession. This general overview of coaching addresses standards, responsibilities, philosophy, and issues in coaching.

PE 4560 - Coaching and Sport Analysis (2)

Students perform an in-depth study of the theory and coaching of a particular sport. Prerequisite(s): PE 4550 and PE 4551.

PE 4561 - Coaching Practicum (1)

The student completes a 100-hour (minimum) practical experience observing and coaching. Prerequisite(s): PE 4550 and PE 4551.

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. Fall, Spring.

PE 4770 - Curriculum and Instructional Planning (2)

PETE students will focus on the instructional strategies needed to implement the curriculum into unit and lesson plans to meet the needs of the individual student. Prerequisite(s): admission to Teacher Education Program. Corequisite(s): PE 4970, PE 4974 and PE 4975.

This is a professional education course.

PE 4830 - Psychological Aspects of Physical Education (2)

An application of psychological principles to physical education. Fall, Spring.

PE 4845 - Psychological and Social Aspects of Physical Education (3)

The PETE student will develop an understanding for the application of psychological principles and social concepts in physical education and sport in American society.

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. Prerequisite(s): admission to Teacher Education Program; should be taken concurrently with PE 4890 during the Professional Semester. Fall, Spring.

This is a professional education course.

PE 4890 - Methods of Teaching and Assessment in K-12 Physical Education (3)

PETE students will develop instructional practices to align best teaching practices with the use of assessment data to facilitate learning in all students including those with special needs. Prerequisite(s): admission to Teacher Education Program; double majors must take a methods course for each major; should be taken during the professional semester concurrent with the student teaching experience. Fall, Spring.

This is a professional education course.

PE 4970 - Teaching and Management in PreK-12 Physical Education (3)

An analysis of the teaching and learning process emphasizing behavior, time, space, equipment and people management in dynamic environments. Prerequisite(s): admission to Teacher Education Program. This course should be taken no earlier than one semester prior to student teaching. Corequisite(s): PE 4975. Fall.

This is a professional education course.

PE 4971 - Methods of Teaching Reading and Writing in Physical Education (1)

PETE students will learn the techniques used to integrate reading and writing literacy into the dynamic environment of physical education to facilitate the learning of all students. Prerequisite(s): admission to Teacher Education Program; EDFL 4210 or concurrently.

This is a professional education course.

PE 4974 - Assessment and Data Based Decision Making in Physical Education (2)

PETE students will develop instructional practices to align assessment data to best teaching practices to facilitate learning in all students. Prerequisite(s): admission to Teacher Education Program. This course is part of a pre-professional block. It should be taken no earlier than the Fall semester prior to student teaching. Corequisite(s): PE 4770, PE 4970, and PE 4975.

PE 4975 - Practicum in PreK-12 Physical Education (1)

PETE students will perform Fifty hours total co-teaching with a public school physical education teacher. Prerequisite(s): admission to Teacher Education Program. This course should be taken no earlier than one semester prior to student teaching. Corequisite(s): PE 4970.

This is a professional education course.

PHYS 1005 - Survival Skills for College Physics (2)

Preparatory course to enhance success in College Physics by exploring concepts of physics and further developing algebraic and logic skills for solving applied physics problems. Sometimes offered online.

PHYS 1101 - College Physics I GE (4: 4 lecture, 0 lab)

Properties of matter, mechanics, energy, heat, and waves. Laboratory required. Prerequisite(s): MATH 1111 or consent of the instructor.

UCM General Education Competency: This course fulfills Knowledge Competency #7 and reinforces Foundational Skills Competency #3 in the Science with a Laboratory area of the UCM General Education Program.

This course is equivalent to MOTR PHYS 100L Physics I with Lab in the Natural Sciences Knowledge Area.

PHYS 1102 - College Physics II (4: 4 lecture, 0 lab)

Electricity, magnetism, light, and atomic and nuclear physics. Laboratory required. Prerequisite(s): PHYS 1101.

PHYS 1103 - Introduction to the Sciences: Physics GE (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 GEPHYS 1104.

UCM General Education Competency: This course fulfills Knowledge Competency #7 and reinforces Foundational Skills Competency #3 in the science non-laboratory area of the UCM General Education

Program.

This course is equivalent to MOTR PHYS 001 Essentials in Physics in the Natural Sciences Knowledge Area.

PHYS 1104 - Introduction to the Sciences: Physics GE (4: 4 lecture, 0 lab)

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.

UCM General Education Competency: This course fulfills Knowledge Competency #7 and reinforces Foundational Skills Competency #3 in the Science with a Laboratory area of the UCM General Education Program.

This course is equivalent to MOTR PHYS 001L Essentials in Physics with Lab in the Natural Sciences Knowledge Area.

PHYS 1123 - Elementary Physics Laboratory I (1)

Laboratory experiments in mechanics, heat, and waves. Does not fulfill requirements for any physics degree. Prerequisite(s): 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(s): 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(s): PHYS 2121.

PHYS 2121 - University Physics I GE (5: 5 lecture, 0 lab)

Kinematics, dynamics, statics, rotational motion, elasticity, periodic motion, fluids, and heat. Laboratory required. Prerequisite(s): MATH 1151 with a grade of C or better or consent of instructor.

UCM General Education Competency: This course fulfills Knowledge Competency #7 and reinforces Foundational Skills Competency #3 in the Science with a Laboratory area of the UCM General Education Program.

This course is equivalent to MOTR PHYS 200L Advanced Physics I with Lab in the Natural Sciences Knowledge Area.

PHYS 2122 - University Physics II (5: 5 lecture, 0 lab)

Wave motion, sound, electricity and magnetism, electromagnetic waves, and optics. Laboratory required. Prerequisite(s): 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. Prerequisite(s): MATH 1151 with a grade of C or better or consent of instructor.

This course is equivalent to MOTR PHYS 200L Advanced Physics I with Lab in the Natural Sciences Knowledge Area.

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. Prerequisite(s): 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(s): 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(s): 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(s): consent of school.

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(s): 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. Prerequisite(s): PHYS 2121 and MATH 1152.

PHYS 3212 - 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. Prerequisite(s): PHYS 3211.

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(s): 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; Schrodinger equation and its applications. Prerequisite(s): PHYS 2122 or concurrently. Corequisite(s): 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. Prerequisite(s): PHYS 3511 and MATH 2153. Corequisite(s): PHYS 3080.

PHYS 3611 - Optics (3)

Wave optics, including the principles of superposition, interference, diffraction, polarization, and dispersion. Introduction to quantum optics. Prerequisite(s): PHYS 2122 and MATH 2153. Corequisite(s): PHYS 3080.

PHYS 4312 - Electricity and Magnetism (3)

Electric and magnetic fields; scalar and vector potentials; conductors and dielectrics; Coulomb's law, Ampere's law, and Gauss's laws; Laplace's equation; Maxwell's equations. This course is co-listed with PHYS 5312. Prerequisite(s): 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. This course is co-listed with PHYS 5411. Prerequisite(s): PHYS 2122 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. This course is co-listed with PHYS 5512. Prerequisite(s): PHYS 3511 and MATH 2153.

PHYS 4513 - Solid State Physics (3)

Crystal structure and diffraction; thermal, electrical, and magnetic properties; band theory; Brillouin zones. This course is co-listed with PHYS 5513. Prerequisite(s): PHYS 3512. Corequisite(s): 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. This course is co-listed with PHYS 5711. Prerequisite(s): 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. This course is co-listed with PHYS 5911. *May be repeated for a maximum of 6 semester hours.*

POLS 1244 - Workshop in Politic Science (1-3)

Provides students with experiential learning opportunities using simulations.

POLS 1500 - Introduction to Politics GE (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.

UCM General Education Competency: This course fulfills Knowledge Competency #8 and reinforces Foundational Skills Competency #4 in the Social & Behavioral Sciences area of the UCM General Education Program.

POLS 1510 - American Government GE (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.

UCM General Education Competency: This course fulfills Knowledge Competency #8 and reinforces Foundational Skills Competency #4 in the Social & Behavioral Sciences area of the UCM General Education Program.

This course is equivalent to MOTR POSC 101 American Government in the Social & Behavioral Sciences Knowledge Area.

POLS 2511 - State Government GE (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.

UCM General Education Competency: This course fulfills Knowledge Competency #8 and reinforces Foundational Skills Competency #4 in the Social & Behavioral Sciences area of the UCM General Education Program.

POLS 2520 - Comparative Government and Politics (3)

Introduction to major forms of government throughout the world.

POLS 2530 - World Politics GE (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.

UCM General Education Competency: This course fulfills Knowledge Competency #8 and reinforces Foundational Skills Competency #4 in the Social & Behavioral Sciences area of the UCM General Education Program.

This course is equivalent to MOTR POSC 201 International Relations in the Social & Behavioral Sciences Knowledge Area.

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 2580 - Public Law and the Judicial Process (3)

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 3521 - Political Economy of Africa and Latin America (3)

A comparison of African and Latin American countries with emphasis given to politics, economics, democratization, as well as policies such as education and poverty alleviation.

POLS 3522 - Modern Asia GE (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.

UCM General Education Competency: This course fulfills Knowledge Competency #8 and reinforces Foundational Skills Competency #4 in the Social & Behavioral Sciences area of the UCM General Education Program.

POLS 3524 - Middle East Politics (3)

The influence of culture on the politics, political systems and issues of the Middle East.

POLS 3525 - Politics in Europe (3)

An examination of the theory, history, and institutional structure of several European countries and the European Union.

POLS 3526 - Oil, Water, and Security (3)

Explores global resource politics, focusing specifically on the security threats surrounding oil, as well as water and food scarcity.

POLS 3527 - Security in the 21st Century (3)

Explores the most urgent security challenges of the 21st century, including civil wars, ethnic violence, cyberwarfare, and asymmetric warfare, among others.

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 3531 - Five Wars of Globalization (3)

Focuses on factors of globalization that have created opportunities for individuals, corporations, and governments to utilize technology, communication, and transportation to engage in illegal activities for financial gain.

POLS 3535 - Model United Nations GE (3)

Students will gain hands-on experience of the organizational structure, policies and procedures of the United Nations through course work and conference attendance.

UCM General Education Competency: This course fulfills Knowledge Competency #9 and Foundational Skills Competency #4 in the Engagement area of the UCM General Education Program.

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 3552 - Political Parties and Interest Groups (3)

The theory, principles, structures, and functions of interest groups and political parties in the American political system.

