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

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester CIS 1600 Business Information Management (GE)* ECON 1010 Principles of Macroeconomics (GE)* ENGL 1020 Composition I (GE) MATH 1111 College Algebra (GE)* General Education Semester Total AE 1400 or BADM 1400 University Foundations**	Hrs 3 3 3 3 1 5 1	Freshman Year - Spring Semester COMM 1000 Public Speaking or COMM 1050 Fundamentals of Oral Communication Competency (GE) ECON 1011 Principles of Microeconomics* ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE General Education Semester Total	Hrs 3 3 3 6 15
Sophomore Year - Fall Semester ACCT 2101 Principles of Financial Accounting*# BLAW 2720 Legal Environment of Business* General Education Semester Total	Hrs 3 3 10 16	Sophomore Year - Spring Semester ACCT 2102 Principles of Managerial Accounting *# ACCT 3110 Intermediate Financial Accounting I***# FIN 2801 Business Statistics I* General Education Semester Total Note: Complete all B.S.B.A. admission requirements.*	Hrs 3 3 6 15
Junior Year - Fall Semester ACCT 3111 Intermediate Financial Accounting II# ACCT 3120 Cost & Managerial Accounting# FIN 3801 Business Statistics II MGT 3315 Management of Organizations MKT 3405 Marketing Policy Semester Total	Hrs 3 3 3 3 3 3 15	Junior Year - Spring Semester ACCT 3112 Intermediate Financial Accounting III# ACCT 3130 Introduction to Income Tax# BLAW 3721 Law of Business Transactions FIN 3850 Principles of Finance MGT 3325 Business Communications Free Choice Elective (may not be an ACCT prefix)## Semester Total	Hrs 3 3 3 3 1 16
Senior Year - Fall Semester ACCT 3160 Accounting Information Systems# ACCT 4100 Advanced Accounting I CIS 3650 Database Management Systems MGT 3360 Supply Chain and Operations Management 3000/4000 Level Non-Accounting Business Elective## Semester Total	Hrs 3 3 3 3 3 1 5	Senior Year - Spring Semester ACCT 4105 Auditing ACCT 4130 Advanced Income Tax MGT 4357 Organizational Policy and Strategy ¹⁰ 3000/4000 Level Non-Accounting Business Elective## Free Choice Electives (may not be an ACCT prefix)## Semester Total	Hrs 3 3 3 3 4 16

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

- *Accountancy majors must complete eight preadmission courses with a grade of C or higher and obtain a 2.65 cumulative GPA and a 2.65 in these specific courses for admission to the degree program. These courses are recommended for completion during the freshman and sophomore years.
- **AE 1400 and BADM 1400 (1 hr.) are free choice electives and are highly recommended for academic success. If AE 1400 or BADM 1400 is chosen, 1 less hour of free choice electives will be needed.
- ***Apply for integrated 150-hour BSBA/MA program, if interested, while enrolled in ACCT 3110 .
- #Grade of "C" or higher required for sophomore and junior level Accounting courses.
- ##To satisfy accreditation standards students must earn 90 of the required 123 hours in courses with non-ACCT prefixes. This requires that all business and free electives be earned in courses with prefixes other than ACCT. Accounting students that wish to use internship credit to fulfill elective hours may do so by enrolling in a MGT or FIN internship course.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- Some courses in this major require a certain cumulative gpa and/or a minimum grade of C in all prerequisite courses, see the most current Undergraduate Catalog for details.
- A 2.65 cumulative GPA is required for graduation in this major.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA after they earn 45 credit hours but before earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

Actuarial Science and Statistics Major - Option 1 Actuarial Science, B.S. Degree (43-01576)

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester ACST 1300 Basic Statistics (GE) CS 1100 Computer Programming I ECON 1010 Principles of Macroeconomics (GE) MATH 1151 Calculus & Analytic Geometry I (GE) Semester Total AE 1400 University Foundations*	Hrs 3 3 5 14 1	Freshman Year - Spring Semester CS 3800 Applications Development with VB.NET** MATH 1152 Calculus & Analytic Geometry II MATH 2410 Discrete Mathematics Free Choice Electives# (ECON 1011 Microeconomics^) Semester Total	Hrs 3 5 3 3 14
Sophomore Year - Fall Semester ACST 3311 Introduction to Math Statistics** ENGL 1020 Composition I (GE) MATH 2153 Calculus & Analytic Geometry III General Education Semester Total	Hrs 3 3 3 6 15	Sophomore Year - Spring Semester ACST 4312 Probability Models** ACST 4501 Actuarial Exam Review Problem Set I** ACST 4510 Mathematics of Finance*** ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) General Education Semester Total	Hrs 3 1 3 3 6 16

Junior Year - Fall Semester ACST 4321 Applied Statistics I** ACST 4511 Actuarial Exam Review Problem Set II** ECON 3010 Intermediate Macroeconomics** FIN 4817 Managing Financial Derivatives** General Education Semester Total	Hrs 3 1 3 3 6 16	Junior Year - Spring Semester FIN 3861 Financial Management I FIN 4803 Principles of Insurance Major Elective## (ECON 3030 Intermed. Microeconomics^) General Education Free Choice Elective# Semester Total	Hrs 3 3 3 3 3 3 15
Senior Year - Fall Semester ACST 4322 Applied Statistics II** ACST 4520 Life Contingencies I** Major Elective## General Education Semester Total	Hrs 3 3 3 6 15	Senior Year - Spring Semester ACST 4530 Statistical Modeling** ACST 4645 Senior Projects in Actuarial Science & Statistics ¹⁰ Major Elective## Free Choice Electives# Semester Total	Hrs 3 3 6 15

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

- *AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- **This course is only offered during the semester indicated.
- #The number of free choice electives required will depend on selections made in the major and general education.
- ##This major Option requires 9 hours of major electives. See the Undergraduate Catalog for a list of appropriate choices.
- ^To qualify for actuarial certification, the department recommends taking ECON 1011 for 3 hours of free choice electives and ECON 3030 for 3 hours of major electives.
- 10This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA after they earn 45 credit hours but before earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

Actuarial Science and Statistics Major - Option 2 Statistics, B.S. Degree (43-02576)

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester ACST 1300 Basic Statistics (GE) CS 1100 Computer Programming I ENGL 1020 Composition I (GE) MATH 1151 Calculus & Analytic Geometry I (GE) Semester Total AE 1400 University Foundations*	Hrs 3 3 5 14 1	Freshman Year - Spring Semester CS 1110 Computer Programming II ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) MATH 1152 Calculus & Analytic Geometry II MATH 2410 Discrete Mathematics General Education Semester Total	Hrs 3 5 3 3 17
Sophomore Year - Fall Semester ACST 3311 Introduction to Math Statistics** MATH 2153 Calculus & Analytic Geometry III MATH 3710 Linear Algebra General Education Semester Total	Hrs 3 3 6 15	Sophomore Year - Spring Semester ACST 4312 Probability Models** MATH 3151 Differential Equations** General Education Semester Total	Hrs 3 3 9 15

Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
ACST 4321 Applied Statistics I**	3	ACST 4323 Statistical Aspects of Experimental Design**	3
Major Electives#	4	General Education	3
General Education	9	Free Choice Electives##	9
Semester Total	16	Semester Total	15

Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
ACST 4322 Applied Statistics II**	3	ACST 4530 Statistical Modeling**	3
ACST 4331 SAS Programming for Statistical Analysis	3	ACST 4645 Senior Projects in Actuarial Science & Statistics ¹⁰	3
Major Electives#	6	Major Elective#	4-5
Free Choice Electives##	3	Free Choice Electives##	2-3
Semester Total	15	Semester Total	13

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

- *AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- **This course is only offered during the semester indicated.
- # This major Option requires 14-15 hours of major electives. See the Undergraduate Catalog for a list of appropriate choices.
- ##The number of free choice electives required will depend on selections made in the major and general education.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA after they earn 45 credit hours but before earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

Agricultural Science Major - Area 1: Agribusiness Management, B.S. Degree (43-277)

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester AGRI 1100 Introduction to Agriculture AGRI 1420 Animal Husbandry COMM 1000 Public Speaking (GE) ECON 1010 Principles of Macroeconomics (GE) ENGL 1020 Composition I (GE) LIS 1600 University Library and Research Skills (GE) Semester Total	Hrs 1 3 3 3 2 15	Freshman Year - Spring Semester AGRI 1600 Introduction to Horticulture Science (Lab) (GE) AGRI 2425 Livestock Evaluation (Lab) CHEM 1104 Introduction to the Sciences: Chemistry (Lab) (G ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) MATH 1111 College Algebra (GE) Semester Total	
Sophomore Year - Fall Semester AGRI 2330 Introduction to Soil Science (Lab) General Education Semester Total	Hrs 3 9 12	Sophomore Year - Spring Semester ACCT 2101 Principles of Financial Accounting or ACCT 2100 Survey of Accounting AGRI 2130 Global Agriculture (GE) AGRI 1310 Agronomy I: Row Crops (fall only) or AGRI 2315 Agronomy II: Forages (spring only) ECON 1011 Principles of Microeconomics General Education Semester Total	Hrs 3 3 2 3 6 17
Junior Year - Fall Semester AGRI 3110 Agri-Business Management AGRI 3140 Agricultural Analysis and Statistics AGRI 3410 Animal Breeding or AGRI 4310 Plant Breeding & Genetics MGT 3325 Business Communications MKT 3430 Professional Sales Semester Total	Hrs 3 3 3 3 3 3 15	Junior Year - Spring Semester AGRI 4140 Agricultural Policy AGRI 4300 Soil Fertility & Fertilizers Free Choice Electives Semester Total	Hrs 3 8 14
Senior Year - Fall Semester AGRI 3120 Distrib. and Marketing of Agriculture Products AGRI 3610 Agriculture Pest Management AGRI 3810 Internship in Agriculture BLAW 2720 Legal Environment of Business Free Choice Electives Semester Total	Hrs 3 3 3 3 3 3 1 5	Senior Year - Spring Semester AGRI 4101 Agricultural Capstone Experience ¹⁰ AGRI 4110 Agricultural Futures Trading AGRI 4120 International Agriculture AGRI 4150 Natural Resources Economics Free Choice Electives Semester Total	Hrs 3 3 3 3 3 15

Agricultural Science Major, Area 1: Agribusiness Management B.S. Degree - 120 hours

- Your four-year guide will vary depending on the year (odd or even) and semester that you begin coursework. See your department chair for current curriculum information.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA after they earn 45 credit hours but before earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

Agricultural Science Major - Area 2: Animal Science, B.S. Degree (43-277)

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester AGRI 1100 Introduction to Agriculture AGRI 1420 Animal Husbandry COMM 1000 Public Speaking (GE) ECON 1010 Principles of Macroeconomics (GE) ENGL 1020 Composition I (GE) LIS 1600 University Library and Research Skills (GE) Semester Total	Hrs 1 3 3 3 2 15	Freshman Year - Spring Semester AGRI 1600 Introduction to Horticulture Science (Lab) (GE) AGRI 2425 Livestock Evaluation (Lab) CHEM 1104 Introduction to the Sciences: Chemistry (Lab) (GI ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) MATH 1111 College Algebra (GE) Semester Total	Hrs 4 3 4 3 3 17
Sophomore Year - Fall Semester AGRI 2130 Global Agriculture (GE) AGRI 2330 Introduction to Soil Science (Lab) AGRI 3420 Animal Nutrition ECON 1011 Principles of Microeconomics General Education Semester Total	Hrs 3 3 3 3 3 15	Sophomore Year - Spring Semester AGRI 1310 Agronomy I: Row Crops (fall only) or AGRI 2315 Agronomy II: Forages (spring only) General Education Semester Total	Hrs 2 12 14
Junior Year - Fall Semester AGRI 3110 Agri-Business Management AGRI 3120 Distribution and Marketing of Agriculture Products AGRI 3415 Meat Science AGRI 4415 Reproduction of Farm Animals Free Choice Electives Semester Total	Hrs 3 3 3 3 3 3 15	Junior Year - Spring Semester AGRI 4110 Agricultural Futures Trading AGRI 4300 Soil Fertility & Fertilizers AGRI 4435 Animal Science: Pork Free Choice Electives Semester Total	Hrs 3 3 6 15
Senior Year - Fall Semester AGRI 3410 Animal Breeding or AGRI 4310 Plant Breeding & Genetics AGRI 3610 Agriculture Pest Management AGRI 3810 Internship in Agriculture Free Choice Electives Semester Total	Hrs 3 3 6 15	Senior Year - Spring Semester AGRI 4101 Agricultural Capstone Experience ¹⁰ AGRI 4410 General Veterinary Science AGRI 4430 Animal Science: Beef Free Choice Electives Semester Total	Hrs 3 3 5 14