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)

Will acquaint students with a wide variety of research methods used to analyze political phenomena, concentrating on those approaches that are both quantitative and non-quantitative, including case studies, interviewing, field research, and a lab component utilizing packaged computer programs for statistical analysis.

POLS 3581 - Trial Advocacy GE (3)

Provides training in trial advocacy techniques and instruction on the practical workings of the court system.

UCM General Education Competency: This course fulfills Knowledge Competency #9 and Foundational Skills Competency #4 in the Engagement area of the UCM General Education Program.

POLS 3598 - International Human Rights (3)

An exploration of the politics and history of international human rights, as well as of the role that international institutions and global civil society organizations play in promoting human rights around the world.

This is a sustainability course.

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. This course is co-listed with POLS 5511.

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. This course is co-listed with POLS 5520.

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. This course is co-listed with POLS 5530.

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. This course is co-listed with POLS 5531.

POLS 4532 - International Relations of Asia (3)

Study of contemporary regional politics of 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 Asia. This course is co-listed with POLS 5532.

POLS 4533 - The Israeli-Palestinian Conflict (3)

Explores the politics of the Israeli-Palestinian Conflict. Topics covered include the role of domestic politics, political violence, international actors, and the peace process.

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. This course is co-listed with POLS 5552.

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. This course is co-listed with POLS 5555.

POLS 4570 - Public Administration (3)

A broad and basic study of public administration in the United States. This course is co-listed with POLS 5570

POLS 4571 - Municipal Administration (3)

Principles of municipal administration as they operate in the United States under the various forms of municipal governments. This course is co-listed with POLS 5571.

POLS 4572 - Federalism and Intergovernmental Relations (3)

This course examines federalism and the coordination and collaboration between federal, state, and local governments. Special attention is given to the challenges of policy management and intergovernmental relations as well as various actors in state and local government such as quasi-public entities, non-profits, and private organizations. This course is co-listed with POLS 5572.

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. This course is co-listed with POLS 5580.

POLS 4581 - Civil Rights and Liberties (3)

Except for the First Amendment, this course examines individual rights and liberties found within and outside of the Constitution. This course is co-listed with POLS 5581.

POLS 4583 - First Amendment (3)

Examines First Amendment controversies, including flag burning, obscenity, libel, hate speech, free press vs. fair trial, and freedom of and from religion. This course is co-listed with POLS 5583.

POLS 4590 - Special Projects in Political Science (1-6)

Study, interpretation, and discussion of special topics and problems in political science. This course is co-listed with POLS 5990. *May be repeated for a maximum of 6 semester hours.* Prerequisite(s): consent of the instructor.

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. This course is co-listed with POLS 5591. *May be repeated for a maximum of 6 semester hours.* Prerequisite(s): consent of school.

POLS 4592 - Problems in National, State or Local Government (1-3)

Special problems in government, selected by student and instructor. This course is co-listed with POLS 5592. *May be repeated for a maximum of 6 semester hours.* Prerequisite(s): consent of the instructor.

POLS 4601 - Senior Seminar in Political Science (3)

This capstone course allows students to assimilate and present their knowledge of the field of political science in a final research project/paper. Prerequisite(s): POLS 3560.

PSY 1000 - Orientation to Psychology (1)

Introduction to the discipline of Psychology, focusing on strategies to promote success in the major. Students learn about expectations for the major and career options. Prerequisite(s): Psychology major. Fall, Spring, Summer. Sometimes offered online.

PSY 1100 - General Psychology GE (3)

A general introduction to the science of behavior, surveying the broad field of psychology and the methods of investigation. Fall, Spring, Summer. Sometimes offered online.

UCM General Education Competency: This course fulfills Knowledge Competency #8 and reinforces Foundational Skills Competency #4 in the Social & Behavioral Sciences area of the UCM General Education Program.

This course is equivalent to MOTR PSYC 100 General Psychology in the Social & Behavioral Sciences Knowledge Area.

PSY 1320 - Psychology of Personal Adjustment GE (3)

A general overview of major theories, concepts, and principles in psychology that can be applied to issues of personal and social adjustment. Fall, Spring, Summer. Sometimes offered online.

UCM General Education Competency: This course fulfills Knowledge Competency #8 and reinforces Foundational Skills Competency #4 in the Social & Behavioral Sciences area of the UCM General Education Program.

PSY 2110 - Research Design and Analysis I (4: 4 lecture, 0 lab)

Rationale and methods for designing, conducting, and analyzing research. PSY 2120 must be taken the following semester. Includes scheduled lab. Prerequisite(s): PSY 1100; PSY 1000 with a C or better or concurrently. Fall.

PSY 2120 - Research Design and Analysis II (4: 4 lecture, 0 lab)

Rationale and methods for designing, conducting, and analyzing research. Continuation of PSY 2110. Includes scheduled lab. Prerequisite(s): PSY 2110. Spring.

PSY 2130 - Learning (3)

A basic course for students planning to major in psychology. Emphasis on fundamental concepts and theoretical approaches to learning. Prerequisite(s): PSY 1100. Fall, Spring. Sometimes offered online.

PSY 2220 - Child and Adolescent Psychological Development (3)

Interaction of biological and environmental factors in the development of the child from conception through adolescence. Prerequisite(s): PSY 1100 or EDFL 2240. Fall, Spring, Summer. Taught only as an online course.

This is a professional education course.

PSY 3010 - Introduction to Applied Behavior Analysis (4)

An introduction to use of behavior analysis and therapy procedures across the lifespan. Prerequisite(s): PSY 2130 with a B or better. Fall.

PSY 3030 - Introduction to Statistics for Psychology (3)

An introduction to statistical analysis of data in the social sciences. Students will learn how to identify data types, represent data graphically, and apply basic descriptive and inferential statistics.

PSY 3100 - Research Methods (3)

Introduces the basic skills of literature search, experimental design, research methodology, and research reporting. Prerequisite(s): PSY 1000 with a C or better or concurrently; PSY 1100; PSY 3030 . Sometimes offered online.

PSY 3120 - Brain and Behavior (3)

Introduces the student to the fundamental structures, systems, theories, methods, and practical principles involving the relationship between the nervous system and human behavior. At completion of the course, the student should understand the basic structure and function of the major components of the nervous system, sensory system structures and functions; and those specific nervous system components associated with a variety of behaviors and processes. Prerequisite(s): PSY 1100; junior standing and either admission to the BA Psychology Program or school consent. Spring. Sometimes offered online.

PSY 3130 - Physiological Psychology (4: 4 lecture, 0 lab)

A survey of the relationship between physiological mechanisms and behavior. Course includes scheduled laboratory. Prerequisite(s): PSY 1100, PSY 3100 or PSY 2120 and junior standing and either admission to the (BA or BS) Psychology program or school consent. An additional fee is associated with this course. Fall, Spring.

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(s): PSY 1100 or EDFL 2240. Fall, Spring, Summer. Sometimes offered online.

This course is equivalent to MOTR PSYC 200 Life Span Human Development in the Social & Behavioral Sciences Knowledge Area.

This is a professional education course.

PSY 3340 - Social Psychology (3)

Analysis of individual and group behavior in sociocultural settings. Written and hands-on observation assignments facilitate connections between theories of social behavior. Professional development activities. Prerequisite(s): PSY 1100 and junior standing. Fall, Spring, Summer. Sometimes offered online.

This is a sustainability course.

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.* Prerequisite(s): PSY 1100 and junior standing. Fall, Spring, Summer.

PSY 4050 - Positive Psychology (3)

The rigorous study of what is right and positive about people and institutions. The course presents an introduction to the core assumptions and research findings associated with human strengths and positive emotions. The course also explores interventions and applications informed by this perspective. This course is co-listed with PSY 5750. Prerequisite(s): PSY 1100. Spring. Sometimes offered online.

PSY 4110 - History of Psychology (3)

Capstone course for the major where multiple assessments are completed including an exit exam. Includes historical analysis of the field and connections with students' professional development. Prerequisite(s): PSY 2120 or (PSY 3030 and PSY 3100); PSY 2130; PSY 3120 or PSY 3130; PSY 3220; PSY 3340; PSY 4440; PSY 4310 or concurrently and either admission to the (BA or BS) Psychology program or school consent. Fall, Spring.

PSY 4130 - Sensation and Perception (3)

Relationship between sensory occurrences and the experiences of the person. Prerequisite(s): PSY 1100 and junior standing. Fall, Summer. Sometimes offered online.

PSY 4140 - Psychology of Human Sexuality (3)

An overview of theories, research and contemporary issues in the scientific study of human sexual behavior and experience. Topics may include: research methods, physiology, arousal and response, gender identity, gender differences, orientation, sexual variations, and attraction and love. Summer. Sometimes offered online.

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. Prerequisite(s): PSY 1100 and junior standing. Fall.

PSY 4180 - Seminar in Psychology (1-3)

Selected issues not covered in theory-practicum courses. This course is co-listed with PSY 5180. *May be repeated for a maximum of 6 semester hours.* Prerequisite(s): PSY 1100 and junior standing. Fall, Spring, Summer. Sometimes offered online.

PSY 4200 - Applied Behavior Analysis With Children and Youth (4)

Use of behavior analysis and therapy with normally developing and intellectually and developmentally disabled children and youth. A grade of B or better required to obtain the Certificate in ABA. Prerequisite(s): PSY 2130, PSY 3010 each with a B or better. Summer. Sometimes offered online.

PSY 4230 - Psychology of Adolescence GE (3)

Developmental factors and problems common to the period from puberty to adulthood with emphasis upon conditions leading to optimal development. Prerequisite(s): PSY 1100 or EDFL 2240; and junior standing. Fall, Spring, Summer. Sometimes offered online.

UCM General Education Competency: This course fulfills Knowledge Competency #8 and reinforces Foundational Skills Competency #4 in the Social & Behavioral Sciences area of the UCM General Education Program.

This is a professional education course.

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. This course is co-listed with PSY 5240. Prerequisite(s): PSY 1100 and junior standing. Fall. Taught only as an online course.

PSY 4310 - Theories of Personality (3)

Major theories of personality, past and present. This course is co-listed with PSY 5710. Prerequisite(s): PSY 1100 and senior standing. Fall, Spring, Summer. Sometimes offered online.

PSY 4320 - Psychology of Women (3)

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. This course is co-listed with PSY 5720. Prerequisite(s): PSY 1100 and junior standing. Fall. Sometimes offered online.

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. This course is co-listed with PSY 5330. Fall, Spring, Summer. Taught only as an online course.

PSY 4440 - Abnormal Psychology (3)

A descriptive course dealing with the etiology, diagnosis, and treatment of mental disorders of functional and organic origin. Prerequisite(s): PSY 1100 and junior standing. Fall, Spring, Summer. Sometimes offered online.

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. This course is co-listed with PSY 5700. Prerequisite(s): PSY 2110 and junior standing. Fall.

PSY 4540 - Introduction to Counseling Psychology (3)

Introduces theories and practice concepts of counseling psychology while exploring professional development issues relative to students pursuing this field. This course is co-listed with PSY 5540. Prerequisite(s): PSY 1100. Summer. Sometimes offered as Hybrid.

PSY 4600 - Industrial/Organizational Psychology (3)

Psychological principles and methods applied to industrial and organizational settings, with emphasis on research design, workplace procedures, and statistical techniques. Professional development activities. This course is co-listed with PSY 5600. Prerequisite(s): PSY 1100 and junior standing. Fall.

PSY 4720 - Applied Behavior Analysis and Intellectual Disabilities (3)

Application of applied behavior analysis and function-based assessment with individuals with intellectual disabilities. Prerequisite(s): PSY 3010 with a grade of C or better or Instructor consent.

PSY 4730 - Cognitive and Behavioral Intervention (4)

Description of contemporary cognitive and behavioral treatment procedures for children and adults. Prerequisite(s): PSY 3010 with a grade of C or better or Instructor consent. Spring.

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. Prerequisite(s): PSY 1100 or CJ 1000 or SOC 3890; and junior standing. Spring.

PSY 4750 - Field Experience in Applied Behavior Analysis (1-3)

Application of behavioral assessment methods, including functional analysis of behavior, and implementation of behavior analytic interventions in a field setting. Must be taken for pass/fail credit only. Prerequisite(s): PSY 2130, PSY 3010, PSY 4200 and PSY 4730. This course may be taken concurrently

with PSY 4730 or PSY 4200, with instructor's permission. A grade of P (Pass) for this course must be obtained to receive the Certificate in Applied Behavior Analysis.

PR 1600 - Orientation to PR (3)

Orients students new to the field of public relations with relevant industry terms and potential careers paths. Establishes its relationships as complementary to other business disciplines. Establishes a firm foundation for student and post-graduation success. Facilitates academic and career exploration.

PR 1601 - Experiencing Strategic Communication (1)

The exciting, easy-to-access Strategic Communication Experience is designed to let students explore their own professional aptitude, meet industry professionals face-to-face, explore the growing field of strategic communication, and have fun learning through friendly team competition.

PR 2620 - Principles of Public Relations (3)

Addresses public relations history, principles, strategies and tactics as an entry into its study. Provides a survey of public relations contexts for employment and influence. Fall, Spring, Summer.

PR 3605 - Survey of Public Relations Research and Theory (3)

Survey of research methods and trends informing the public relations industry. Survey of select public relations theories as they impact research predictions and results.

PR 3610 - Writing and Editing (3)

Introduces students to correct Associated Press style writing from a public relations perspective. Equips students to represent and facilitate public relations interests through knowledge of journalism, advocacy, technology and clear presentation of the written word. Prerequisite(s): PR 1600 and PR 2620 each with a grade of C or better. Fall, Spring, Summer.

PR 3620 - Strategic Planning and Research for PR (3)

Students apply theoretical knowledge from entry-level course work to real world public relations applications. Helps students develop preliminary strategic planning skills and ability to apply strategic thought through real world application. Prerequisite(s): PR 1600 and PR 2620 with a grade of C or better. Fall, Spring.

PR 3625 - Design and Layout (3)

Designed to equip students with the preliminary theory, design, software and layout knowledge and skills needed to produce print, digital, and social media mediums for public relations purposes. Fall, Spring, Summer.

PR 3640 - Integrated Strategic Communication (3)

Explores the value of integrating, for maximized strategic communication and promotional purposes, traditionally divided areas such as direct and Internet marketing, advertising, sales promotion, public relations and personal selling. A unique emphasis is placed on public relations. Fall, Spring.

PR 4600 - Special Topics in Public Relations (3)

Topics of contemporary interest in public relations, variable content. This course is co-listed with PR 5601. Students who have earned credit for PR 4600 may not also take PR 5601 for graduate credit. *May be repeated for a maximum of 9 semester hours.* Fall, Spring.

PR 4605 - Public Relations Internship (1-3)

A practical experience for the public relations student in securing employment and applying course-derived knowledge and skill. *May be repeated for a maximum of 6 semester hours.* Prerequisite(s): PR 3610 and PR 3620 each with a grade of C or better and consent of instructor. Fall, Spring, Summer.

PR 4610 - Public Relations Management and Industry Practices (3)

Acquaints students, through discussion and application, with the basic concepts of "doing public relations business" as a means of readying them to enter the world of organizational operation in the marketplace of ideas and competition. This course is co-listed with PR 5610. Students who have earned credit for PR 4610 may not also take PR 5610 for graduate credit. Prerequisite(s): PR 2620. Fall, Spring.

PR 4625 - Innovative Public Relations (1-9)

Students gain real-world public relations agency experience in planning, executing, managing and evaluating campaigns; writing and designing under deadline, strategic planning, and working effectively with clients in a fast-paced environment. *May be repeated for a maximum of 9 semester hours.* Prerequisite(s): PR 3610 and PR 3620, competitive selection and consent of instructor. Fall, Spring, Summer.

PR 4627 - Special Projects in Public Relations (1-3)

A student studies an area of public relations, under the direct supervision of a public relations faculty member, which is not covered in a regularly offered course. This course is co-listed with PR 5627. *May be repeated for a maximum of 9 semester hours.* Prerequisite(s): PR 2620 and consent of instructor. Fall, Spring, Summer.

PR 4630 - Electronic & Social Media for Public Relations (3)

Students explore social media technologies and their strategic use in current and future public relations practice. Social media phenomena are changing the practice of public relations daily from theoretical and practical viewpoints. Students are exposed to methods for keeping up with the change. This course is co-listed with PR 5630. Students who have earned credit for PR 4630 may not also take PR 5630 for graduate credit. Fall, Spring.

PR 4640 - Advanced Public Relations Design (3)

Design theory and expression at an advanced level for the purposes of representing and giving voice to strategic messaging. Prerequisite(s): PR 3610 and PR 3625.

PR 4650 - Public Relations & Promotional Law (3)

Introduces students to legal and ethical issues in public relations and related promotional areas. Promotes an understanding of and appreciation for the U.S. legal system and ethics as they relate to public expression

for the purpose of professional communication services. This course is co-listed with PR 5650. Students who have earned credit for PR 4650 may not also take PR 5650 for graduate credit. Spring.

PR 4655 - Global Sports Public Relations (3)

Students learn the value of public relations in sports. Introduction to sport entertainment value and business operations. Exposure to public relations initiatives, events, effective media relations, and strategic communication plans relevant to sports. This course is co-listed with PR 5655. Students who have earned credit for PR 4655 may not also take PR 5655 for graduate credit. Summer.

PR 4670 - Strategic Crisis Communication (3)

Students are introduced to the process and experiences of thinking and planning strategically for public relations purposes when under crisis pressure. They study past and current crisis, CCPs, and public relations outcomes. This course is co-listed with PR 5670. Students who have earned credit for PR 4670 may not also take PR 5670 for graduate credit. Spring, Summer.

PR 4675 - Media Training (3)

Includes introduction to on-camera experience as spokesperson following a crisis, managing an interview and interaction with the media, developing key messages and anticipating reporters' questions with a view to public relations objectives. This course is co-listed with PR 5675. Students who have earned credit for PR 4675 may not also take PR 5675 for graduate credit. Prerequisite(s): PR 2620. Fall.

PR 4680 - Advanced PR Writing (3)

Overview of the public relations messaging process including written, spoken and digital strategy using all available media forms as public relations tools. Prerequisite(s): PR 3610 and PR 3620. Fall, Spring.

PR 4685 - Strategic Public Relations Case Analysis (3)

Public relations problems of individual business and civic organizations; analysis of actual and proposed solutions. The class includes expanded discussions of public relations theories and their applications. This course is co-listed with PR 4685. Prerequisite(s): PR 3610 and PR 3620; ENGL 1020 and ENGL 1030 or CTE 3060 or ENGL 1080 with a grade of C or better; and Admission to the PR program. Fall, Spring.

PR 4690 - Public Relations Campaigns (3)

Capstone course and overview of the public relations campaign process with actual "hands on" application. Students plan, organize, write and pitch an actual public relations campaign. When the context allows, implementation follows. The PR Program capstone assessment project also takes place in this course. This course is co-listed with PR 5690. Students who have earned credit for PR 4690 may not also take PR 5690 for graduate credit. Prerequisite(s): PR 3605, PR 4680, PR 4685 and Admission to the PR program. Fall, Spring.

REL 1510 - Introduction to World Religions GE (3)

Introduction to the beliefs and practices of Judaism, Christianity, Islam, Hinduism, and Native American spirituality.

UCM General Education Competency: This course fulfills Knowledge Competency #8 and reinforces

Foundational Skills Competency #4 in the Social & Behavioral Sciences area of the UCM General Education Program.

This course is equivalent to MOTR WREL 100 World Religion in the Humanities & Fine Arts Knowledge Area.

REL 2010 - Origins of Judaism: Patriarchs, Prophets, and Kings (3)

An examination of the origins of ancient Israelite religion and Judaism, focusing on the texts and history of the ancient Near East and Israel. Coverage begins in prehistory and runs through the second century of the Common Era.

REL 2015 - Global Judaisms (3)

An examination of the ways in which Jewish communities are now and have historically been importantly 'local' in terms of ethnicity and culture, reflecting their particular histories and concerns, and are also part of a broader, global Jewish community of interest and belief.

REL 2020 - Jesus and the New Testament (3)

An examination of the origins of Christianity, focusing on early Christian texts and the historical and literary contexts that shaped those texts.

REL 2025 - Christians in the Modern World (3)

Examines how Christians participate in, resist, and drive social and political change, through a changing selection of locations and cultures in addition to the US.

REL 2040 - Hinduism (3)

Investigation of Hindu history, beliefs, practices, art and music, as well as its influence on India and western intellectual life today.