Agricultural Science Major - Area 2: Animal Science, B.S. Degree - 120 hours

- Your four-year guide will vary depending on the year (odd or even) and semester that you begin coursework. See your department chair for current curriculum information.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA after they earn 45 credit hours but before earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

Agricultural Science Major - Area 3: Agronomy, B.S. Degree (43-277)

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester AGRI 1100 Introduction to Agriculture AGRI 1420 Animal Husbandry CHEM 1104 Introduction to the Sciences: Chemistry (Lab) (GE COMM 1000 Public Speaking (GE) ENGL 1020 Composition I (GE) Semester Total	Hrs 1 3 E) 4 3 3 14	Freshman Year - Spring Semester AGRI 1600 Introduction to Horticulture Science (Lab) (GE) ECON 1010 Principles of Macroeconomics (GE) ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) MATH 1111 College Algebra (GE) General Education Semester Total	Hrs 4 3 3 3 3 16
Sophomore Year - Fall Semester AGRI 1310 Agronomy I: Row Crops (fall only) or AGRI 2315 Agronomy II: Forages (spring only) AGRI 2330 Introduction to Soil Science (Lab) ECON 1011 Principles of Microeconomics General Education Semester Total	Hrs 2 3 6 14	Sophomore Year - Spring Semester AGRI 2130 Global Agriculture (GE) AGRI 2425 Livestock Evaluation (Lab) LIS 1600 University Library and Research Skills (GE) General Education Semester Total	Hrs 3 2 6 14
Junior Year - Fall Semester AGRI 3110 Agri-Business Management AGRI 4320 Plant Diseases AGRI 3610 Agriculture Pest Management (Lab) GEOG 4220 Geographic Information Systems I Free Choice Electives Semester Total	Hrs 3 3 3 3 3 15	Junior Year - Spring Semester AGRI 2331 Soils AGRI 3210 Soil & Water Management AGRI 4300 Soil Fertility & Fertilizers Free Choice Electives Semester Total	Hrs 3 3 7 16
Senior Year - Fall Semester AGRI 3120 Distribution and Marketing of Agriculture Products AGRI 3410 Animal Breeding or AGRI 4310 Plant Breeding & Genetics AGRI 3810 Internship in Agriculture AGRI 4340 Agricultural Sprays and Chemicals (Lab) Free Choice Electives Semester Total	Hrs 3 3 3 3 4 16	Senior Year - Spring Semester AGRI 3320 Field Crop Management AGRI 4101 Agricultural Capstone Experience ¹⁰ AGRI 4110 Agricultural Futures Trading AGRI 4120 International Agriculture Free Choice Electives Semester Total	Hrs 3 3 3 3 3 15

Agricultural Science Major - Area 3: Agronomy, B.S. Degree - 120 hours

- Your four-year guide will vary depending on the year (odd or even) and semester that you begin coursework. See your department chair for current curriculum information.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

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

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Freshman Year - Fall Semester AGRI 1100 Introduction to Agriculture AGRI 1420 Animal Husbandry CHEM 1104 Introduction to the Sciences: Chemistry (Lab) (GE ENGL 1020 Composition I (GE) LIS 1600 University Library and Research Skills (GE) General Education Semester Total	Hrs 1 3 2 3 16	Freshman Year - Spring Semester AGRI 1600 Introduction to Horticulture Science (Lab) (GE) COMM 1000 Public Speaking (GE) ECON 1010 Principles of Macroeconomics (GE) ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) MATH 1111 College Algebra (GE) Semester Total	Hrs 4 3 3 3 3 16
Sophomore Year - Fall Semester AGRI 2330 Introduction to Soil Science (Lab) ECON 1011 Principles of Microeconomics General Education Semester Total	Hrs 3 6 12	Sophomore Year - Spring Semester AGRI 1310 Agronomy I: Row Crops (fall only) or AGRI 2315 Agronomy II: Forages (spring only) AGRI 2130 Global Agriculture (GE) AGRI 2425 Livestock Evaluation (Lab) General Education Semester Total	Hrs 2 3 6 14
Junior Year - Fall Semester AGRI 3110 Agri-Business Management AGRI 4320 Plant Diseases AGRI 4600 Horticultural Plants I: Woody (Lab) AGRI 4610 Turfgrass Science (Lab) Free Choice Electives Semester Total	Hrs 3 3 3 3 3 3 15	Junior Year - Spring Semester AGRI 3610 Agricultural Pest Management (Lab) AGRI 3620 Residential Landscape Design (Lab) AGRI 4300 Soil Fertility & Fertilizers AGRI 4605 Horticultural Plants II: Herbaceous Free Choice Electives Semester Total	Hrs 3 3 3 3 3 3 15
Between Junior and Senior Year - Summer AGRI 3810 Internship in Agriculture Semester Total	Hrs 3 3		
Senior Year - Fall Semester AGRI 3120 Distribution and Marketing of Agriculture Products AGRI 3410 Animal Breeding or AGRI 4310 Plant Breeding & Genetics AGRI 4340 Agricultural Sprays and Chemicals Free Choice Electives Semester Total	Hrs 3 3 6 15	Senior Year - Spring Semester AGRI 3640 Horticultural Propagation Materials (Lab) AGRI 4000 Special Projects in Agriculture AGRI 4101 Agricultural Capstone Experience ¹⁰ Free Choice Electives Semester Total	Hrs 3 3 5 14

Agricultural Science Major - Area 4: Horticultural Science, B.S. Degree - 120 hours

- Your four-year guide will vary depending on the year (odd or even) and semester that you begin coursework. See your department chair for current curriculum information.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

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

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester ART 1110 Drawing I ART 1315 2-D Design ART 1800 Ideas & the Visual Arts (GE) ENGL 1020 Composition I (GE) General Education Semester Total AE 1400 University Foundations*	Hrs 3 3 3 3 3 15 1	Freshman Year - Spring Semester ART 1120 Drawing II ART 1325 Color and Design ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) HIST 1350 or 1351 History of the United States (GE) General Education MATH General Education Semester Total	Hrs 3 3 3 3 3 3 3 18
Sophomore Year - Fall Semester ART 2412 Ceramics I EDFL 2100 Introduction to the Teaching Profession FLDX 2150 Introductory Field Experience EDFL 2240 Educational Psychology EDSP 2100 Education of the Exceptional Child POLS 1510 American Government (GE) Semester Total	Hrs 3 1 3 3 3 3 16	Sophomore Year - Spring Semester ART 1825 Art History Survey II ART 1835 Global Arts & Culture (GE) ART 2420 Sculpture I ART 2710 Printmaking I General Education Science w/lab General Education (Managing Information) Semester Total (Successfully complete MoGEA exam by end of this semester	Hrs 3 3 3 4 2 18
Junior Year - Fall Semester ART 2511 Painting I ART 3314 Fibers ART 3911 Art Education Foundations & Literacy (fall only) EDFL 4210 Introduction to Content Area Literacy PHOT 1203 Introduction to Photography General Education Semester Total	Hrs 3 2 2 3 3 16	Junior Year - Spring Semester ART 3209 Figure Construction ART 3915 Methods of Tchng Art I: Media & Curr. (sprg only) ART 4850 20th Century Art & Architecture (fall only) or ART 4860 Contemporary Art & Design (spring only) EDFL 2250 Introduction to English Language Learners and Culturally Responsive Pedagogy FIDX 3000 Field Experience in the Content Area# PSY 4230 Psychology of Adolescence (GE) Upper Level Studio Concentration Semester Total	Hrs 3 # 2 3 2 1 3 3 17
Senior Year - Fall Semester ART 4221 Art Theory and Criticism ART 4915 Methods of Tching Art II: Mgmt. & Assess. (fall on EDFL 4970 Secondary Teaching & Behavior Management FLDX 4970 Field Experience II in the Content Area Upper Level Studio Concentration General Education Semester Total	Hrs 3 2 1 3 3 15	 Senior Year - Spring Semester** ART 4920 Methods of Teaching Art III: Seminar for Student Teaching¹⁰ FLDX 4468 Student Teaching Secondary II¹⁰ FLDX 4495 Student Teaching Elementary I¹⁰ Semester Total 	Hrs 3 4 5 12

(All non-student teaching coursework and tests must be successfully completed by the end of this semester for enrollment in student teaching.)

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

- *AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective, however, this program does not require free choice electives.
- **The courses listed for this semester constitute the professional education (student teaching) block. The student should not take any other courses during this semester.
- #These courses must be taken concurrently.
- 10This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- The Missouri General Education Assessment (MoGEA) is an exam required of all Teacher Education students. Students must pass all
 areas of the MoGEA for admission to the Teacher Education Program. Students should take and successfully complete the MoGEA
 before completion of their sophomore year (60 earned hours). See your academic advisor to discuss the classes needed to prepare for
 the exam.
- Teacher Education candidates must take the appropriate Missouri Content Assessment (MoCA) for their certification area before they can student teach, and must pass it in order to be recommended for certification. Information and registration is available on the MEGA website: http://www.mo.nesinc.com/.
- See www.ucmo.edu/cert for statement and information (including application) on admission to teacher education. Full admission
 is required before enrollment in professional education classes and student teaching. The application for student teaching is due
 approximately one year in advance.

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

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester AT 1610 Introduction to Athletic Training AT 1611 Introduction to Athletic Training Lab I AT 1625 CPR/First Aid/AED for Health Care Professional CHEM 1104 Introduction to the Sciences: Chemistry (GE) ENGL 1020 Composition I (GE) MATH 1111 College Algebra (GE)** Semester Total AE 1400 University Foundations*	Hrs 2 1 4 3 3 14 1	Freshman Year - Spring Semester (apply to major) AT 1630 Foundations of Athletic Training AT 1631 Foundations of Athletic Training Lab II AT 1640 Medical Terminology AT 1650 Responding to Emergencies for the Profess. Rescuer BIOL 3401 Human Anatomy** LIS 1600 University Library and Research Skills (GE) PE 1800 Functional Anatomy** Semester Total	Hrs 2 1 1 3 2 3 2 3 15
Sophomore Year - Fall Semester AT 2610 Orthopedic Assessment: Lower Extremity AT 2611 Orthopedic Assessment: Lower Extremity Lab III AT 2640 Introduction to Therapeutic Rehabilitation BIOL 3402 Human Physiology HED 1100 Personal Health (GE) PE 2850 Foundations of Exercise Physiology** Semester Total Summer Semester (during even numbered years only) PE 4340 Adapted Physical Education Semester Total	Hrs 2 1 2 5 3 3 16 Hrs 3 3	Sophomore Year - Spring Semester AT 2620 Orthopedic Assessment: Upper Extremity AT 2621 Orthopedic Assessment: Upper Extremity Lab IV AT 2630 Therapeutic Modalities Lab AT 2631 Therapeutic Modalities Lab PE 2472 Communicating Ideas on Sport (GE) PE 2800 Biomechanics PSY 1100 General Psychology (GE) Semester Total	Hrs 2 1 2 1 3 3 3 15
Junior Year - Fall Semester AT 3620 Clinical Athletic Training Lab V AT 3630 Therapeutic Rehabilitation AT 3631 Therapeutic Rehabilitation Lab AT 3650 Sport & Exercise Pharmacology AT 4650 Human Disease Lab for Athletic Training CTE 3060 Technical Writing (GE) HED 4370 Human Diseases Semester Total	Hrs 2 2 1 2 1 3 3 14	Junior Year - Spring Semester AT 3640 Clinical Athletic Training Lab VI AT 4630 Organization & Administration of Athletic Training PE 4740 Legal Liability in Fit./Well., PE, Rec, & Sport Setting General Education Free Choice Elective Semester Total	Hrs 2 3 1s 2 6 1 14
Senior Year - Fall Semester AT 4610 Clinical Athletic Training Lab VII AT 4640 Senior Seminar in Athletic Training ¹⁰ PE 4830 Psychological Aspects of Physical Education PSY 4520 Statistics for the Behavioral Sciences General Education Semester Total	Hrs 2 2 2 3 6 15	Senior Year - Spring Semester AT 4620 Clinical Athletic Training Lab VIII HED 4300 Nutrition & Human Performance PE 4850 Assessment & Evaluation of Fitness/Wellness General Education Semester Total	Hrs 2 3 3 6 14

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

- *AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- **A grade of C or better is required in this course for enrollment in future courses. See the catalog course descriptions for more details.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- Admission to the Athletic Training major is a competitive process. Students apply to the program during the spring semester of their freshman year. Visit www.ucmo.edu/at for more details on the admissions process.
- UCM is fully accredited by the Commission on Accreditation of Athletic Training Education (CAATE).
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA after they earn 45 credit hours but before earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

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

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester ATM 1010 Contemporary Power Systems* ENGL 1020 Composition I (GE) ET 1010 Applied Electricity MATH 1111 College Algebra (GE) Semester Total	Hrs 3 4 3 13	Freshman Year - Spring Semester ACST 1300 Basic Statistics or MATH 1131 Applied Calculu ATM 2124 Automotive Braking Systems* CIS 1600 Business Information Management (GE) ECON 1010 Principles of Macroeconomics (GE) General Education Semester Total	Hrs 3 4 3 3 3 16
Sophomore Year - Fall Semester ATM 2110 Engine Theory & Maintenance* ATM 2130 Automotive Electrical Systems* COMM 1000 Public Speaking (GE) CS 1030 Introduction to Computer Programming (GE) Semester Total	Hrs 4 3 3 14	Sophomore Year - Spring Semester ACCT 2100 Survey of Accounting or ACCT 2101 Principles of Financial Accounting** ATM 2132 Fuel Systems & Emission Controls* ATM 2150 Mobile HVAC* CTE 3060 Technical Writing (GE) PHYS 1104 Introduction to the Sciences: Physics (GE) Semester Total	Hrs 3 4 3 3 4 17
Junior Year - Fall Semester ATM 2140 Manual Drivelines ATM 3120 Steering and Suspension Systems* ATM 3130 Computerized Engine Diagnostics* INDM 4210 Industrial Management or MGT 3315 Management of Organizations** Semester Total	Hrs 3 4 4 3 14	Junior Year - Spring Semester ATM 3110 Automotive Engine Overhaul ATM 3150 Diesel Technology* ATM 4130 Comprehensive Vehicle Diagnostics BLAW 2720 Legal Environment of Business General Education Semester Total	Hrs 4 4 3 3 18
Summer – Between Junior & Senior Year SOT 3022 Internship in Technology*** Semester Total	Hrs 3 3		
 Senior Year - Fall Semester ATM 3134 Advanced Powerplant Systems* ATM 4032 Hydraulics & Pneumatics COMM 3340 Intercultural Communication (GE) or ECEL 2110 Diversity and Social Justice (GE) MKT 3405 Marketing Policy** or HRM 3920 Human Resource Management General Education Semester Total 	Hrs 3 3 3 3 3 3 15	Senior Year - Spring Semester ATM 3140 Automatic Transmissions* ATM 4112 ATM Capstone Experience* ¹⁰ ATM 4134 Advanced Vehicle Systems* General Education Semester Total	Hrs 3 2 6 14

Automotive Technology Management Major - Area 1 Automotive Technology, B.S. Degree Automotive Technology Option - 124 hrs

- *This class is only offered during the semester indicated.
- **By selecting ACCT 2101, MGT 3315, and MKT 3405 in the major students can complete a minor in Business Administration.
- ***SOT 3022 Internship (3 hours) should be done during the summer between junior/senior year.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

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

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester ATM 1010 Contemporary Power Systems* ENGL 1020 Composition I (GE) ET 1010 Applied Electricity MATH 1111 College Algebra (GE) Semester Total	Hrs 3 4 3 13	Freshman Year - Spring Semester ACST 1300 Basic Statistics or MATH 1131 Applied Calculus ATM 2124 Automotive Braking Systems* CADD 11105 Basic AutoCAD+ CADD 1110 Fundamentals of Drafting+ CIS 1600 Business Information Management (GE) COMM 1000 Public Speaking (GE) Semester Total	Hrs s 3 4 1 3 3 3 17
Sophomore Year - Fall Semester ATM 2110 Engine Theory & Maintenance* ATM 2130 Automotive Electrical Systems* ECON 1010 Principles of Macroeconomics (GE) PHYS 1104 Introduction to the Sciences: Physics (GE) Semester Total	Hrs 4 3 4 15	Sophomore Year - Spring Semester ATM 2132 Fuel Systems & Emission Controls* CADD 1170 Introduction to Computer-Aided Drafting CS 1030 Introduction to Computer Programming (GE) CTE 3060 Technical Writing (GE) General Education Semester Total	Hrs 4 2 3 3 3 1 5
Junior Year - Fall Semester ATM 3120 Steering & Suspension Systems* ATM 3130 Computerized Engine Diagnostics* INDM 4210 Industrial Management or MGT 3315 Management of Organizations** General Education Semester Total	Hrs 4 4 3 3 14	Junior Year - Spring Semester ACCT 2100 Survey of Accounting or ACCT 2101 Principles of Financial Accounting** ATM 3150 Diesel Technology* ATM 4130 Comprehensive Vehicle Diagnostics BLAW 2720 Legal Environment of Business General Education Semester Total	Hrs 3 4 3 3 17
Summer – Between Junior & Senior Year SOT 3022 Internship in Technology*** Semester Total	Hrs 3 3		
Senior Year - Fall Semester ATM 3134 Advanced Powerplant Systems* ATM 4032 Hydraulics & Pneumatics COMM 3340 Intercultural Communication (GE) or ECEL 2110 Diversity and Social Justice (GE) Major Area 2 Elective# Semester Total	Hrs 3 3 3-4 12-13	Senior Year - Spring Semester ATM 4112 ATM Capstone Experience* ¹⁰ ATM 4134 Advanced Vehicle Systems* HRM 3920 Human Resource Management or MKT 3405 Marketing Policy** General Education Semester Total	Hrs 3 2 6 14

Automotive Technology Management Major - Area 2 Design Technology, B.S. Degree Design Technology Option - 120-121 hours

- *This class is offered only during the semester indicated.
- +A grade of C or higher is required in these courses for enrollment in future CADD courses.
- **By selecting ACCT 2101, MGT 3315, and MKT 3405 in the major, students can complete a minor in Business Administration.
- ***SOT 3022 Internship (3 hours) should be done during the summer between junior/senior year.
- #See the 2015 Undergraduate Catalog for acceptable courses for Major Option Area 2 Electives. Three to four hours are required.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral.

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

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester ATM 1010 Contemporary Power Systems* ENGL 1020 Composition I (GE) ET 1010 Applied Electricity MATH 1111 College Algebra (GE) Semester Total	Hrs 3 4 3 13	Freshman Year - Spring Semester ACST 1300 Basic Statistics or MATH 1131 Applied Calculu ATM 2124 Automotive Braking Systems* CIS 1600 Business Information Management (GE) ECON 1010 Principles of Macroeconomics (GE) General Education Semester Total	Hrs 3 4 3 3 3 16
Sophomore Year - Fall Semester ATM 2110 Engine Theory* ATM 2130 Automotive Electrical Systems* COMM 1000 Public Speaking (GE) PHYS 1104 Introduction to the Sciences: Physics (GE) Semester Total	Hrs 4 3 4 15	Sophomore Year - Spring Semester ATM 2132 Fuel Systems & Emission Controls* BLAW 2720 Legal Environment of Business CS 1030 Introduction to Computer Programming (GE) CTE 3060 Technical Writing (GE) General Education Semester Total	Hrs 4 3 3 3 3 16
Junior Year - Fall Semester ATM 3120 Steering & Suspension Systems* ATM 3130 Computerized Engine Diagnostics* INDM 4210 Industrial Management or MGT 3315 Management of Organizations** General Education Semester Total	Hrs 4 3 3 14	Junior Year - Spring Semester ACCT 2100 Survey of Accounting or ACCT 2101 Principles of Financial Accounting** ATM 3150 Diesel Technology* ATM 4130 Comprehensive Vehicle Diagnostics Major Option Area 3 Elective# Semester Total	Hrs 3 4 3 14
Summer – Between Junior & Senior Year SOT 3022 Internship in Technology*** Semester Total	Hrs 3 3		
Senior Year - Fall Semester ATM 3134 Advanced Powerplant Systems* ATM 4032 Hydraulics & Pneumatics COMM 3340 Intercultural Communication (GE) or ECEL 2110 Diversity and Social Justice (GE) MKT 3405 Marketing Policy** or HRM 3920 Human Resource Management General Education	Hrs 3 3 3 3 3 3 3 3 3 3 3 3	Senior Year - Spring Semester ATM 4112 ATM Capstone Experience* ¹⁰ ATM 4134 Advanced Vehicle Systems* Major Option Area 3 Elective# General Education Semester Total	Hrs 3 2 6 3 14

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

15

• *This class is only offered the semester indicated.

Semester Total

- **By selecting ACCT 2101, MGT 3315, and MKT 3405 in the major students can complete a minor in Business Administration.
- ***SOT 3022 Internship (3.0 hrs) should be completed in the summer of the Junior/Senior year.
- #See the 2015 Undergraduate Catalog for a listing of the approved elective courses within Option Area 3 of the major.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

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

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

The first four semesters (approximately 69 credit hours) are to be completed at a Community College or Technical Institute.

Junior Year - Fall Semester AVIA 3710 Professional Ethics in Aviation AVIA 4042 Aviation Maintenance Management or AVIA 4040 Aviation Management ENGL 1030 Composition II (GE) MGT 3325 Business Communications PHYS 1104 Introduction to the Sciences: Physics (GE) Semester Total	Hrs 2 3 3 4 15	Junior Year - Spring Semester AVIA 4090 Aviation Law ECON 1010 Principles of Macroeconomics (GE) MATH 1131 Applied Calculus (GE) MGT 3315 Management of Organizations or INDM 4210 Industrial Management Major Area Elective** Semester Total	Hrs 3 3 3 3 15
Senior Year – Fall Semester AVIA 4500 Aviation Safety Major Area Elective** General Education* Semester Total	Hrs 3 9 15	Senior Year - Spring Semester AVIA 4420 Air Transportation or AVIA 4430 Corporate Aviations AVIA 4999 Integrative Studies Capstone ¹⁰ Major Area Elective** General Education* Semester Total	Hrs 3 6-7 3 15-16

Aviation Maintenance Management 2+2, B.S. Degree – 120 hours (minimum)

- *The number of general education hours remaining for the degree will depend on the amount of general education completed as part
 of the Associates degree earned. UCM requires 42 hours of General Education. This major requires these specific general education
 classes: ECON 1010, ENGL 1030, MATH 1131, and PHYS 1104.
- **Students will choose an area of concentration from the following options: Area 1 Management Focus (12 hours), Area 2 Maintenance Focus (12 hours), or Area 3 Flight Focus (13 hours). See the 2015 Undergraduate Catalog for the required courses in each area.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- The above suggested plan assumes students will choose upper-level (3000/4000) General Education and Major Area Elective courses where available and if required. If some of the courses are transferred from a 2 year institution, they will not count as upper-level hours. Students must earn 30 upper-level hours overall to graduate. Twenty of these hours must be earned at UCM and the major must contain 15 upper-level hours overall (9 of them from UCM).
- A two-year technology related Associate in Aviation Maintenance from an accredited community college or technical institute in this field of study will be accepted for admission into this program.
- The Federal Aviation Administration's Airframe and Powerplant Certificate is required for admission into this program.
- Forty-two hours of the degree transferred should apply toward the major and the remainder towards General Education. The General Education requirements transferred must be equivalent to UCM's requirements.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

Aviation Management Major (Option 1: Flight Operations Management), B.S. Degree (43-01570)

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester AVIA 1020 Aeronautics AVIA 1310 FAA Private Requirement FLYA 1320 Private Flight A or FLYH 1320 Private Helicopter Flight A ENGL 1020 Composition I (GE) FIN 1820 Personal Finance (GE) General Education Managing Information Course (GE)* Semester Total AE 1400 University Foundations**	Hrs 2 3 1 3 2-3 14-15 1	Freshman Year - Spring Semester ACCT 2101 Principles of Financial Accounting COMM 1000 Public Speaking or COMM 1050 Fundamentals of Oral Communication Competency (GE) FLYA 1321 Private Flight B or FLYH 1321 Private Helicopter Flight B ECON 1010 Principles of Macroeconomics (GE) ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) MATH 1131 Applied Calculus (GE) Semester Total	Hrs 3 1 3 3 3 3 3 16
Sophomore Year - Fall Semester FLYA 2313 Instrument Flight A or FLYH 2313 Helicopter Instrument Flight A FLYA 2314 Instrument Flight B or FLYH 2314 Helicopter Instrument Flight B AVIA 3325 FAA Instrument Requirement BLAW 2720 Legal Environment of Business General Education Semester Total	Hrs 1 3 6 14	Sophomore Year - Spring Semester AVIA 2350 Aviation Weather COMM 2620 Introduction to Public Relations PHYS 1104 Introduction to the Sciences: Physics (GE) General Education Semester Total	Hrs 3 4 6 16
Junior Year - Fall Semester AVIA 3010 Aerodynamics MGT 3315 Management of Organizations or INDM 4210 Industrial Management* MKT 3405 Marketing Policy Major Option 1 General Education Semester Total	Hrs 3 3 3 6 15	Junior Year - Spring Semester AVIA 3710 Professional Ethics in Aviation AVIA 3080 Air Traffic Control FIN 2801 Business Statistics HRM 3920 Human Resource Management MGT 3325 Business Communications Free Choice Elective Semester Total	Hrs 2 2 3 3 3 3 16
Senior Year - Fall Semester AVIA 4040 Aviation Management AVIA 4090 Aviation Law AVIA 4420 Air Transportation or AVIA 4430 Corporate Aviation Management AVIA 4500 Aviation Safety INDM 4250 Project Management Semester Total	Hrs 3 3 3 3 3 3 15	Senior Year - Spring Semester AVIA 4380 Flight Operations Management AVIA 4999 Integrative Studies Capstone ¹⁰ FIN 3850 Principles of Finance Free Choice Electives Semester Total	Hrs 3 3 4-5 13-14

Aviation Management Major (Option 1: Flight Operations Management), B.S. Degree – 120 hours

- *Students are encouraged to consider adding a Business Administration minor. If interested in the minor option, students should take MGT 3315 instead of INDM 4210. In addition, CIS 1600 would be needed in the Managing Information section of the general education to complete the minor.
- **AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral.