REL 2050 - Buddhism (3)

History and survey of Buddhism.

REL 2060 - Native American Religions (3)

A selected survey of Native American religious traditions in the United States.

REL 2070 - Religions of Africa (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 2210 - Religions in America (3)

Historical development of American religious pluralism.

REL 2220 - New Religions (3)

An international survey of "cults" and new religions during the past 200 years.

REL 2310 - Religious Issues Today GE (3)

Examines how religion and religious conflict contribute to the difficult issues facing today's world. Issues will vary, but will always include multiple global religious traditions.

UCM General Education Competency: This course fulfills Knowledge Competency #9 and Foundational Skills Competency #4 in the Engagement area of the UCM General Education Program.

REL 3010 - Religion and Poverty (3)

An examination of the ways in which various religions address issues of poverty and the poor. Course focus will vary, but will always include consideration of at least one Abrahamic and one non-Abrahamic religion.

REL 3030 - Religion, Magic, and the Supernatural (3)

An examination of the ways in which various religions separate 'magic' from 'religion,' and how they interact with the supernatural. Course focus will vary, but will always include consideration of at least one Abrahamic and one non-Abrahamic religion.

REL 3055 - Islam Now & Then (3)

Surveys the development, history, theology, and political aspects of Islam from its beginnings to the present.

REL 3900 - Special Projects in Religion (1-3)

Individual or group study of special areas of interest in Religious Studies not addressed in existing courses. Includes travel seminars. *May be repeated.*

REL 4020 - Religion, Gender, and Sexuality (3)

An examination of the ways in which various religions address issues of gender and sexuality. Course focus will vary, but will always include consideration of at least one Abrahamic and one non-Abrahamic religion.

REL 4040 - Religion and Medicine (3)

An examination of the ways in which various religions address issues of illness and injury, including questions of divine punishment, medical treatment, and faith healing. Course focus will vary, but will always include consideration of at least one Abrahamic and one non-Abrahamic religion. This course is co-listed with REL 5040.

REL 4900 - Special Topics in Religion (3)

Study of special topics in religions. This course is co-listed with REL 5900. *May be repeated.*

RMI 3803 - 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(s): FIN 3850 or a declared major in Actuarial Science and Mathematics with completion of ACST 4510. An additional fee is associated with this course.

RMI 3835 - Internship in Insurance (1-6)

Opportunity for students to gain theoretical knowledge and practical experience within a particular field of specialization. *May be repeated with consent of school chair and internship director.* Prerequisite(s): Admission to the BSBA program, 60 semester hours and overall GPA of 2.50 or above, or consent of internship director. An additional fee is associated with this course. Fall, Spring, Summer.

RMI 4802 - Life and Health Insurance (3)

The Nature and importance of life and health insurance risks. Topics include the concept of human life value, types and uses of life and health insurance, and different contracts in treating these risks. This course is co-listed with RMI 5802. Prerequisite(s): RMI 3803. An additional fee is associated with this course.

RMI 4803 - Property and Casualty Insurance (3)

Insurance principles and practices of risk management applied to property and casualty liability insurance. This course is co-listed with RMI 5803. Prerequisite(s): RMI 3803. An additional fee is associated with this course.

RMI 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. This course is co-listed with RMI 5804. Prerequisite(s): RMI 3803. An additional fee is associated with this course.

RMI 4850 - Corporate Risk Management (3)

Focuses on risk management from a corporate finance perspective. It introduces strategies that firms employ to enhance corporate value through their risk management functions. The tools and concepts are relevant for both financial and non-financial institutions. This course is co-listed with RMI 5850. Prerequisite(s): RMI 4802, RMI 4803, and RMI 4804. An additional fee is associated with this course.

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. An additional fee is associated with this course.

SAFE 1800 - Principles of Emergency Services (3)

Provides an overview to fire protection and emergency services; career opportunities in fire protection and related fields; culture and history of emergency services; fire loss analysis; organization and function of public and private fire protection services; fire departments as part of local government; laws and regulations affecting the fire service; fire service nomenclature; specific fire protection functions; basic fire chemistry and physics; introduction to fire protection systems; introduction to fire strategy and tactics; life safety initiatives. An additional fee is associated with this course.

SAFE 2010 - Practical Safety and Security GE (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.

UCM General Education Competency: This course fulfills Knowledge Competency #9 and Foundational Skills Competency #4 in the Engagement area of the UCM General Education Program.

SAFE 2800 - Fire Prevention (3)

Provides fundamental knowledge relating to the field of fire prevention. Topics include the history and philosophy of fire prevention, organization and operation of a fire prevention bureau, use and application of codes and standards, plans review, fire inspections, fire and life safety education, and fire investigation. Prerequisite(s): SAFE 1800. An additional fee is associated with this course.

SAFE 2900 - Applied Sciences for Professional Studies (3)

Utilizes lectures and interactive case studies to develop the learner's understanding and mastery of physical science and math and their practical application as problem-solving tools to address unique challenges associated with a variety of occupational fields such as construction, engineering, safety and health, criminal justice, and aviation. An additional fee is associated with this course.

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. An additional fee is associated with this course.

SAFE 3005 - Introduction to Environmental, Health, and Safety (3)

Introduction to the fundamentals of environmental, health, and safety management in the occupational environment. Prerequisite(s): Not available to those with credit in SAFE 3000.

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. An additional fee is associated with this course.

SAFE 3070 - Safety Leadership (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. An additional fee is associated with this course.

SAFE 3120 - Industrial Hygiene (3)

The recognition, evaluation and control of workplace health hazards. Prerequisite(s): (SAFE 3000 or SAFE 3005) and MATH 1111 and (CHEM 1103 or CHEM 1104), each with a grade of C or better. An additional fee is associated with this course.

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(s): (SAFE 1000 with a grade of C or better; and SAFE 2900; and SAFE 3000 with a grade of C or better) or SAFE 3005 with a grade of C or better. An additional fee is associated with this course.

SAFE 3800 - Building Construction for Fire Protection (3)

Provides the components of building construction related to firefighter and life safety. The elements of construction and design of structures are shown to be key factors when inspecting buildings, preplanning fire operations, and operating at emergencies. An additional fee is associated with this course.

SAFE 4000 - Ergonomics in Safety and Health (3)

An introduction into the role and application of ergonomics in a comprehensive safety program. This course is co-listed with SAFE 5001. An additional fee is associated with this course.

SAFE 4005 - Environmental, Health, and Safety Risk Assessment (3)

This course provides the fundamentals of risk assessment, with practical applications, for students and employed safety, health, and environmental professionals who recognize that they are expected to have risk assessment capabilities. This course is dual listed with SAFE 5505.

SAFE 4010 - Accident Investigation (3)

Fundamentals and techniques of investigating accidents. Prerequisite(s): SAFE 3120 and SAFE 3430, each with a grade of C or better; and SAFE 4025. An additional fee is associated with this course.

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. An additional fee is associated with this course.

SAFE 4025 - Workers' Compensation and Legal Aspects of Safety (3)

An investigation of the legal problems confronting the safety and health profession and an overview of the principles and statutes that govern workers' compensation as they apply to the industrial setting. Prerequisite(s): SAFE 3000 with a grade of C or better. An additional fee is associated with this course.

SAFE 4035 - Occupational Risk Management (3)

Examination of theory and practices of safety, health and risk management. Includes planning programs, contemporary safety and health risk management practices, sustainability, and loss control. Prerequisite(s): SAFE 4940. An additional fee is associated with this course.

SAFE 4055 - Safety Capstone Experience (3)

Integration of safety information using conceptual and technical data to resolve safety and health issues. The case study approach will be emphasized. Prerequisite(s): SAFE 4010 or consent of program coordinator. An additional fee is associated with this course.

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. This course is co-listed with SAFE 5140. Prerequisite(s): SAFE 3120 and CTE 3060, each with a grade of C or better. An additional fee is associated with this course.

This is a sustainability course.

SAFE 4150 - Noise Measurements (2)

Physics of sound, measurement and control of noise. Laboratory required. This course is co-listed with SAFE 5150. Laboratory required. Prerequisite(s): SAFE 4140 with a grade of C or better; PHYS 1101 or PHYS 1103 or PHYS 1104 or PHYS 2121 with a grade of C or better. An additional fee is associated with this course.

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. This course is co-listed with SAFE 5160. Prerequisite(s): SAFE 4140 with a grade of C or better. An additional fee is associated with this course.

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(s): CHEM 1103 or CHEM 1104 with a grade of C or better. An additional fee is associated with this course.

SAFE 4300 - 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. This course is co-listed with SAFE 5300. An additional fee is associated with this course. Fall.

SAFE 4425 - Safety and Health Legislation and Standards (3)

A comprehensive study of legislation and standards designed to protect the worker. This course is co-listed with SAFE 5425. An additional fee is associated with this course.

SAFE 4435 - Environmental Compliance (3)

Comprehensive study of federal and state environmental legislation and standards to protect the health and safety of citizens. This course is co-listed with SAFE 5435. An additional fee is associated with this course.

This is a sustainability course.

SAFE 4440 - Environmental Air Quality and Pollution Prevention (3)

Comprehensive study of environmental air quality and pollution prevention techniques. This course is co-listed with SAFE 5440. An additional fee is associated with this course.

This is a sustainability course.

SAFE 4445 - Water Quality and Waste Water Management (3)

Comprehensive study of water quality, waste water management and pollution prevention techniques. This course is co-listed with SAFE 5445. An additional fee is associated with this course.

This is a sustainability course.

SAFE 4450 - Environmental Remediation (3)

Comprehensive study of environmental remediation, remedial techniques and best management practices. This course is co-listed with SAFE 5455. An additional fee is associated with this course.

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. This course is co-listed with SAFE 5510. Prerequisite(s): SAFE 3430 with a grade of C or better. An additional fee is associated with this course.

SAFE 4515 - High Hazard Industries (3)

Evaluation of industries that have higher rates of injuries and/or fatalities on the job. Typical high hazard industries include construction, mining, and oil and gas. Identification of methods to identify, reduce or eliminate hazards in these industries. This course is co-listed with SAFE 5515. An additional fee is associated with this course.

SAFE 4520 - Safety and Risk Analysis (3)

Identification of safety risks and analytical treatment of those risks in various work settings. An additional fee is associated with this course.

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(s): SAFE 4940. An additional fee is associated with this course.

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. Prerequisite(s): MATH 1111. An additional fee is associated with this course. Fall.

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. An additional fee is associated with this course.

SAFE 4820 - Fire Protection Systems (3)

Provides information relating to the features of design and operation of fire alarm systems, water-based fire suppression systems, special hazard fire suppression systems, water supply for fire protection, and portable fire extinguishers. An additional fee is associated with this course.

SAFE 4830 - Fire Investigation (3)

Fire investigation techniques with emphasis on fire causation, equipment, evidence, and reporting. Prerequisite(s): SAFE 1800. An additional fee is associated with this course.

SAFE 4850 - Industrial Fire Protection (3)

The recognition, control or elimination of fire hazards in industrial settings. Prerequisite(s): SAFE 3120 with a grade of C or better. An additional fee is associated with this course.

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.* An additional fee is associated with this course.

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.* An additional fee is associated with this course.

SAFE 4940 - Statistical Analysis for Risk Management (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. This course is co-listed with SAFE 5930. Prerequisite(s): SAFE 2900 or SAFE 3005. An additional fee is associated with this course.

SAFE 4950 - Food Safety (3)

Comprehensive study of food safety, identification of food hazards, risk analysis and systems for food safety and risk prevention. This course is co-listed with SAFE 5050. An additional fee is associated with this course.

SAFE 4980 - Practicum in Safety Sciences (1-6)

Individual practical work projects in the field of Environmental, Safety and Health. *May be repeated for a maximum of 6 semester hours.* Prerequisite(s): SAFE 4140 with a grade of C or better. An additional fee is associated with this course.

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(s): departmental approval and must have completed one-half of major/minor courses in area of study. An additional fee is associated with this course.

SOT 3022 - Internship in Technology (1-6)

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 6 semester hours.* Prerequisite(s): 20 semester hours of program offerings, minimum undergraduate GPA of 2.00 and permission of school chair. An additional fee is associated with this course.

SOT 4000 - Special Projects in Technology (1-3)

Investigation of contemporary problems and issues in technology by selected individuals or groups. *May be repeated for a maximum of 6 semester hours.* An additional fee is associated with this course.

SOT 4210 - Innovations Management for CADD (3)

Applied innovation management principles are analyzed and synthesized by Design & Drafting Technology majors. Design & Drafting Technology-focused topics include: industry dynamics, technological innovation, innovation strategies, collaboration, product innovation management, and product development team management and innovation deployment strategies with case studies for each focused topic. Prerequisite(s): 27 hours of CADD classes. An additional fee is associated with this course.

SOT 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. This course is co-listed with SOT 5570. An additional fee is associated with this course.

STCH 1003 - Great Concepts in Science GE (4: 3 lecture, 1 lab)

Through an integrated approach, key concepts in the fields of Chemistry, Biology, Physics, and Geoscience are explored to deepen scientific literacy and provide students with the critical knowledge to make informed personal and professional decisions regarding health, safety, resources and the environment.

UCM General Education Competency: This course fulfills Knowledge Competency #7 and reinforces Foundational Skills Competency #3 in the Science with a Laboratory area of the UCM General Education Program.

STCH 3020 - Science and Engineering Practices GE (3)

A practical introduction to science and engineering practices as well as how scientists do science. Students perform and present their own science investigations and study the relationship between science, technology, engineering, and society.

UCM General Education Competency: This course fulfills Knowledge Competency #7 and reinforces Foundational Skills Competency #5 in the METS (Mathematics, Engineering, Technology, and Science) area of the UCM General Education Program.

STCH 4010 - Exploring Firsthand Science Lessons (1-2)

This seminar course aims to provide a learning environment in which students learn *science* and *science teaching* from firsthand science lessons. Students learn from invited speakers as well science articles written by science teachers. Expanding this learning opportunity, in the two credit hour version of the course, students will be working with in-service teachers in K-12 public school setting for 30 hours. Note: Students who are aiming for secondary science certification must register for two hours. This course is co-listed with STCH 5010.

STCH 4020 - Internship in Science Teaching and Learning (1)

50-hour field experiences that provide opportunities for students to develop assessment plan, design inquiry-oriented science lessons, and co-teach the prepared science lessons with in-service teachers. This course is co-listed with STCH 5020. Prerequisite(s): Students must have a background check on file and Admission to Teacher Education. Corequisite(s): STCH 4050.

STCH 4050 - Science Teaching Methods (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. This course is co-listed with STCH 5050. Prerequisite(s): 16 hours of science content courses including at least one lab course Corequisite(s): STCH 4020

This is a professional education course.

STCH 4080 - Science Learning and Literacy (4)

Assists teacher candidates during professional semester by emphasizing DESE Standards of teaching proficiency related to student learning and literacy. Helps teacher candidates collect and analyze data related to student science learning and literacy. Corequisite(s): FLDX 4595.

This is a professional education course.

GERO 4814 - Issues in Social Gerontology (1-3)

Study, interpretation, and discussion of special topics and problems in social gerontology. *May be repeated for a maximum of 6 semester hours.* Fall, Spring, Summer.

GERO 4854 - Death in the Midst of Life (3)

Perspectives on death and dying in cultural, social and psychosocial contexts. Topics include orientations toward death, how we die, hospice, death work, and death rites. Students who have earned credit in GERO 4854 may not also take GERO 5854 for graduate credit. Summer.

SOSC 4050 - The Social Studies (3)

The "structures" of the disciplines and practice in redesigning university course work for high school lessons.

SOSC 4071 - Social Studies Methods (3)

Prepares education majors to teach the social studies. Students will create units, lesson plans and assessments to prepare for the teaching field. Only offered Summer. Only offered Online.

This is a professional education course.

SOSC 4074 - Methods of Teaching Social Studies (3)

Prepares students in instructional strategies, student activities, and assessments to plan and implement in the social studies classroom, especially during observation and student teaching. Methods is taken the semester prior to the professional semester (student teaching). Double majors must take a methods course for each major.

Prerequisite(s):

1. Admission to the Teacher Education program,
2. Completion of SOSC 4972, SOSC 4973, SOSC 4974 and FLDX 3000,
3. Declared undergraduate degree major of either Social Studies Education or Middle School Education.

This is a professional education course.

SOSC 4972 - Literacy in Social Studies (2)

Prepares the social studies pre-service teacher with the skills and knowledge necessary to understand reading and writing in the social studies content area. Emphasis on proper implementation of instructional interventions for differing levels of literacy needs in the social studies classroom.

SOSC 4973 - Secondary Classroom Management in Social Studies (2)

Prepares the social studies pre-service teacher with the skills and knowledge necessary to understand, create and implement a classroom management plan in a social studies classroom.

SOSC 4974 - Social Studies Assessment (1)

Prepares the social studies pre-service teacher with the skills and knowledge necessary to understand, prepare, and execute assessments in the social studies classroom.

SOWK 2600 - Introduction to Social Welfare and Social Work GE (3)

Overview of individual and societal values and perspectives which impact social policy, programs and services that promote well-being for individuals, families, groups and communities.

UCM General Education Competency: This course fulfills Knowledge Competency #8 and reinforces Foundational Skills Competency #4 in the Social & Behavioral Sciences area of the UCM General Education Program.

SOWK 3601 - Social Work Practice and the Agency Experience (3)

Presents a generalist framework for practice with individuals, families, groups, organizations and communities. Students observe application of this practice framework in social work practice setting. Prerequisite(s): SOWK 2600 with a grade of C or better.

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(s): SOC 2805 with a grade of C or better.

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(s): SOWK 3601 with a grade of C or better.

SOWK 3612 - Human Behavior Across the Lifespan (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. Prerequisite(s): SOWK 3601 with a grade of C or better or concurrently; BIOL 2010 or concurrently.

SOWK 4610 - Special Topics in Social Work (1-3)

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(s): SOWK 3601 with a grade of C or better or concurrently or consent of instructor.

SOWK 4612 - Human Behavior Social Systems (3)

Utilizes a social systems approach to examine the processes of human behavior within groups, organizations, communities and societies/cultures. Prerequisite(s): SOWK 3601 with a grade of C or better or concurrently.

SOWK 4620 - Social Services and Policy with Older Adults (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. This course is co-listed with SOWK 5620. Prerequisite(s): SOWK 3601 with a grade of C or better or concurrently or consent of instructor. Fall.

SOWK 4630 - Social Work Practice: Intervention with Families and Groups (3)

Integrates knowledge, theory, values and interviewing skills for assessment and intervention planning with individuals, families and groups. Prerequisite(s): Admission to the B.S.W. program; SOWK 3610 with a grade of C or better.

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(s): SOWK 3601 with a grade of C or better; SOWK 4612 with a grade of C or better.

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. Prerequisite(s): Admission to the B.S.W. program; SOWK 2600 with a grade of C or better; consent of instructor.

SOWK 4660 - Field Practicum (9)

Educationally directed 480-hour field experience in a social service agency under qualified agency supervision. Prerequisite(s): Full admission to the B.S.W. program; all other required major courses must be completed; consent of Coordinator of Field Education. Corequisite(s): SOWK 4661.

SOWK 4661 - Field Practicum Seminar (3)

This capstone course integrates knowledge for beginning level professional development including ethical decision making, with group processing of varied practicum experiences. Prerequisite(s): Full admission to the B.S.W. program; all other required major courses must be completed; consent of the Coordinator of Field Education. Corequisite(s): SOWK 4660.

SOC 1800 - General Sociology GE (3)

Explores the relationships of individuals, groups, and society in the context of changing social institutions. Addresses basic concepts and subfields in sociology. Fall, Spring, Summer. Sometimes offered online.

UCM General Education Competency: This course fulfills Knowledge Competency #8 and reinforces Foundational Skills Competency #3 in the Social & Behavioral Sciences area of the UCM General Education Program.

This course is equivalent to MOTR SOCI 101 General Sociology in the Social & Behavioral Sciences Knowledge Area.

SOC 1830 - Social Problems GE (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.

UCM General Education Competency: This course fulfills Knowledge Competency #8 and reinforces Foundational Skills Competency #1 in the Social & Behavioral Sciences area of the UCM General Education Program.

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. Fall, Spring.

SOC 2810 - Culture and Society (3)

Examines culture including art, popular culture, folk/ethnic culture, consumer culture, and post-modern culture. Emphasis on meaning and power.

SOC 2825 - Families, Homes & Communities (3)

Examination of theory and research on families with a focus on the life course.

SOC 2845 - Social Inequality (3)

A theoretical and methodological examination of the relationships between social class, inequality, and mobility.