Aviation Management Major (Option 2: Airport Management), B.S. Degree (43-02570)

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester AVIA 1020 Aeronautics ENGL 1020 Composition I (GE) FIN 1820 Personal Finance (GE) MATH 1131 Applied Calculus (GE) General Education Semester Total AE 1400 University Foundations*	Hrs 2 3 3 3 3 14 1	Freshman Year - Spring Semester ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) CADD 1105 Basic AutoCAD CADD 1110 Fundamentals of Drafting CADD 1170 Introduction to Computer-Aided Drafting COMM 1000 Public Speaking or COMM 1050 Fundamentals of Oral Communication Competency (GE) PHYS 1104 Introduction to the Sciences: Physics (GE) Semester Total	Hrs 3 1 3 2 3 4 16
Sophomore Year - Fall Semester ACCT 2101 Principles of Financial Accounting ATM 3010 Transportation Systems BLAW 2720 Legal Environment of Business General Education Semester Total	Hrs 3 3 5 14	Sophomore Year - Spring Semester COMM 2620 Public Relations FIN 2801 Business Statistics I General Education Semester Total	Hrs 3 9 15
Junior Year - Fall Semester ECON 1010 Principles of Macroeconomics (GE) MGT 3315 Management of Organizations or INDM 4210 Industrial Management** MGT 3325 Business Communications MKT 3405 Marketing Policy General Education Semester Total	Hrs 3 3 3 3 3 1 5	Junior Year - Spring Semester AVIA 3620 Principles of Aviation Accident Causation or SAFE 3000 Principles of Accident Causation & Prevention AVIA 3710 Professional Ethics in Aviation AVIA 3080 Air Traffic Control FIN 3850 Principles of Finance HRM 3920 Human Resource Management Semester Total	Hrs 3 2 2 3 3 1 3
Summer – Between Junior/Senior Year AVIA 3022 Aviation Internship Semester Total	Hrs 3 3		
Senior Year – Fall Semester AVIA 3010 Aerodynamics AVIA 4040 Aviation Management AVIA 4500 Aviation Safety INDM 4250 Project Management Free Choice Elective Semester Total	Hrs 3 3 3 3 3 12	Senior Year - Spring Semester AVIA 4045 Airport Management AVIA 4090 Aviation Law AVIA 4420 Air Transportation or AVIA 4430 Corporate Aviation Management AVIA 4999 Integrative Studies Capstone ¹⁰ Free Choice Elective Semester Total	Hrs 3 3 3 3 3 3 3 15

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

- *AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- **Students are encouraged to consider adding a Business Administration minor. If interested in the minor option, students should take MGT 3315 instead of INDM 4210. In addition, CIS 1600 would be needed in the Managing Information section of general education to complete the minor.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA after they earn 45 credit hours but before earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

UNIVERSITY OF CENTRAL MISSOURI

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

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester CHEM 1131 General Chemistry I (GE)+# ENGL 1020 Composition I (GE) MATH 1151 Calculus & Analytic Geometry I (GE)+ General Education Managing Information Semester Total AE 1400 University Foundations*	Hrs 5 3 5 2-3 15-16 1	Freshman Year - Spring Semester BIOL 1110 Principles of Biology CHEM 1132 General Chemistry II# ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) General Education Semester Total	Hrs 3 5 3 14
Sophomore Year - Fall Semester BIOL 2512 Cell Biology CHEM 3341 Organic Chemistry I# PHYS 1101 (GE) or PHYS 2121 (GE) or PHYS 2123/1123 General Education Semester Total	Hrs 3 4 4-5 3 14-15	Sophomore Year - Spring Semester CHEM 3212 Quantitative Analysis CHEM 3342 Organic Chemistry II# PHYS 1102 or PHYS 2122 or PHYS 2124/1124 General Education Semester Total	Hrs 3 4 4-5 3 14-15
Junior Year - Fall Semester BIOL 3511 Genetics CHEM 4531 Physical Chemistry: Thermodynamics & Kinetics** General Education Semester Total	Hrs 4 6 14	Junior Year - Spring Semester BIOL 4514 Molecular Biology BIOL 4515 Molecular Technology Laboratory CHEM 3920 Communication Skills in Chemistry** ¹⁰ BIOL/CHEM Major Electives## General Education Semester Total	Hrs 3 2 2-4 6 15-17
Senior Year - Fall Semester CHEM 3421 Intermediate Biochemistry# BIOL/CHEM Major Electives## General Education Free Choice Electives*** Semester Total	Hrs 3 2-4 3 7 15-17	Senior Year - Spring Semester CHEM 4421 Advanced Biochemistry CHEM 4431 Biochemistry Laboratory Free Choice Electives*** Semester Total	Hrs 3 2 10-12 15-17

Biochemistry Major, B.S. Degree - 120 hours

- +Enrollment in CHEM 1131 and MATH 1151 is dependent upon one or more of the following: math placement level, high school math courses completed, ACT/SAT standardized test scores, and/or a possible mathematics placement examination.
- *AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- **Upper level chemistry courses offered variably check department for actual offerings.

• ***BIOL 1111/1112 should be taken as free choice electives if students are pre-medical, pre-dental, or pre-pharmacy students. The number of free choice electives required will depend on the PHYS choice made in the major. This plan assumes that the PHYS chosen will overlap with general education.

• #A grade of C or better is required to enroll in future major coursework. See the Undergraduate Catalog for more details.

• ##Six hours of major electives are required. Three of the six hours must be CHEM. See the 2015 Undergraduate Catalog for a listing of appropriate Major Electives.

- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

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

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester	Hrs	Freshman Year - Spring Semester	Hrs
BIOL 1000 The Discipline of Biology and Earth Science	1	BIOL 1111 Plant Biology	4
BIOL 1110 Principles of Biology	3	ENGL 1020 Composition I (GE)	3
General Education	11	General Education	9
Semester Total	15	Semester Total	16
Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
BIOL 1112 Animal Biology	4	BIOL 2020 General Ecology	3
CHEM 1131 General Chemistry I (GE)*	5	CHEM 1132 General Chemistry II	5

ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) General Education Semester Total	3 3 15	General Education Semester Total	6 14
Junior Year - Fall Semester BIOL 3511 Genetics BIOL 3712 Field Natural History General Education Free Choice Electives Semester Total	Hrs 4 4 3 5 16	Junior Year - Spring Semester BIOL 2512 Cell Biology BIOL 4013 Introductory Experimental Design & Analysis BIOL 4102 Evolution Free Choice Electives Semester Total	Hrs 3 3 6 15
Senior Year - Fall Semester BIOL 3431 Animal Physiology (fall only)** Free Choice Electives Semester Total	Hrs 0-4* 10-14 14	Senior Year - Spring Semester BIOL 3611 Microbiology BIOL 4001 Ecology Senior Seminar or BIOL 4002 Life Science Senior Seminar BIOL 4411 Plant Physiology (spring only)** BIOL 4222 The Biological Perspective ¹⁰ Free Choice Electives Semester Total	Hrs 4 1 0-4* 3 -7 15

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

- *A grade of C or better is required to enroll in CHEM 1132.
- **Students are required to take a physiology course, either BIOL 3431 or BIOL 4411. Animal Physiology BIOL 3431 is only offered in the fall semesters and Plant Physiology BIOL 4411 is only offered in the spring semesters. Students should consult with their faculty mentor about which course to take.
- 10This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- This major does not build in the minimum number (30) of upper-level credit hours required for graduation. Be sure to include upper-level choices (3000/4000) in your general education and/or free choice electives.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA after they earn 45 credit hours but before earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

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

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester BIOL 1000 The Discipline of Biology and Earth Science BIOL 1110 Principles of Biology General Education Semester Total	Hrs 1 3 11 15	Freshman Year - Spring Semester BIOL 1111 Plant Biology CHEM 1131 General Chemistry I (GE)# ENGL 1020 Composition I (GE) General Education Semester Total	Hrs 4 5 3 15
Sophomore Year - Fall Semester BIQL 1112 Animal Biology BIQL 3711 Plant Identification ENGL 1030 Composition II or CTE 3060 Tech. Writing* (G General Education Semester Total	Hrs 4 4 GE)3 3 14	Sophomore Year - Spring Semester BIOL 2020 General Ecology BIOL Major Area Electives** CHEM 1132 General Chemistry II General Education Semester Total	Hrs 3 4 5 3 15
Junior Year - Fall Semester BIOL 4709 Plant Ecology General Education Semester Total	Hrs 4 12 16	Junior Year - Spring Semester BIOL 4013 Introductory Experimental Design & Analysis BIOL 4711 Animal Ecology Free Choice Electives Semester Total	Hrs 3 4 9 16

Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
BIOL Major Area Electives**	4	BIOL 4001 Ecology Senior Seminar	1
Major Area Electives*	3	BIOL 4102 Evolution	3
Free Choice Elective	7	BIOL 4222 The Biological Perspective ¹⁰	3
Semester Total	14	Free Choice Electives	8
		Semester Total	15

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

- #A grade of C or better is required to enroll in CHEM 1132.
- *See the 2015 Undergraduate Catalog for list of appropriate major area electives (non-BIOL choices). If CTE 3060 is chosen in general education, it will also fulfill the three hours of non-BIOL major electives. This choice would increase Free Choice Electives by 3 hours.
- **See the 2015 Undergraduate Catalog for list of appropriate Biology major area electives (BIOL choices).
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- This major does not build in the minimum number (30) of upper-level credit hours required for graduation. Be sure to include upperlevel choices (3000/4000) in your major electives, general education, and/or free choice electives.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

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

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester BIOL 1000 The Discipline of Biology and Earth Science BIOL 1110 Principles of Biology General Education Semester Total	Hrs 1 3 12 16	Freshman Year - Spring Semester BIOL 1111 Plant Biology BIOL 1112 Animal Biology ENGL 1020 Composition I (GE) General Education Semester Total	Hrs 4 3 3 14
Sophomore Year - Fall Semester BIOL 2020 General Ecology ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) Physical Science Major Area Elective* General Education Semester Total	Hrs 3 4 6 16	Sophomore Year - Spring Semester Physical Science Major Area Elective* Wildlife Management & Conservation Major Area Elective* General Education Semester Total	Hrs 5 3 6 14
Junior Year - Fall Semester BIOL 3711 Plant Identification Wildlife Management & Conservation Major Area Elective* General Education or Free Choice Electives** Semester Total	Hrs 4 3 9 16	Junior Year - Spring Semester BIOL 4013 Introductory Experimental Design & Analysis or ACST 1300 Basic Statistics (GE)** BIOL 4102 Evolution or BIOL 2510 Basic Genetics (GE)**+ or BIOL 3511 Genetics and CHEM 1131 General Chemistry I (GE) Free Choice Electives Semester Total	Hrs 3 3-9 3-9 15
Senior Year - Fall Semester Wildlife & Habitat Biology Major Area Elective* Free Choice Elective Semester Total	Hrs 4 11 15	Senior Year - Spring Semester BIOL 4001 Ecology Senior Seminar BIOL 4222 The Biological Perspective ¹⁰ Wildlife & Habitat Biology Major Area Elective* Free Choice Electives Semester Total	Hrs 1 3 4 6 14

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

- *See the 2015 Undergraduate Catalog for lists of appropriate major area electives in the following three categories: physical sciences electives (9 hours), wildlife management and conservation electives (6 hours), and wildlife and habitat biology electives (6 hours). If chosen, CHEM 1131, EASC 1004, and/or PHYS 1101 will also count in general education and additional hours of free choice electives will be needed to reach 120 hours for graduation.
- **If any of the following classes are chosen in the major, they will also count in general education and additional hours of free choice electives will be needed to reach 120 hours for graduation: ACST 1300, BIOL 2510, CHEM 1131, EASC 1004 or PHYS 1101. The plan above assumes no overlap between major and general education classes.
- +Instead of BIOL 4102 or 2510** (3 hour options) students may also opt to take a 9 hour option consisting of BIOL 3511 Genetics (4 hours) with CHEM 1131** (5 hours). If this is chosen CHEM 1131** will fulfill 4 hours of general education. The number of free choice electives will vary depending on choices made.
- 10This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- This major does not build in the minimum number (30) of upper-level credit hours required for graduation. Be sure to include upperlevel choices (3000/4000) in your major electives, general education, and/or free choice electives.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA after they earn 45 credit hours but before earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

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

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester BIOL 1000 The Discipline of Biology and Earth Science BIOL 1110 Principles of Biology General Education Semester Total	Hrs 1 3 11 15	Freshman Year - Spring Semester BIOL 1111 Plant Biology ENGL 1020 Composition I (GE) General Education Semester Total	Hrs 4 3 9 16
Sophomore Year - Fall Semester BIOL 2020 General Ecology BIOL 3711 Plant Identification CHEM 1131 General Chemistry I (GE)# ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) Semester Total	Hrs 3 4 5 3 15	Sophomore Year - Spring Semester BIOL 2512 Cell Biology CHEM 1132 General Chemistry II General Education Semester Total	Hrs 3 5 6 14
Junior Year - Fall Semester BIOL 3511 Genetics PHYS 1101 College Physics I (GE) General Education Free Choice Electives** Semester Total	Hrs 4 3 3 14	Junior Year - Spring Semester BIOL 4102 Evolution Major Area Electives* Free Choice Electives** Semester Total	Hrs 3 6-8 6 15-17
Senior Year - Fall Semester BIOL 4709 Plant Ecology Free Choice Electives*** Semester Total	Hrs 4 10-12 14-16	Senior Year - Spring Semester BIOL 4001 Ecology Senior Seminar or BIOL 4002 Life Science Senior Seminar BIOL 4411 Plant Physiology BIOL 4222 The Biological Perspective ¹⁰ Free Choice Electives** Semester Total	Hrs 1 4 3 7 15

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

- #A grade of C or higher is required to enroll in CHEM 1132.
- *See the 2015 Undergraduate Catalog for list of appropriate major area electives for the Plant Biology Emphasis.
- **The number of free choice electives required will depend on selections made in the major and general education.
- 10This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- This major does not build in the minimum number (30) of upper-level credit hours required for graduation. Be sure to include upper-level choices (3000/4000) in your major electives, general education, and/or free choice electives.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA after they earn 45 credit hours but before earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

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

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester BIOL 1000 The Discipline of Biology and Earth Science BIOL 1110 Principles of Biology General Education Semester Total	Hrs 1 3 11 15	Freshman Year - Spring Semester BIOL 1112 Animal Biology CHEM 1131 General Chemistry I (GE)# ENGL 1020 Composition I (GE) General Education Semester Total	Hrs 4 5 3 15
Sophomore Year - Fall Semester BIOL 2020 General Ecology CHEM 1132 General Chemistry II ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) General Education Semester Total	Hrs 3 5 3 3 14	Sophomore Year - Spring Semester BIOL 2512 Cell Biology Major Area Elective* General Education Semester Total	Hrs 3 2-4 9 14-16
Junior Year - Fall Semester BIOL 3511 Genetics PHYS 1101 College Physics I (GE); Major Area Electives* General Education Semester Total	Hrs 4 2-4 3 13-15	Junior Year - Spring Semester BIOL 3211 Comparative Anatomy BIOL 4102 Evolution Free Choice Electives** Semester Total	Hrs 4 9 16
Senior Year - Fall Semester BIOL 3431 Animal Physiology Free Choice Electives** Semester Total	Hrs 4 12 16	 Senior Year - Spring Semester BIOL 4001 Ecology Senior Seminar or BIOL 4002 Life Science Senior Seminar BIOL 4711 Animal Ecology BIOL 4222 The Biological Perspective¹⁰ Free Choice Electives** Semester Total 	Hrs 1 4 3 5-7 13-15

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

- #A grade of C or better is required to enroll in CHEM 1132.
- *See the 2015 Undergraduate Catalog for list of appropriate major area electives.
- **The number of free choice electives required will depend on selections made in the major and general education.
- 10This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- This major does not build in the minimum number (30) of upper-level credit hours required for graduation. Be sure to include upper-level choices (3000/4000) in your major electives, general education, and/or free choice electives.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA after they earn 45 credit hours but before earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

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

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester BIOL 1000 The Discipline of Biology and Earth Science BIOL 1110 Principles of Biology CHEM 1131 General Chemistry I (GE)*# General Education Semester Total	Hrs 1 3 5 6 15	Freshman Year - Spring Semester BIOL 1111 Plant Biology CHEM 1132 General Chemistry II ENGL 1020 Composition I (GE) General Education Semester Total	Hrs 4 5 3 3 15
Sophomore Year - Fall Semester BIOL 1112 Animal Biology BIOL 2512 Cell Biology ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) General Education Semester Total	Hrs 4 3 6 16	Sophomore Year - Spring Semester BIOL 3611 Microbiology General Education Semester Total	Hrs 4 11 15
Junior Year - Fall Semester BIOL 3511 Genetics General Education Free Choice Electives** Semester Total	Hrs 4 6 5 15	Junior Year - Spring Semester BIOL 4514 Molecular Biology BIOL 4515 Molecular Technology Lab Major Area Electives*** Free Choice Electives** Semester Total	Hrs 3 2 4 6 15
Senior Year - Fall Semester BIOL 3431 Animal Physiology (fall only)## Major Area Electives*** Free Choice Electives** Semester Total	Hrs 0-4# 3-4 7-12 15	Senior Year - Spring Semester BIOL 4002 Life Science Senior Seminar BIOL 4411 Plant Physiology (spring only)## BIOL 4222 The Biological Perspective ¹⁰ Free Choice Electives** Semester Total	Hrs 1 0-4# 3 6-10 14

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

- *Placement in CHEM 1131 requires an ACT math score of 21 or higher or an SAT math score of 550 or higher. If this score is
 not met, take MATH 1111 in the first semester and CHEM 1131 in the second semester. A grade of C or higher in MATH 1111 is
 required for enrollment in CHEM 1131.
- **The number of free choice electives required will depend on selections made in the major and general education.
- ***See the 2015 Undergraduate Catalog for list of appropriate major area electives. If PHYS 1101 is chosen, this class will count in both the major and in general education. If chosen, additional hours of free choice electives will be needed to reach 120 hours for graduation.
- #A grade of C or better is required to enroll in CHEM 1132.
- ##Students are required to take a physiology course, either BIOL 3431 or BIOL 4411. Animal Physiology BIOL 3431 is only offered in the fall semesters and Plant Physiology BIOL 4411 is only offered in the spring semesters. Students should consult with their faculty mentor about which course to take.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- This major does not build in the minimum number (30) of upper-level credit hours required for graduation. Be sure to include upperlevel choices (3000/4000) in your major electives, general education, and/or free choice electives.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA after they earn 45 credit hours but before earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

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

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester BIOL 1000 The Discipline of Biology and Earth Science BIOL 1110 Principles of Biology CHEM 1131 General Chemistry I (GE)*# General Education Semester Total	Hrs 1 3 5 6 15	Freshman Year - Spring Semester BIOL 1112 Animal Biology CHEM 1132 General Chemistry II# ENGL 1020 Composition I (GE) General Education Semester Total	Hrs 4 5 3 3 15
Sophomore Year - Fall Semester BIOL 2512 Cell Biology BIOL 3511 Genetics CHEM 3341 Organic Chemistry I# ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) Semester Total	Hrs 3 4 4 3 14	Sophomore Year - Spring Semester CHEM 3342 Organic Chemistry II PHYS 1101 College Physics I (GE) General Education Semester Total	Hrs 4 8 16
Junior Year - Fall Semester BIOL 3611 Microbiology General Education Free Choice Electives Semester Total	Hrs 4 6 5 15	Junior Year - Spring Semester BIOL 3211 Comparative Anatomy or BIOL 3401 Human Anatomy Major Area Electives** General Education Free Choice Electives Semester Total	Hrs 3-4 4 6 2 15-16
Senior Year - Fall Semester BIOL 3431 Animal Physiology or BIOL 3402 Human Physiology Major Area Electives Free Choice Electives Semester Total	Hrs 4-5 4 7 15-16	Senior Year - Spring Semester BIOL 4002 Life Science Senior Seminar BIOL 4222 The Biological Perspective ¹⁰ Free Choice Electives Semester Total	Hrs 1 3 10 14

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

- *Enrollment in CHEM 1131 requires an ACT math score of 21 (or SAT math score of 550) or a grade of C or higher in MATH 1111.
- #A grade of C or better is required to enroll in future major coursework. See the Undergraduate Catalog for more information.
- **Eight hours of major electives are required. See the 2015 Undergraduate Catalog for list of appropriate major area electives. CHEM 3421 or PHYS 1102 are strongly recommended for admission into professional programs.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- It is highly recommended that students meet with their departmental academic advisor each semester.
- Students seeking professional school admission should complete an average of 15 or more credit hours per semester.
- This major does not build in the minimum number (30) of upper-level credit hours required for graduation. Be sure to include upperlevel choices (3000/4000) in your major electives, general education, and/or free choice electives.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

Biology Major (Area 7: Conservation Enforcement), B.S. Degree (43-07380)

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester BIOL 1000 The Discipline of Biology and Earth Science BIOL 1110 Principles of Biology ENGL 1020 Composition I (GE) General Education Semester Total	Hrs 1 3 9 16	Freshman Year - Spring Semester BIOL 1111 Plant Biology CJ 1000 Introduction to Criminal Justice (GE) General Education Semester Total	Hrs 4 3 9 16
Sophomore Year - Fall Semester BIOL 1112 Animal Biology CTE 3060 Technical Writing (GE) General Education Semester Total	Hrs 4 3 9 16	Sophomore Year - Spring Semester BIOL 2020 General Ecology Major Electives* General Education Free Choice Electives** Semester Total	Hrs 3 6 3 15
Junior Year - Fall Semester BIOL 3711 Plant Identification COMM 2620 Public Relations CJ 2300 Criminal Law and Procedure Free Choice Electives** Semester Total	Hrs 4 3 6 16	Junior Year - Spring Semester BIOL 4919 Wildlife Policy and Law Free Choice Electives** Semester Total	Hrs 3 12 15
Senior Year - Fall Semester CJ 4302 Criminal Evidence Major Electives* Free Choice Electives** Semester Total	Hrs 3 3-4 7-8 14	Senior Year - Spring Semester BIOL 4001 Ecology Senior Seminar BIOL 4222 The Biological Perspective ¹⁰ Major Electives* Free Choice Electives** Semester Total	Hrs 1 3 4 4 12

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

- *See catalog for choices to fulfill this area. If BIOL 2510 is chosen, this course will count in both the major and in general education. If chosen, three additional hours of free choice electives will be needed. This plan assumes BIOL 2510 is not chosen.
- **The number of free choice electives required will depend on selections made in the major and general education.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- This major does not build in the minimum number (30) of upper-level credit hours required for graduation. Be sure to include upper-level choices (3000/4000) in your major electives, general education, and/or free choice electives.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA after they earn 45 credit hours but before earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

Biology Major (Area 1 Standard Biology Certificate), B.S. in Ed. Degree (41-487)

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester BIOL 1000 The Discipline of Biology and Earth Science BIOL 1111 Plant Biology EASC 1004 Introduction to Geology (GE) ENGL 1020 Composition I (GE) MATH 1111, 1131, 1150, or 1151 (GE) Semester Total	Hrs 1 4 3 3-5 15-17	Freshman Year - Spring Semester BIOL 1112 Animal Biology CHEM 1131 Chemistry I (GE) ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) POLS 1510 American Government (GE) General Education Managing Information Semester Total	Hrs 4 5 3 2 17
Sophomore Year - Fall Semester BIOL 2512 Cell Biology BIOL 3511 Genetics (fall only) EDFL 2100 Introduction to the Teaching Profession FLDX 2150 Introductory Field Experience EDFL 2240 Educational Psychology (GE) HIST 1350 or 1351 History of the United States (GE) Semester Total	Hrs 3 4 3 1 3 3 17	Sophomore Year - Spring Semester BIOL 2020 General Ecology EDSP 2100 Education of the Exceptional Child PHYS 1101 Physics I (4) or PHYS 1104 Introduction to Sciences: Physics (4) STCH 3020 Science and Engineering Practices General Education Semester Total (Successfully complete MoGEA exam by end of this semester	Hrs 3 3 4 3 16 r)
Junior Year - Fall Semester BIOL, CHEM, EASC, or PHYS 3XXX-4XXX elective BIOL 3611 Microbiology or BIOL 3431 Animal Physiology (fall only)* General Education Semester Total	Hrs 3 4 9 16	Junior Year - Spring Semester BIOL 3611 Microbiology or BIOL 4411 Plant Physiology (spring only)* EDFL 4210 Introduction to Content Area Literacy EDFL 4212 Literacy in the Disciplines I EDFL 4973 Classroom Management in Content Areas EDFL 4974 Content Specific Assessment FLDX 3000 Field Experience in the Content Area** PSY 4230 Psychology of Adolescence STCH 4050 Science Teaching Methods** Semester Total	Hrs 4 2 1 1 1 3 3 17
 Senior Year - Fall Semester BIOL 3712 Field Natural History EDFL 2250 Introduction to English Language Learners and Culturally Responsive Pedagogy EDFL 4970 Secondary Teaching & Behavior Management EDFL 4972 Literacy in the Disciplines II FLDX 4970 Field Experience II in the Content Area General Education Semester Total (All non-student teaching coursework and tests must be successfully completed by the end of this semester for 	Hrs 4 2 2 1 3 14	Senior Year - Spring Semester*** FLDX 4468 Student Teaching Secondary II ¹⁰ FLDX 4595 Student Teaching Secondary I STCH 4080 Teaching Secondary Science Semester Total	Hrs 4 5 3 12

Biology Major (Area 1 Standard Biology Certificate), B.S. in Ed. Degree - 124 hours

- *Students are required to take a physiology course, either animal or plant. Animal physiology is a Fall only class and Plant
 physiology is a Spring only class. Students should consult with their faculty advisor about which course to take. In the semester where
 one of these courses is not chosen, the student must take BIOL 3611 Microbiology.
- **These courses must be taken concurrently.

enrollment in student teaching.)