SOC 2850 - Institutions and Social Action (3)

Introduces theoretical approaches to modern social institutions and offers a critical examination of strategies of social action intended to intervene within institutional contexts.

SOC 3815 - Cities & Urban Life (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.

SOC 3820 - Popular Culture (3)

Exploration of the major theories of popular culture including production, consumption, taste, resistance, and audience.

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. Fall, Spring.

SOC 3830 - Protests, Riots & Movements (3)

An application of social-psychological principles to various forms of collective phenomena, including cults, civil disturbances, and social movements.

SOC 3840 - 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 3845 - Social Deviance (3)

Exploration of the major theories of social norms and social deviance across a variety of social contexts including legal and non-legal, underprivileged and privileged.

SOC 3850 - Food and Society (3)

Sociology of food is the study of food as it relates to the history, progression, and future development of society. Food is much more than a biological need for human beings. What we eat, the way we eat, and whether or not we prepare or provide food for others is every bit as much symbolic as it is rooted in biological survival. We create identity, claim ethnic and national affiliation and affirm our maleness and femaleness with the foods we purchase, prepare, select or order from a menu. This course will help students

to investigate the way the foods people eat-or don't eat-hold meaning for people within multiple cultural contexts.

SOC 3854 - Generations: Aging in Society (3)

Exposes students to the basics of aging, theories of aging, and applied issues. Political and economic forces that impact the aging process and older adults in the United States are addressed.

SOC 3870 - Society & Self (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.

SOC 3885 - Globalization and the Future (3)

Explores the impact of the globalization phenomenon upon the future development of the world's economic, political and sociocultural aspects.

This is a sustainability course.

SOC 3890 - Criminology (3)

The nature and characteristics of crime and criminals; the historical perspectives of criminology; theoretical analysis of criminal behavior.

SOC 3895 - Outsiders and Outcasts (3)

An exploration of the ideas of marginality and the cultural processes of inclusion/exclusion including exiles, immigrants, refugees, ethnic minorities, and the homeless.

SOC 4055 - Social Policy & Justice (3)

Explores the major debates in contemporary sociology on issues of social policy analysis. A critical analysis of assumptions and belief system behind policy initiatives, the functions of power in policy development and the consequences and implications of policy practices. The course will examine the diverse controversies as it relates to issues such as social security, welfare, education, health care, women's reproductive health. The course will explore the policy process from emergence to institutionalization and the passage across space and time. The importance of cross-national, comparative and institutional analysis will be emphasized.

SOC 4805 - Environment and Society (3)

Examination of the social debates around the environment including wilderness, natural resource use, agriculture, recreation, environmentalism, and green production and consumption.

This is a sustainability course.

SOC 4815 - Special Projects in Sociology (1-6)

Study, interpretation, and discussion of special topics and problems in sociology. This course is co-listed with SOC 5915. *May be repeated for a maximum of 6 semester hours.*

SOC 4850 - Money, Work & Social Life (3)

Critical inquiry into the workings of modern society and its cultures and subcultures, ideologies, institutions, elites, classes, and the processes of power relations. This course is co-listed with SOC 5950.

SOC 4855 - 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. This course is co-listed with SOC 5955.

SOC 4860 - Sociological Thought (3)

Assessment of current sociological thought as it is reflected by outstanding scholars in the field. Prerequisite(s): Junior standing.

SOC 4870 - Gender, Sexuality, & Inequality (3)

This seminar-based class examines gender and aging, sexuality and aging and the intersections between the two from both historical and contemporary perspectives. This course is co-listed with SOC 5970.

SOC 4872 - Organizations, Bureaucracies in Modern Society (3)

The purpose of the course is to give primary attention to sociological approaches to organizations. The course will examine the development of sociological thought about the origins and modern analysis of organizations. An attempt would be made to recognize and take into account the contribution of other social sciences and management theory in our analysis of organizations. An important question we will attempt to answer is; how does the organization of the market economy and society decisively manifest definite relationships and processes? We will explore organizations in relation to their environments, to other organizations and particularly to the states. Finally, a comparative, global focus on organizational issues will be discussed. This course is co-listed with SOC 5972.

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. This course is co-listed with SOC 5975.

SOC 4881 - Gender and Society (3)

Explores the impact of gender stratification and gender roles on the attitudes and behavior of women and men in everyday life. An additional focus of the course is on the positions of women and men in social institutions and theoretical perspectives on gender. Gender and sexuality are also discussed. This course is co-listed with SOC 5981.

SOC 4885 - Religion, Faith & Disbelief (3)

The structure and function of religion in society; social sources of religions; religion and the individual. This course is co-listed with SOC 5985.

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(s): SOC 2805.

SOC 4894 - Sociology of Aging (3)

Seminar examining the process of aging in relation to demographic, economic, psychological, and sociological implications with an emphasis on sociological principles and perspectives. This course is co-listed with SOC 5994. Prerequisite(s): junior standing, senior standing. Summer, Fall.

SOC 4895 - Senior Seminar in Public Sociology (3)

For senior Sociology majors to explore the use and application of Sociology in public life and as a career. Cumulative senior project required. Prerequisite(s): Sociology major and senior standing, or consent of program coordinator.

SE 3900 - Software Requirements Engineering (3)

Aims at equipping students with requirements engineering techniques for software-intensive systems. Students will learn a systematic approach to discover, analyze, model, write, and validate requirements from both theoretical and practical perspectives. Prerequisite(s): CS 2300. An additional fee is associated with this course.

SE 3910 - Software Engineering (3)

An introduction to software development process (Agile, Lean, Scrum and Kanban), with emphasis on software design, team management, and application development. Students will gain experience in developing and managing software projects. Ethical issues regarding software development will be discussed. Prerequisite(s): CS 2300. An additional fee is associated with this course.

SE 4920 - Senior Project (3)

Semester-long senior capstone project in which teams design, plan, implement, test, and deploy a software development project. Selected topics in software development, group dynamics, project management, and ethics and professional responsibility. Includes a formal presentation to the Computer Science faculty. Prerequisite(s): CS 4600 and SE 3910. An additional fee is associated with this course.

SE 4930 - Software Testing and Quality Assurance (3)

Concepts and techniques for testing software and assuring its quality. Students learn the testing fundamentals, the theory behind criteria-based test design and to apply that theory in practice. Topics include coverage criteria for testing (graph coverage, logic coverage, input space partitioning, syntax-based testing); software development process (SCRUM); test team organization; maturity models; software quality factors; and testing tools. This course is co-listed with SE 5930 Prerequisite(s): CS 2300. An additional fee is associated with this course.

SE 4940 - Software Design and Architecture (3)

In depth study of concepts and principles of software design and software architecture, as well as practical approaches for employing design patterns and architectures in real systems. Students will gain experiences with examples in design pattern application and case studies in software architecture. This course is co-listed with SE 5940. Prerequisite(s): SE 3910. An additional fee is associated with this course.

SE 4950 - Secure Software Engineering (3)

In depth study of secure development lifecycle. The course reevaluates each phase of the development lifecycle from a security perspective and uses best practices from different secure SDL methodologies. Students will learn how to practice risk analysis, static/dynamic analysis, penetration testing, and secure code review in a dialectic process. This course is co-listed with SE 5950. Prerequisite(s): SE 3910 . An additional fee is associated with this course.

SE 4960 - Software Project Management (3)

An introduction to software project management, with emphasis on project time management, cost management, quality management and human resource management. Students learn how to plan and track project components, stakeholders and resources.

Prerequisite(s): SE 3910. An additional fee is associated with this course.

SPAN 1601 - Elementary Spanish I GE (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 school chair.

UCM General Education Competency: This course fulfills Knowledge Competency #6 and reinforces Foundational Skills Competency #2 in the Languages area of the UCM General Education Program.

This course is equivalent to MOTR SPAN 101 Spanish I in the Humanities & Fine Arts Knowledge Area.

SPAN 1602 - Elementary Spanish II GE (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 school chair. Prerequisite(s): SPAN 1601.

UCM General Education Competency: This course fulfills Knowledge Competency #6 and reinforces Foundational Skills Competency #2 in the Languages area of the UCM General Education Program.

This course is equivalent to MOTR SPAN 102 Spanish II in the Humanities & Fine Arts Knowledge Area.

SPAN 1611 - Elementary Spanish I for Healthcare Professionals GE (3)

Fundamental principles of Spanish pronunciation, and oral practice; the building of basic vocabulary of words and expressions appropriate to health care; studies in structure, and reading selections. Not open to native speakers or students who have had three years of high school Spanish without permission of the school chair. Taught only as an online course.

UCM General Education Competency: This course fulfills Knowledge Competency #6 and reinforces Foundational Skills Competency #2 in the Languages area of the UCM General Education Program.

SPAN 1612 - Elementary Spanish II for Healthcare Professionals GE (3)

A continuation of SPAN 1611. Includes oral practice; the building of basic vocabulary words and expressions appropriate for health care; studies in structure, and reading selections. Not open to native speakers or students who have had four years of high school Spanish without permission of the school chair. Prerequisite(s): SPAN 1611. Taught only as an online course.

UCM General Education Competency: This course fulfills Knowledge Competency #6 and reinforces Foundational Skills Competency #2 in the Languages area of the UCM General Education Program.

SPAN 2601 - Intermediate Spanish I GE (3)

Development of the ability to use the language by oral-aural laboratory drills and readings. Prerequisite(s): SPAN 1602.

UCM General Education Competency: This course fulfills Knowledge Competency #6 and reinforces Foundational Skills Competency #2 in the Languages area of the UCM General Education Program.

SPAN 2602 - Intermediate Spanish II GE (3)

Continuing development of the ability to use the language on the intermediate level, with more advanced grammar, laboratory work and readings. Prerequisite(s): SPAN 2601.

UCM General Education Competency: This course fulfills Knowledge Competency #6 and reinforces Foundational Skills Competency #2 in the Languages area of the UCM General Education Program.

SPAN 2603 - Spanish Conversation I (3)

Conversational Spanish using culture-based materials emphasizing the four skills: speaking, listening, reading, and writing. Prerequisite(s): SPAN 2602.

SPAN 2611 - Intermediate Spanish I for Healthcare Professionals GE (3)

A continuation of SPAN 1612. Development of oral and writing skills in the target language. Includes oral practice with native speakers; the building of vocabulary appropriate for health care; studies in structure, and reading selections. Prerequisite(s): SPAN 1612. Taught only as an online course.