- ***The courses listed for this semester constitute the professional education (student teaching) block. The student should not take any other courses during this semester.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- The Missouri General Education Assessment (MoGEA) is an exam required of all Teacher Education students. Students must pass all areas of the MoGEA for admission to the Teacher Education Program. Students should take and successfully complete the MoGEA before completion of their sophomore year (60 earned hours). See your academic advisor to discuss the classes needed to prepare for the exam.
- Teacher Education candidates must take the appropriate Missouri Content Assessment (MoCA) for their certification area before they can student teach, and must pass it in order to be recommended for certification. Information and registration is available on the MEGA website: http://www.mo.nesinc.com/.
- See www.ucmo.edu/cert for statement and information (including application) on admission to teacher education. Full admission
 is required before enrollment in professional education classes and student teaching. The application for student teaching is due
 approximately one year in advance.

Biology Major (Area 2 Biology-Unified Science Certificate), B.S. in Ed. Degree (41-487)

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester BIOL 1000 The Discipline of Biology and Earth Science BIOL 1111 Plant Biology EASC 1004 Introduction to Geology (GE) ENGL 1020 Composition I (GE) MATH 1111, 1131, 1150, or 1151 (GE) Semester Total	Hrs 1 4 3 3-5 15-17	Freshman Year - Spring Semester BIOL 1112 Animal Biology CHEM 1131 General Chemistry I (GE) ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) POLS 1510 American Government (GE) General Education Managing Information Semester Total	Hrs 4 5 3 2 17
Sophomore Year - Fall Semester BIOL 2512 Cell Biology BIOL 3511 Genetics (fall only) EDFL 2100 Introduction to the Teaching Profession FLDX 2150 Introductory Field Experience EDFL 2240 Educational Psychology (GE) HIST 1350 or 1351 History of the United States (GE) Semester Total	Hrs 3 4 3 1 3 3 17	Sophomore Year - Spring Semester BIOL 2020 General Ecology CHEM 1131 General Chemistry II EDSP 2100 Education of the Exceptional Child PHYS 1101 College Physics I STCH 3020 Science and Engineering Practices Semester Total (Successfully complete MoGEA exam by end of this semester	Hrs 3 5 3 4 3 18
Junior Year - Fall Semester BIOL 3611 Microbiology or BIOL 3431 Animal Physiology (fall only)* EASC 1114 or GEOG 1114 Weather & Climate PHYS 1102 College Physics II General Education Semester Total	Hrs 4 4 6 18	Junior Year - Spring Semester BIOL 3611 Microbiology or BIOL 4411 Plant Physiology (spring only)* EDFL 4210 Introduction to Content Area Literacy EDFL 4212 Literacy in the Disciplines I EDFL 4973 Classroom Management in Content Areas EDFL 4974 Content Specific Assessment FLDX 3000 Field Experience in the Content Area** PSY 4230 Psychology of Adolescence STCH 4050 Science Teaching Methods** Semester Total	Hrs 4 2 1 1 1 3 3 17
Junior Year - Summer Semester General Education Semester Total	Hrs 6 6		
 Senior Year - Fall Semester BIOL 3712 Field Natural History EDFL 2250 Introduction to English Language Learners and Culturally Responsive Pedagogy EDFL 4970 Secondary Teaching & Behavior Management EDFL 4972 Literacy in the Disciplines II FLDX 4970 Field Experience II in the Content Area General Education Semester Total 	Hrs 4 2 2 1 3 14	 Senior Year - Spring Semester*** FLDX 4468 Student Teaching Secondary II¹⁰ FLDX 4595 Student Teaching Secondary I STCH 4080 Teaching Secondary Science Semester Total (All non-student teaching coursework and tests must be successfully completed by the start of this semester for enrollment in student teaching.) 	Hrs 4 5 3 12

Biology Major (Area 2 Biology-Unified Science Certificate), B.S. in Ed. Degree - 134 hours

 *Students are required to take a physiology course, either animal or plant. Animal physiology is a Fall only class and Plant physiology is a Spring only class. Students should consult with their faculty advisor about which course to take. In the semester where one of these courses is not chosen, the student must take BIOL 3611 Microbiology.

• **These courses must be taken concurrently.

- ***The courses listed for this semester constitute the professional education (student teaching) block. The student should not take any other courses during this semester.
- 10This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- The Missouri General Education Assessment (MoGEA) is an exam required of all Teacher Education students. Students must pass all areas of the MoGEA for admission to the Teacher Education Program. Students should take and successfully complete the MoGEA before completion of their sophomore year (60 earned hours). See your academic advisor to discuss the classes needed to prepare for the exam.
- Teacher Education candidates must take the appropriate Missouri Content Assessment (MoCA) for their certification area before they can student teach, and must pass it in order to be recommended for certification. Information and registration is available on the MEGA website: http://www.mo.nesinc.com/.
- See www.ucmo.edu/cert for statement and information (including application) on admission to teacher education. Full admission is required before enrollment in professional education classes and student teaching. The application for student teaching is due approximately one year in advance.

Career and Tech. Teacher Education Major, B.S. in Ed. Degree - Area 1 Business Teacher Education (41-01564)

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester BTE 1210 Essentials of Managing Information (GE) ENGL 1020 Composition I (GE) General Education Math General Education Science with laboratory General Education (COMM 1000 or 1050 recommended to meet MGT 3325 prerequisite) Semester Total	Hrs 2 3 4 3 15	Freshman Year - Spring Semester ECON 1010 Principles of Macroeconomics (GE) ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) HIST 1350 or 1351 History of the United States (GE) POLS 1510 American Government (GE) General Education Semester Total	Hrs 3 3 3 3 3 15
Sophomore Year - Fall Semester ACCT 2100 Survey of Accounting EDFL 2100 Introduction to the Teaching Profession FLDX 2150 Introductory Field Experience EDFL 2240 Educational Psychology EDSP 2100 Education of Exceptional Child General Education Semester Total	Hrs 3 1 3 3 3 3 16	Sophomore Year - Spring Semester BLAW 2720 Legal Environment Business CTE 3110 Consumer Finance & Economics General Education Semester Total (Successfully complete MoGEA exam by end of this semester)	Hrs 3 9 15
Junior Year - Fall Semester ACCT 2101 Principles of Financial Accounting MGT 3315 Management of Organizations MGT 3325 Business Communications MKT 3400 Principles of Marketing PSY 4230 Psychology of Adolescence Computer/Emerging Technology Major Elective* Semester Total	Hrs 3 3 3 3 2-3 17-18	Junior Year - Spring Semester BTE 4241 Coordination of Cooperative Education Programs CTE 4145 Curriculum Construction in CTE EDFL 2250 Introduction to English Language Learners and Culturally Responsive Pedagogy# EDFL 4210 Introduction to Content Area Literacy EDFL 4212 Literacy in the Disciplines I FLDX 3000 Field Experience in the Content Area# Computer/Emerging Technology Major Electives* Semester Total Apply for Student Teaching	Hrs 3 2 2 2 1 2-3 15-16
Senior Year - Fall Semester BTE 4210 Methods of Teaching Business Edu. (fall/sum. only) CTE 4280 Implementing Business & Marketing Educ. Prog** CTE 4972 CTE Principles & Content Reading CTE 4973 CTE Classroom and Lab Management Techniques EDFL 4970 Behavioral Management FLDX 4970 Field Experience II in the Content Area Computer/Emerging Technology Major Electives* Free Choice Elective Semester Total	Hrs 3 2 1 2 1 0-2 1 13-15	Senior Year - Spring Semester*** CTE 4974 Educational Evaluation & Strategies FLDX 4468 Student Teaching Secondary II ¹⁰ FLDX 4595 Student Teaching Secondary I Semester Total (All non-student teaching coursework and tests must be successfully completed before this semester for enrollment in student teaching.)	Hrs 2 5 5 12

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

- *This major area requires 6 credit hours of Computer/Emerging Technology major electives. See program coordinator for course suggestions.
- #These courses must be taken concurrently.
- **CTE 4280 is offered summer only through UCM. During the fall semester it is offered cooperatively through a consortium agreement with SEMO and through MSSU during the spring semester.
- *** The courses listed for this semester constitute the professional education (student teaching) block. The student should not take any other courses during this semester.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- The Missouri General Education Assessment (MoGEA) is an exam required of all Teacher Education students. Students must pass all areas of the MoGEA for admission to the Teacher Education Program. Students should take and successfully complete the MoGEA before completion of their sophomore year (60 earned hours). See your academic advisor to discuss the classes needed to prepare for the exam.
- Teacher Education candidates must take the appropriate Missouri Content Assessment (MoCA) for their certification area before they can student teach, and must pass it in order to be recommended for certification. Information and registration is available on the MEGA website: http://www.mo.nesinc.com/.
- See www.ucmo.edu/cert for statement and information (including application) on admission to teacher education. Full admission is required before enrollment in professional education classes and student teaching. The application for student teaching is due approximately one year in advance.

Career & Tech. Teacher Edu. Major, B.S. in Ed. Degree - Area 2 Family & Consumer Sci. (41-02564)

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester CFD 1010 Individual & Family Relationships (GE) CFD 1220 Child Development ENGL 1020 Composition I (GE) HM 1800 Introduction to Hospitality (fall only) General Education Math Semester Total AE 1400 University Foundations*	Hrs 3 3 3 3 3 3 15 1	Freshman Year - Spring Semester CHEM 1104 Introduction to the Sciences: Chemistry (GE) ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) POLS 1510 American Government (GE) General Education Semester Total	Hrs 4 3 6 16
Sophomore Year - Fall Semester FAME 1450 Fund. of Apparel Design and Construction FOOD 2320 Sanitation & Safety EDFL 2100 Introduction to the Teaching Profession FLDX 2150 Introductory Field Experience EDFL 2240 Educational Psychology EDSP 2100 Education of the Exceptional Child General Education Managing Information Semester Total	Hrs 3 1 3 1 3 2 16	Sophomore Year - Spring Semester FAME 2442 Textile Science FCSE 2000 FCS Student Organizations (spring only) FOOD 2322 Food Preparation HIST 1350 or 1351 History of the United States (GE) General Education Semester Total (Successfully complete MoGEA exam by end of this semester)	Hrs 3 1 3 3 6 16
Junior Year - Fall Semester CFD 3230 Family Systems & Lifespan Development (fall only) CFD 4220 Sexuality Across the Lifespan or HED 1100 Personal Health (GE) or HED 4320 Teaching Sexuality Ed in the School (fall odd years only) CTE 3110 Consumer Finance & Economics D&N 3340 Nutrition EDFL 4210 Introduction to Content Area Literacy EDFL 4212 Literacy in the Disciplines I FCSE 3710 Found. of Family Consumer Sci. Educ. (fall only)# Semester Total	3 3 2 2	Junior Year - Spring Semester CFD 3240 Parent-Child Interaction (spring only) CTE 4145 Curriculum Construction for CTE EDFL 2250 Introduction to English Language Learners and Culturally Responsive Pedagogy## FCSE 3120 Family Resource Management (spring only) FLDX 3000 Field Experience in the Content Area## PSY 4230 Psychology of Adolescence General Education (needed if HED 1100 is not chosen) Semester Total	Hrs 3 2 3 1 3 0-3 15-18
Senior Year - Fall Semester CTE 4972 CTE Principles & Content Reading (fall only) CTE 4973 CTE Classroom and Lab Management Techniques EDFL 4970 Secondary Teaching & Behavioral Management FLDX 4970 Field Experience II in the Content Area FCSE 4740 Methods of Teaching Fam. Cons. Sci. (fall only) FAME 4410 Materials for Interior Furnishings General Education Semester Total	Hrs 2 1 2 1 3 3 3 15	Senior Year - Spring Semester** CTE 4974 Educational Evaluation & Strategies FLDX 4468 Student Teaching Secondary II ¹⁰ FLDX 4495 Student Teaching Elementary I Semester Total (All non-student teaching coursework and tests must be successfully completed by the start of this semester for enrollment in student teaching.)	Hrs 2 5 5 12

Career and Technology Teacher Education Major, B.S. in Ed. Degree Area 2 Family and Consumer Sciences Teacher Education (Birth-12 Certification) 124-127 hrs

- *AE 1400 is a free choice elective and is highly recommended for academic success; however, this major does not require any free choice electives.
- ** The courses listed for this semester constitute the professional education (student teaching) block. The student should not take any other courses during this semester.
- #A grade of C or better is required in this course for enrollment into FCSE 4740.
- ##These courses must be taken concurrently.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- The Missouri General Education Assessment (MoGEA) is an exam required of all Teacher Education students. Students must pass all areas of the MoGEA for admission to the Teacher Education Program. Students should take and successfully complete the MoGEA before completion of their sophomore year (60 earned hours). See your academic advisor to discuss the classes needed to prepare for the exam.
- Teacher Education candidates must take the appropriate Missouri Content Assessment (MoCA) for their certification area before they can student teach, and must pass it in order to be recommended for certification. Information and registration is available on the MEGA website: http://www.mo.nesinc.com/.
- See www.ucmo.edu/cert for statement and information (including application) on admission to teacher education. Full admission
 is required before enrollment in professional education classes and student teaching. The application for student teaching is due
 approximately one year in advance.

Career & Technology Teacher Education Major, B.S. in Ed. Degree - Area 3 Engineering & Tech. Teacher Edu. (41-03564)

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester CTE 1300 Introduction to Engineering Design (fall only) ENGL 1020 Composition I (GE) ENGT 1120 Welding CADD 1105 Basic AutoCAD* MATH 1111 College Algebra or MATH 1620 Contemp. Math POLS 1510 American Government (GE) Semester Total	Hrs 3 3 1 h 3 3 1 b 3 3 16	Freshman Year - Spring Semester CADD 1170 Introduction to Computer-Aided Drafting HIST 1350 or 1351 History of the United States (GE) PHYS 1104 Introduction to the Sciences: Physics (Lab) (GE) General Education Semester Total	Hrs 2 3 4 6 15
Sophomore Year - Fall Semester CTE 3060 Technical Writing (GE) EDFL 2100 Introduction to the Teaching Profession FLDX 2150 Introductory Field Experience EDFL 2240 Educational Psychology (GE) EDSP 2100 Education of the Exceptional Child ENGT 1510 Introduction to Manufacturing Processes Semester Total	Hrs 3 1 3 3 3 3 16	Sophomore Year - Spring Semester CMGT 1300 Introduction to Construction Management CTE 2000 Technology & Society (GE) ET 1020 General Electronics General Education Semester Total (Successfully complete MoGEA exam by end of this semester)	Hrs 3 3 6 15
Junior Year - Fall Semester ATM 1010 Contemporary Power Systems (fall only) CTE 3116 Creative Thinking for a Better World (GE) CTE 4145 Curriculum Construction CTE Departmentally Approved Science & Tech. Major Electives** General Education Semester Total	Hrs 3 3 3 3 3 15	Junior Year - Spring Semester EDFL 2250 Introduction to English Language Learners and Culturally Responsive Pedagogy# EDFL 4210 Introduction to Content Area Literacy EDFL 4212 Literacy in the Disciplines I FLDX 3000 Field Experience in the Content Area# SOT 4570 Computer Graphics Departmentally Approved Science & Tech. Major Electives** Semester Total	Hrs 2 2 1 3 6 16
Senior Year - Fall Semester CTE 4160 Methods of Teaching CTE CTE 4972 CTE Principles & Content Reading (fall only) CTE 4973 CTE Classroom and Lab Management Techniques EDFL 4970 Secondary Teaching & Behavioral Management FLDX 4970 Field Experience II in the Content Area PSY 4230 Psychology of Adolescence Departmentally Approved Science & Tech. Major Electives**	Hrs 3 2 1 2 1 3 3	Senior Year - Spring Semester*** CTE 4974 Educational Evaluation & Strategies FLDX 4468 Student Teaching Secondary II ¹⁰ FLDX 4595 Student Teaching Secondary I Semester Total (All non-student teaching coursework and tests must be successfully completed by the start of this semester for enrollment in student teaching.)	Hrs 2 5 5 12

Career and Technology Teacher Education Major, B.S. in Ed. Degree

Area 3 Engineering and Technology Teacher Education (9-12 Certification) - 120 hours

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• *A grade of C or higher is required in CADD 1105 in order to enroll in CADD 1170.

- **The program requires 12 hours of Departmentally Approved Science & Technology Major Electives. See program coordinator for recommendations.
- ***The courses listed for this semester constitute the professional education (student teaching) block. The student should not take any other courses during this semester.
- #These course must be taken concurrently.

Semester Total

- 10This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- The Missouri General Education Assessment (MoGEA) is an exam required of all Teacher Education students. Students must pass all areas of the MoGEA for admission to the Teacher Education Program. Students should take and successfully complete the MoGEA before completion of their sophomore year (60 earned hours). See your academic advisor to discuss the classes needed to prepare for the exam.
- Teacher Education candidates must take the appropriate Missouri Content Assessment (MoCA) for their certification area before they can student teach, and must pass it in order to be recommended for certification. Information and registration is available on the MEGA website: http://www.mo.nesinc.com/.
- See www.ucmo.edu/cert for statement and information (including application) on admission to teacher education. Full admission is required before enrollment in professional education classes and student teaching. The application for student teaching is due approximately one year in advance.

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

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester CHEM 1131 General Chemistry I (GE)*# ENGL 1020 Composition I (GE) MATH 1151 Calculus & Analytic Geometry I (GE)* General Education Managing Information Semester Total AE 1400 University Foundations**	Hrs 5 3 5 2-3 15-16 1	Freshman Year - Spring Semester CHEM 1132 General Chemistry II# ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) MATH 1152 Calculus & Analytic Geometry II General Education Semester Total	Hrs 5 3 5 3 16
Sophomore Year - Fall Semester CHEM 3341 Organic Chemistry I# PHYS 1101 College Physics I (GE) General Education Semester Total	Hrs 4 6 14	Sophomore Year - Spring Semester CHEM 3342 Organic Chemistry II# PHYS 1102 College Physics II General Education Semester Total	Hrs 4 4 6 14
Junior Year - Fall Semester CHEM 3111 Intermediate Inorganic Chemistry*** CHEM 3421 Intermediate Biochemistry# CHEM 4231 Instrumental Analysis*** CHEM 4910 Research in Chemistry General Education Semester Total	Hrs 4 3 4 1 3 15	Junior Year - Spring Semester CHEM 3212 Quantitative Analysis CHEM 3920 Communication Skills in Chemistry*** ¹⁰ CHEM 4910 Research in Chemistry General Education Free Choice Electives Semester Total	Hrs 3 2 1 6 3 15
Senior Year - Fall Semester CHEM 4111 Advanced Inorganic Chemistry or CHEM 4313 Advanced Organic Chemistry CHEM 4531 Physical Chemistry I*** CHEM 4910 Research in Chemistry Free Choice Electives	Hrs 3 4 1 8	Senior Year - Spring Semester CHEM 4421 Advanced Biochemistry CHEM 4532 Physical Chemistry II*** CHEM 4910 Research in Chemistry Free Choice Electives Semester Total	Hrs 3 4 1 6-7 14-15

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

- *Enrollment in CHEM 1131 and MATH 1151 is dependent upon one or more of the following: math placement level, high school math courses completed, ACT/SAT standardized test scores, and/or a possible mathematics placement examination.
- **AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- ***Upper level chemistry courses offered variably. Check with the department for actual offerings.

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• #A grade of C or better is required to enroll in future major classes.

Semester Total

- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

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

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester CHEM 1131 General Chemistry I (GE)*# ENGL 1020 Composition I (GE) MATH 1151 Calculus & Analytic Geometry I (GE)* General Education Managing Information Semester Total AE 1400 University Foundations**	Hrs 5 3 2-3 15-16 1	Freshman Year - Spring Semester CHEM 1132 General Chemistry II# ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) MATH 1152 Calculus & Analytic Geometry II General Education Semester Total	Hrs 5 3 5 3 16
Sophomore Year - Fall Semester CHEM 3341 Organic Chemistry I# ET 1010 Applied Electricity PHYS 1101 College Physics I (GE) General Education Semester Total	Hrs 4 4 3 15	Sophomore Year - Spring Semester CHEM 3342 Organic Chemistry II GEOG 2212 World Geography (GE) PHYS 1102 College Physics II General Education Semester Total	Hrs 4 3 4 3 14
Junior Year - Fall Semester CHEM 3111 Intermediate Inorganic Chemistry*** CHEM 3421 Intermediate Biochemistry CHEM 4231 Instrumental Analysis*** CHEM 4910 Research in Chemistry General Education Semester Total	Hrs 4 3 4 1 3 15	Junior Year - Spring Semester CHEM 3212 Quantitative Analysis# CHEM 3920 Communication Skills in Chemistry*** ¹⁰ CHEM 4910 Research in Chemistry General Education Semester Total	Hrs 3 2 1 9 15
Senior Year - Fall Semester CHEM 4531 Physical Chemistry I*** CHEM 4910 Research in Chemistry ET 3017 Programmable Logic Controllers Free Choice Electives Semester Total	Hrs 4 1 4 6 15	Senior Year - Spring Semester CHEM 4221 Environmental Chemistry*** CHEM 4532 Physical Chemistry II*** CHEM 4910 Research in Chemistry Free Choice Electives Semester Total	Hrs 3 4 1 6-7 14-15

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

- *Enrollment in CHEM 1131 and MATH 1151 is dependent upon one or more of the following: math placement level, high school math courses completed, ACT/SAT standardized test scores, and/or a possible mathematics placement examination.
- #A grade of C or better is required to enroll in future required major classes. See Undergraduate Catalog for more information.
- **AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- ***Upper level chemistry courses offered variably. Check with the department for actual offerings.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

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

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester CHEM 1131 General Chemistry I (GE)*# ENGL 1020 Composition I (GE) MATH 1151 Calculus & Analytic Geometry I (GE)* General Education Managing Information Semester Total AE 1400 University Foundations**	Hrs 5 3 5 2-3 15-16 1	Freshman Year - Spring Semester CHEM 1132 General Chemistry II# ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) MATH 1152 Calculus & Analytic Geometry II General Education Semester Total	Hrs 5 3 5 3 16
Sophomore Year - Fall Semester BIOL 1110 Principles of Biology CHEM 3341 Organic Chemistry I# PHYS 1101 College Physics I (GE) General Education Semester Total	Hrs 3 4 3 14	Sophomore Year - Spring Semester CHEM 3342 Organic Chemistry II EASC 3010 Environmental Geology PHYS 1102 College Physics II General Education Semester Total	Hrs 4 3 4 6 17
Junior Year - Fall Semester CHEM 3111 Intermediate Inorganic Chemistry*** CHEM 3421 Intermediate Biochemistry CHEM 4231 Instrumental Analysis*** CHEM 4910 Research in Chemistry General Education Semester Total	Hrs 4 3 4 1 3 15	Junior Year - Spring Semester CHEM 3212 Quantitative Analysis# CHEM 3920 Communication Skills in Chemistry*** ¹⁰ CHEM 4910 Research in Chemistry General Education Semester Total	Hrs 3 2 1 9 15
Senior Year - Fall Semester CHEM 4531 Physical Chemistry I*** CHEM 4910 Research in Chemistry GEOG 4220 Geographic Information Systems I Free Choice Electives Semester Total	Hrs 4 1 3 6 14	Senior Year - Spring Semester CHEM 4221 Environmental Chemistry*** CHEM 4532 Physical Chemistry II*** CHEM 4910 Research in Chemistry SAFE 3120 Industrial Hygiene (3 hidden prereqs) Free Choice Electives Semester Total	Hrs 3 4 1 3 2-3 13-14

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

- *Enrollment in CHEM 1131 and MATH 1151 is dependent upon one or more of the following: math placement level, high school math courses completed, ACT/SAT standardized test scores, and/or a possible mathematics placement examination.
- #A grade of C or better is required to enroll in future major classes. See Undergraduate Catalog for more information.
- **AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- ***Upper level chemistry courses offered variably. Check with the department for actual offerings.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