UCM General Education Competency: This course fulfills Knowledge Competency #6 and reinforces Foundational Skills Competency #2 in the Languages area of the UCM General Education Program.

SPAN 2612 - Intermediate Spanish II for Healthcare Professionals GE (3)

A continuation of SPAN 2611. Development of oral and writing skills in the target language. Includes oral practice with native speakers; the building of vocabulary appropriate for health care; studies in structure, and reading selections. Prerequisite(s): SPAN 2611. Taught only as an online course.

UCM General Education Competency: This course fulfills Knowledge Competency #6 and reinforces Foundational Skills Competency #2 in the Languages area of the UCM General Education Program.

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 15 semester hours.* Prerequisite(s): 6 semester hours of Spanish and consent of the school chair.

SPAN 3603 - Spanish Conversation II (3)

Oral practice in everyday Spanish, discussion, idiomatic usage, listening comprehension, speaking. Prerequisite(s): SPAN 2603.

SPAN 3623 - Spanish Composition (3)

Review of grammar, oral-aural training, and special study of the subjunctive mood. Prerequisite(s): SPAN 2602.

SPAN 3661 - Spanish Civilization and Literature (3)

The social, cultural, literary, and political history of Spain. Prerequisite(s): SPAN 2602.

SPAN 3662 - Spanish American Civilization and Literature (3)

The social, cultural, literary, and political history of Spanish America. Prerequisite(s): SPAN 2602.

SPAN 4603 - Advanced Readings and Oral Expression (3)

Emphasis on advanced readings and oral-aural practice in Spanish. Prerequisite(s): SPAN 3603.

SPAN 4623 - Advanced Spanish Composition (3)

Oral and written composition; review of more difficult grammatical constructions and idioms. Prerequisite(s): SPAN 3623.

SPAN 4650 - Introduction to Spanish for Business (3)

Enhances linguistic and cultural knowledge of Spanish for business and will be conducted primarily in Spanish. Prerequisite(s): SPAN 3623.

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(s): SPAN 3661 or SPAN 3662.

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(s): SPAN 3623.

SPAN 4680 - Contemporary Literature of the Spanish-Speaking World (3)

Literary texts of the 20th and 21st centuries from Spain and Spanish America with emphasis on developing language skills through discussions and written assignments. Prerequisite(s): SPAN 3623.

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 15 semester hours.* Prerequisite(s): 18 semester hours of Spanish and consent of school chair.

EDSP 2100 - Education of the Exceptional Child (3)

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. Requires a directed field experience. Fall, Spring, Summer. Sometimes offered online.

This is a professional education course.

EDSP 3150 - Community and Family Resources (2)

Early clinical observations and experiences using community and family resources concerned with various kinds of exceptionality. Prerequisite(s): EDSP 2100 or EDSP 5200. Corequisite(s): EDSP 3151. Fall, Spring, Summer. Taught only as an online course.

This is a professional education course.

EDSP 3151 - Community and Family Resources Practicum (1)

Provides opportunities for pre-service teachers to evaluate how community and family resources impact directly/indirectly on the lives of children. Requires a directed field experience. Prerequisite(s): EDSP 2100 or EDSP 5200. Corequisite(s): EDSP 3150. Fall, Spring, Summer. Taught only as an online course.

This is a professional education course.

EDSP 4000 - Special Projects in Special Education (1-5)

Individual or group study of problems in special areas of interest. *May be repeated for a maximum of 5 semester hours.*

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. Requires a directed field experience. This course is co-listed with EDSP 5140. Prerequisite(s): EDSP 2100 Fall, Spring, Summer.

This is a professional education course.

EDSP 4150 - Career Development for Students with Disabilities (2)

Supportive services to students with disabilities within a career development context. This course is co-listed with EDSP 5150. Prerequisite(s): EDSP 2100 Fall, Spring.

This is a professional education course.

EDSP 4161 - Physical and Health Care Needs of Students with Autism and Severe Developmental Disabilities (2)

Designed to assist teachers in understanding and planning for the physical and health care needs of students with autism and severe developmental disabilities. This course is co-listed with EDSP 5161. Prerequisite(s): EDSP 2100 .

EDSP 4210 - Teaching Emergent and At-Risk Readers (3)

Instruction in the identification and remediation of significant reading disorders in children and youth with Moderate to Severe disabilities, including those with severe learning disabilities, cognitive impairments, and Autism Spectrum Disorders. A directed clinical experience in the diagnostic/prescriptive assessment process is required. This course is co-listed with EDSP 5210. Prerequisite(s): ECEL 3225 or EDFL 3230; EDSP 2100 or EDSP 5200. Fall, Spring.

EDSP 4310 - Introduction to Students with Autism and Severe Developmental Disabilities (2)

Basic information pertaining to the characteristics, education, and care of individuals with severe forms of Autism Spectrum Disorders and individuals with severe Developmental Disabilities. Requires a directed field experience. This course is co-listed with EDSP 5310. Prerequisite(s): EDSP 2100 Spring, in odd numbered years only

This is a professional education course.

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. This course is co-listed with EDSP 5320. Prerequisite(s): EDSP 2100

This is a professional education course.

EDSP 4330 - Curriculum and Methods for Teaching Students with Autism and Severe Developmental Disabilities I (3)

Teaching methodologies and curricula used in learning programs for individuals with severe forms of Autism Spectrum Disorders and for individuals with Severe Developmental Disabilities. Prerequisite(s): EDSP 2100 or EDSP 5200. Fall, in odd numbered years only

This is a professional education course.

EDSP 4350 - Augmentative and Alternative Communication (3)

Study and application of communication options, including manual sign language and communication devices. This course is co-listed with EDSP 5450. Prerequisite(s): EDSP 2100 Spring.

This is a professional education course.

EDSP 4360 - Behavioral Management Techniques (2)

Practical approaches to behavior management for the classroom teacher, special educator, or clinician. This course is co-listed with EDSP 5360. Prerequisite(s): EDSP 2100 Fall, Spring, Summer.

This is a professional education course.

EDSP 4361 - Practicum in Behavioral Management Techniques (1)

Practical experience in designing behavioral management programs and environments under supervision. Requires a directed field experience. This course is co-listed with EDSP 5361. Prerequisite(s): EDSP 4360 or concurrently. Fall, Spring, Summer.

This is a professional education 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. Requires a directed field experience. This course is co-listed with EDSP 5370. Prerequisite(s): EDSP 2100 Fall, Spring, Summer.

This is a professional education course.

EDSP 4385 - Introduction to Cross-Categorical Special Education (3)

Information about the characteristics and education of children with mild/moderate disabilities. This course is co-listed with EDSP 5385. Prerequisite(s): EDSP 2100 Spring. Taught only as an online course.

This is a professional education course.

EDSP 4420 - Methods of Cross-Categorical Special Education (3)

Teaching methods, materials and curricula for education of students with mild/moderate disabilities. This course is co-listed with EDSP 5420. Prerequisite(s): EDSP 4385. Fall, Spring. Taught only as an online course.

This is a professional education course.

EDSP 4421 - Methods of Cross-Categorical Special Education I: Intellectual Disabilities/Other Health Impairments (3)

Strategies for addressing general problems in teaching students with Intellectual Disabilities and Other Health Impairments in Cross-Categorical and other settings, including planning, materials and methods used. Requires a directed field experience. Prerequisite(s): Admission to Teacher Education Program and EDSP 4385.

This is a professional education course.

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. Requires a directed field experience. Prerequisite(s): Admission to Teacher Education Program and EDSP 4385. Fall.

This is a professional education course.

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. Requires a directed field experience. Prerequisite(s): Admission to Teacher Education Program and EDSP 4385. Fall.

This is a professional education course.

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. Requires a directed field experience. This course is co-listed with EDSP 5440. Prerequisite(s): Admission to Teacher Education Program and EDSP 4320 and EDSP 4370.

This is a professional education course.

EDSP 4450 - Curriculum and Methods for Teaching Students with Autism and Severe Developmental Disabilities II (3)

Advanced teaching methodologies and curricula used in learning programs for individuals with severe forms of Autism Spectrum Disorders and individuals with Severe Developmental Disabilities. Prerequisite(s): EDSP 4330 and Admission to Teacher Education Program. Fall, in odd numbered years only

This is a professional education course.

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. Requires a directed field experience. This course is co-listed with EDSP 5620. Prerequisite(s): EDSP 2100. An additional fee is assessed for this course. Fall, Spring.

This is a professional education course.

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. This course is co-listed with EDSP 5690. Prerequisite(s): EDSP 4620 and Admission to Teacher Education Program or Speech Pathology major. Fall, Spring.

This is a professional education course.

SM 1100 - Introduction to Sport Management (3)

An introduction to the field of sport management, introducing the concepts, scope, organization and common practices in the sport management industry.

SM 2300 - Leisure and Sport (3)

Examination of the role of leisure services in the 21st century including an in-depth analysis of relevant concepts, industry dynamics, and trends. Prerequisite(s): SM 1100.

SM 3210 - Sport and Media (3)

Introduce students to the importance of sport to the mass media, the work of sport journalists and sport broadcasting. Students will gain factual knowledge about the sport industry and specifically the symbiotic relationship between sport and the media. Prerequisite(s): SM 1100.

SM 3500 - Sport Leadership (3)

A study of leadership theories, concepts, and applications as they apply to athletic and sport organizations. This course will explore traits and behaviors of leaders, power and influence dynamics between leaders and led, leading groups, and effective sport organization processes. Prerequisite(s): SM 1100.

SM 3600 - Sport Finance (3)

Introduce the financial and managerial accounting concepts that apply to the sport business industry. Topics include: revenues and expenses, budgeting methods, fund-raising, ownership and funding issues in sport, and other contemporary finance issues in sport. Prerequisite(s): SM 1100.

SM 3700 - Sport Facility Management (3)

An introduction to sport facility management, facility development, facility systems and operation, and facility administration. Prerequisite(s): SM 1100.

SM 3720 - Managing Sport Events (3)

An introduction to sport event management through a practical application of foundational concepts. Prerequisite(s): SM 1100.

SM 4000 - Seminar in Sport Management (3)

Study and discussion of professional issues, trends, and basic risk management principles in a seminar format. Prerequisite(s): junior or senior standing and approval of the instructor.

SM 4200 - Applied Sport Marketing (3)

Examination of the elements of strategic sport marketing process and its applications to developing sport marketing plans. Topics include analysis of market contingencies, segmenting, targeting, and positioning, and various promotion and marketing mix strategies as they relate to organizations in the sport industry. Prerequisite(s): SM 1100 and MKT 3405.

SM 4220 - Sport Sponsorship and Retention (3)

Provide students with theoretical and empirical knowledge of sport sponsorship. Students will master topics including marketing, brand equity, marketing communication theories, sport sponsorship evaluations, and sport sponsorship proposals. Prerequisite(s): SM 1100 and SM 4200.

SM 4300 - Recreational Sport Management (3)

A study of theoretically based provisions of opportunities in recreational sport. Emphasis is on understanding all aspects of recreational sport programming. Prerequisite(s): SM 1100 and SM 2300.

SM 4400 - Sport Communication (3)

Provide an introduction to the area of sport communication. Topics include: historical and theoretical features of the field, sport information, public relations, media production, personal and organizational processes, sport media, services and support systems, and sociological and legal aspects. Prerequisite(s): SM 1100.

SM 4980 - Internship (6)

A 400-hour field experience applying sport management principles and theories in an approved sport management setting. *May be repeated for a maximum of 12 semester hours.* Prerequisite(s): SM 4000 and consent of instructor.

TECH 2040 - Calculus for Technology (3)

Application of the fundamental concepts of differential and integral calculus to technology. Prerequisite(s): MATH 1111 ,MATH 1112. An additional fee is associated with this course.

TECH 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(s): consent of a review committee of three faculty members in the school. An additional fee is associated with this course.

TECH 4020 - Industrial Energy Management (3)

Energy efficient techniques in a variety of industrial settings. An additional fee is associated with this course.

TECH 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. An additional fee is associated with this course.

TECH 4950 - Seminar in Technology Management (3)

Capstone course for technology management majors applying and analyzing skills in teamwork, problem solving, and evaluation of current issues through case studies. Prerequisite(s): senior standing. An additional fee is associated with this course.

THEA 1100 - Oral Interpretation GE (3)

Skills used to convey the intellectual, emotional, and aesthetic values of literature to an audience.

UCM General Education Competency: This course fulfills Foundational Skills Competency #2 in the Communication area of the UCM General Education Program.

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 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 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. An additional fee is associated with this course.

THEA 1610 - Stage Make-up (3)

Materials and methods of application of make-up artistry for cosmetic and character effects on stage.

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(s): consent.

THEA 2400 - Discovering Theatre GE (3)

An introductory examination of theatre and theatrical production, the work of the individual theatre artists involved in the process, and a survey of the drama and developments of major theatrical periods in theatre history.

This course is equivalent to MOTR THEA 100 Theatre Appreciation in the Humanities & Fine Arts Knowledge Area.

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 2630 - Drafting for the Theatre (3)

Provides students with modern drafting tools and standardized drafting techniques commonly used in theatrical drafting and visual communication for both design and technical purposes.

THEA 3220 - Children's Theatre (3)

The study and practice of producing plays for a children's audience. Spring.

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(s): THEA 1500.

THEA 3600 - Scene Design (3)

Theory and practice of design as applied to scenery for modern theatrical production. Prerequisite(s): theatre majors, THEA 1600; art majors, ART 2330 or ART 3910.

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. Prerequisite(s): THEA 1500, THEA 1600, THEA 3700 and departmental consent.

THEA 3700 - Directing (3)

Problems, principles, and employment of various directing styles, and the adaptation of directing techniques to various physical facilities. Prerequisite(s): THEA 1500 and THEA 1600.

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(s): consent.

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(s): 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.

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. Fall.

THEA 4420 - Literature and History of the Theatre II (3)

Works and writers for the stage from 1700 to 1915. The development of theatrical modes and presentation and their influences upon the drama of each period. Spring.

THEA 4430 - American Musical Theatre History (3)

History, literature and production of the American Musical.

THEA 4440 - Literature and History of the Theatre III (3)

Works and writers for the stage from 1915 to present day. The development of theatrical modes and presentation and their influences upon the drama of each period.

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 semester hours.* Prerequisite(s): 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 semester hours.*

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(s): 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. Prerequisite(s): THEA 1600.

THEA 4620 - Period Research (3)

Will examine the art, architecture, fashion, decorative arts, and music of Western Civilization from ancient Greece to modernity, and the intellectual, spiritual, social, and economic ideas that they reflect.

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 semester hours.*
Prerequisite(s): THEA 3700.

THEA 4730 - Studio Theatre II (1)

Direction of a play in the Studio Theatre series at approximately the senior class level. Prerequisite(s): THEA 3630 and departmental consent.

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.*

THEA 4810 - Musical Theatre Laboratory (3)

Students refine their acting, singing and dancing techniques while developing the necessary skills to prepare audition materials and prepare for the professional world.

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(s): enrollment by school 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.

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. Prerequisite(s): admission to Teacher Education Program; should be taken concurrently with THEA 4984 during the Professional Semester.

This is a professional education course.

THEA 4930 - Co-Curricular Practicum (2)

Occurs during the first four weeks of the student teaching semester and is designed to ensure that teacher education candidates have mastered specific techniques for the coaching and administrating of Speech and Debate teams and for engaging in play production at the high school level. The one credit hour field experience course (THEA 4920) is taken concurrently with this course. THEA 4920 provides student teaching candidates opportunities to observe and interact with high school students in the classroom setting. In both courses, an increased emphasis is placed on teaching performance strategies as well as organizational and classroom and rehearsal management skills specific to the speech communication and theatre classroom in order to prepare students for their student teaching experience and subsequent teaching career.

THEA 4984 - Methods of Teaching Speech and Theatre (2)

Prerequisite(s): 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.

This is a professional education course.

UNIV 1240 - LSAT Test Preparation (1)

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. Spring.

UNIV 1250 - GRE Test Preparation (1)

Designed to help students prepare to take the GRE by becoming more familiar with the test format used by GRE, the scoring system, and how to register for the test. Students will be provided with tips and strategies for answering questions in the verbal reasoning and quantitative reasoning sections, as well as practice for the two writing samples. Audit or P/F credit only. Fall, Spring.

UNIV 1400 - University Foundations (1)

Designed to help the first-year student and those in transition to: actively explore critical thinking, develop a sense of belonging to UCM, develop self-awareness of social and civic responsibility, and gain a desire for lifelong learning. Fall, Spring.

UNIV 1410 - Exploring Majors and Careers (1)

A career development course designed to introduce students to a wide range of academic programs and career options. Special emphasis is given to an exploration of self through the use of career assessments and individual career counseling sessions, as well as individual and group activities, discussions, and interviews specifically designed to facilitate a methodical approach to assist students with identifying "right fit" career options, and the academic paths that lead to those options. An additional fee is associated with this course. Fall, Spring.

UNIV 1800 - Special Projects (0.5-3)

Individual or group study of material in special areas of interest. *May be repeated for a maximum of 6 semester hours.* Fall, Spring, Summer.

UNIV 1820 - Learning Strategies (2)

Learning Strategies helps students develop college-level study skills. The course work emphasizes strategies for taking lecture notes, reading textbooks, managing time, setting goals, processing information, and taking tests. Course restricted to freshmen and sophomores or by instructor consent. Fall, Spring, Summer.

UNIV 1826 - Supplemental Instruction Lab (0)

Supplemental Instruction is a structured learning lab for the designated course(s) in which the student is concurrently enrolled. *May be repeated for a maximum of 6 semester hours.* Fall, Spring.

UNIV 3000 - Career Readiness (1-2)

This course will provide assistance for students in building and preparing their personal career readiness plan. The course will provide resources, activities and information on the eight National Association of College and Employers (NACE) career competencies: critical thinking/problem solving, oral/written communications, teamwork/collaboration, digital technology, leadership, professionalism/work ethic, career management, and global/intercultural fluency.

UNIV 4001 - Research Writing & GRE Prep (1)

Instruction in academic research and writing; preparation for taking the Graduate Record Exam. Required of and open only to students in UCM's McNair Scholars Program Summer Research Internship.

WGS 1050 - Women's Voices GE (3)

Exploring the gendered viewpoints and voices of a variety of writers, filmmakers, and activists. Although some of the focus of the course is women's experiences, the course also expands the category to include a range of diverse perspectives. Course topics include: gender identity, feminism, media representation, body image and beauty ideals, reproductive rights, and trans* issues. Prerequisite(s): This course fulfills Knowledge Competency #6 and reinforces Foundational Skills Competency #4 in the Fine Arts area of the UCM General Education Program.

WGS 2000 - Intersections: Gender, Race, Class GE (3)

Explores how interactions of multiple social categories, including race, class, sexuality, and more, shape our experiences of gender. It utilizes an interdisciplinary social science approach drawing from sociology, history, political science, and other fields to examine the institutional bases of privilege and oppression in modern American society. The course places special emphasis on connecting scholarship to our lived experiences and considering how we can create change in our lives and society.

UCM General Education Competency: This course fulfills Knowledge Competency #8 and reinforces Foundational Skills Competency #1 in the Social & Behavioral Sciences area of the UCM General Education Program.

WGS 2050 - Sexuality, Identity & Social Action GE (3)

Explores major debates over sexuality from an interdisciplinary perspective asking questions about identity, power, and cultural difference. Considers the role of social action in a plural society.

UCM General Education Competency: This course fulfills Knowledge Competency #9 and Foundational Skills Competency #4 in the Engagement area of the UCM General Education Program.

WGS 4000 - Internship (3)

Allows a student direct experience working on behalf of gender and sexuality issues in organizations or advocacy groups. Provides a context to think critically about how feminist work is accomplished. Prerequisite(s): 2 courses from the following: WGS 1050, WGS 2000, or WGS 2050.

WGS 4810 - Special Projects in Women, Gender & Sexuality (1-6)

Individual study or one-time courses focused on specialized issues in Women, Gender and Sexuality. This course is co-listed with WGS 5810. *May be repeated for a maximum of 9 semester hours.*

WGS 4850 - Feminist and Queer Theories (3)

This course introduces key themes in contemporary feminist and queer discourse and encourages students to cultivate critical thinking about gender and sexuality relations and inequalities. Covering foundational works as well as current developments, this course centers the relationship between theory, social justice, and activism to explore how these can and should be mutually-informing projects. Prerequisite(s): 2 courses from the following: WGS 1050, WGS 2000, or WGS 2050.