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

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester CHEM 1131 General Chemistry I (GE)*+ ENGL 1020 Composition I (GE) MATH 1151 Calculus & Analytic Geometry I (GE)* General Education Managing Information (CIS 1600 rec. for IBE Block)# Semester Total AE 1400 University Foundations**	Hrs 5 3 5 2-3 15-16 1	Freshman Year - Spring Semester CHEM 1132 General Chemistry II+ ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) MATH 1152 Calculus & Analytic Geometry II General Education++ Semester Total	Hrs 5 3 5 3 16
Sophomore Year - Fall Semester CHEM 3341 Organic Chemistry I+ PHYS 1101 College Physics I (GE) General Education Semester Total	Hrs 4 4 6 14	Sophomore Year - Spring Semester ACCT 2100 Survey of Accounting CHEM 3342 Organic Chemistry II PHYS 1102 College Physics II General Education Semester Total	Hrs 3 4 3 14
Junior Year - Fall Semester CHEM 3111 Intermediate Inorganic Chemistry*** CHEM 3421 Intermediate Biochemistry CHEM 4231 Instrumental Analysis*** CHEM 4910 Research in Chemistry General Education Semester Total	Hrs 4 3 4 1 3 15	Junior Year - Spring Semester CHEM 3212 Quantitative Analysis CHEM 3920 Communication Skills in Chemistry*** ¹⁰ CHEM 4910 Research in Chemistry General Education Semester Total	Hrs 3 2 1 9 15
Senior Year - Fall Semester CHEM 4531 Physical Chemistry I*** CHEM 4910 Research in Chemistry CIS 3630 Management Information Systems# MGT 3315 Management of Organizations# MGT 3385 or MKT 3485 or CIS 3685 IBE Practicum# MKT 3405 Marketing Policy# Semester Total	Hrs 4 3 3 3 3 17	Senior Year - Spring Semester CHEM 4532 Physical Chemistry II*** CHEM 4910 Research in Chemistry Free Choice Electives Semester Total	Hrs 4 1 8-9 13-14

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

- *Enrollment in CHEM 1131 and MATH 1151 is dependent upon one or more of the following: math placement level, high school math courses completed, ACT/SAT standardized test scores, and/or a possible mathematics placement examination.
- **AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- ***Upper level chemistry courses offered variably. Check with the department for actual offerings.
- +A grade of C or better is required to enroll in future major classes.
- ++ECON 1010 is a recommended general education course for students planning to pursue an MBA degree.
- #Students pursuing Area 4 must enroll in the IBE Block. This includes the IBE Practicum (MGT 3385, MKT 3485 or CIS 3685) concurrently with the IBE sections of MGT 3315, MKT 3405 and CIS 3630. See CIS department for enrollment in CIS 3630 due to prerequisites (ACCT 2101 and CIS 1600).
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

Chemistry Major (Area 1: Standard Chemistry Certificate), B.S. in Ed. Degree (41-485)

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester BIOL 1110 Principles of Biology CHEM 1131 General Chemistry I (GE)*+ ENGL 1020 Composition I (GE) POLS 1510 American Government (GE) General Education Managing Information Semester Total	Hrs 3 5 3 2 2 16	Freshman Year - Spring Semester BIOL 1005 Introduction to Environmental Sciences (GE) CHEM 1132 General Chemistry II+ ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) HIST 1350 or 1351 History of the United States (GE) General Education Semester Total	Hrs 3 5 3 3 3 17
Sophomore Year - Fall Semester CHEM 3341 Organic Chemistry I+ EDFL 2100 Introduction to the Teaching Profession FLDX 2150 Introductory Field Experience EDFL 2240 Educational Psychology MATH 1151 Calculus & Analytic Geometry I (GE)* Semester Total	Hrs 4 3 1 3 5 16	Sophomore Year - Spring Semester CHEM 3212 Quantitative Analysis EASC 1004 Introduction to Geology EDSP 2100 Education of the Exceptional Child PHYS 1101 or PHYS 2121 (or PHYS 2123 & 1123) Semester Total (Successfully complete MoGEA exam by end of this semester)	Hrs 3 4 3 4-5 14-15
Junior Year - Fall Semester CHEM 3111 Intermediate Inorganic Chemistry** EDFL 4210 Introduction to Content Area Literacy PSY 4230 Psychology of Adolescence (GE) STCH 3020 Science and Engineering Practices General Education Semester Total	Hrs 4 2 3 3 3 15	Junior Year - Spring Semester CHEM 4531 or 4532 Physical Chemistry** EDFL 4212 Literacy in the Disciplines I EDFL 4973 Classroom Management in Content Areas EDFL 4974 Content Specific Assessment FLDX 3000 Field Experience in the Content Area*** STCH 4050 Science Teaching Methods*** General Education Semester Total	Hrs 4 2 1 1 3 3 15
 Senior Year - Fall Semester CHEM 3421 Intermediate Biochemistry EDFL 2250 Introduction to English Language Learners and Culturally Responsive Pedagogy EDFL 4970 Secondary Teaching & Behavioral Management EDFL 4972 Literacy in the Disciplines II FIDX 4970 Field Experience II in the Content Area General Education Semester Total (All non-student teaching coursework and tests must be successfully completed by the end of this semester for enrollment in student teaching.) 	Hrs 3 2 2 2 1 6 16	Senior Year - Spring Semester++ FLDX 4468 Student Teaching Secondary II ¹⁰ FLDX 4595 Student Teaching Secondary I STCH 4080 Secondary Science Teaching Semester Total	Hrs 4 5 3 12

Chemistry Major (Area 1: Standard Chemistry Certificate), B.S. in Ed. Degree - 121 hours

- *Enrollment in CHEM 1131 and MATH 1151 is dependent upon one or more of the following: math placement level, high school math courses completed, ACT/SAT standardized test scores, and/or a possible mathematics placement examination.
- ** Upper level chemistry courses offered variably. Check with the department for actual offerings.
- ***These courses must be taken concurrently.
- +A grade of C or better is required to enroll in future major classes. See the Undergraduate Catalog for more information.
- ++The courses listed for this semester constitute the professional education (student teaching) block. The student should not take any other courses during this semester.

• 10This course fulfills Competency 10 - Integration in the General Education program. The hours count in the major, not in general education.

- The Missouri General Education Assessment (MoGEA) is an exam required of all Teacher Education students. Students must pass all areas of the MoGEA for admission to the Teacher Education Program. Students should take and successfully complete the MoGEA before completion of their sophomore year (60 earned hours). See your academic advisor to discuss the classes needed to prepare for the exam.
- Teacher Education candidates must take the appropriate Missouri Content Assessment (MoCA) for their certification area before they can student teach, and must pass it in order to be recommended for certification. Information and registration is available on the MEGA website: http://www.mo.nesinc.com/.
- See www.ucmo.edu/cert for statement and information (including application) on admission to teacher education. Full admission is required before enrollment in professional education classes and student teaching. The application for student teaching is due approximately one year in advance.

Chemistry Major (Area 2: Chemistry-Unified Science Certificate), B.S. in Ed. Degree (41-485)

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester BIOL 1111 Plant Biology CHEM 1131 General Chemistry I (GE)*+ ENGL 1020 Composition I (GE) POLS 1510 American Government (GE) General Education Managing Information Semester Total	Hrs 4 5 3 2 17	Freshman Year - Spring Semester BIOL 1005 Introduction to Environmental Sciences (GE) CHEM 1132 General Chemistry II+ ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) HIST 1350 or 1351 History of the United States (GE) General Education Semester Total	Hrs 3 5 3 3 3 17
Sophomore Year - Fall Semester CHEM 3341 Organic Chemistry I+ EDFL 2100 Introduction to the Teaching Profession FLDX 2150 Introductory Field Experience EDFL 2240 Educational Psychology MATH 1151 Calculus & Analytic Geometry I (GE)* Semester Total	Hrs 4 3 1 3 5 16	Sophomore Year - Spring Semester CHEM 3212 Quantitative Analysis EASC 1004 Introduction to Geology EDSP 2100 Education of the Exceptional Child PHYS 1101 or PHYS 2121 (or PHYS 2123 & 1123) Semester Total (Successfully complete MoGEA exam by end of this semester	Hrs 3 4 3 4-5 14-15
Junior Year - Fall Semester BIOL 1112 Animal Biology CHEM 3111 Intermediate Inorganic Chemistry** EDFL 4210 Introduction to Content Area Literacy PHYS 1102 or PHYS 2122 (or PHYS 2124 & 1124) STCH 3020 Science and Engineering Practices Semester Total	Hrs 4 4 2 4-5 3 17-18	Junior Year - Spring Semester CHEM 4531 or 4532 Physical Chemistry** EASC 1114 or GEOG 1114 Weather & Climate EDFL 4212 Literacy in the Disciplines I EDFL 4973 Classroom Management in Content Areas EDFL 4974 Content Specific Assessment FLDX 3000 Field Experience in the Content Area*** STCH 4050 Science Teaching Methods*** Semester Total	Hrs 4 2 1 1 1 3 16
Junior Year - Summer Semester PSY 4230 Psychology of Adolescence (GE) General Education Semester Total	Hrs 3 6 9		
 Senior Year - Fall Semester CHEM 3421 Intermediate Biochemistry EDFL 2250 Introduction to English Language Learners and Culturally Responsive Pedagogy EDFL 4970 Secondary Teaching & Behavioral Management EDFL 4972 Literacy in the Disciplines II FLDX 4970 Field Experience II in the Content Area General Education Semester Total (All non-student teaching coursework and tests must be successfully completed by the end of this semester for enrollment in student teaching.) 	Hrs 3 2 2 2 1 6 16	Senior Year - Spring Semester++ FLDX 4468 Student Teaching Secondary II ¹⁰ FLDX 4595 Student Teaching Secondary I STCH 4080 Secondary Science Teaching Semester Total	Hrs 4 5 3 12

Chemistry Major (Area 2: Chemistry-Unified Science Certificate), B.S. in Ed. Degree - 134-136 hours

- *Enrollment in CHEM 1131 and MATH 1151 is dependent upon one or more of the following: math placement level, high school math courses completed, ACT/SAT standardized test scores, and/or a possible mathematics placement examination.
- **Upper level chemistry courses offered variably. Check with the department for actual offerings.
- ***These courses must be taken concurrently.
- +A grade of C or better is required to enroll in future major classes. See the Undergraduate Catalog for more information.
- ++The courses listed for this semester constitute the professional education (student teaching) block. The student should not take any other courses during this semester.
- 10This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- The Missouri General Education Assessment (MoGEA) is an exam required of all Teacher Education students. Students must pass all areas of the MoGEA for admission to the Teacher Education Program. Students should take and successfully complete the MoGEA before completion of their sophomore year (60 earned hours). See your academic advisor to discuss the classes needed to prepare for the exam.
- Teacher Education candidates must take the appropriate Missouri Content Assessment (MoCA) for their certification area before they can student teach, and must pass it in order to be recommended for certification. Information and registration is available on the MEGA website: http://www.mo.nesinc.com/.
- See www.ucmo.edu/cert for statement and information (including application) on admission to teacher education. Full admission is required before enrollment in professional education classes and student teaching. The application for student teaching is due approximately one year in advance.

UNIVERSITY OF CENTRAL MISSOURI

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

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester AE 1450 Valuing Differences CFD 1010 Individual & Family Relationships (GE) ENGL 1020 Composition I (GE) PSY 1100 General Psychology or SOC 1800 Gen. Sociology (GE) General Education Semester Total AE 1400 University Foundations*	Hrs 1 3 3 6 16 1	Freshman Year - Spring Semester CFD 1220 Child Development ECEL 2110 Diversity and Social Justice (GE) ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) General Education Semester Total	Hrs 3 3 3 6 1 5
Sophomore Year - Fall Semester CFD 1230 Observation of Children HIST 1350 or 1351 History of the United States (GE) General Education Semester Total	Hrs 2 3 9 14	Sophomore Year - Spring Semester CTE 3110 Consumer Finance & Economics or FCSE 3120 Family Resource Management SOC 2805 Introduction to Social Research General Education Free Choice Electives** Semester Total	Hrs 3 3 6 15
Junior Year - Fall Semester CFD 3230 Family Systems & Life Span Development CFD 3710 Field Experience in Child & Family Development Free Choice Electives** Semester Total Summer Semester CFD 4710 Internship*** Semester Total	Hrs 3 9 15 Hrs 3 3	Junior Year - Second Semester CFD 3240 Parent-Child Interaction CFD 3250 Org. & Admin. of Programs for Young Children CFD 4220 Sexuality Across the Lifespan Free Choice Electives** Semester Total	Hrs 3 3 6 15
Senior Year - Fall Semester CFD 3260 Youth Culture and Development CFD 4260 Adulthood CFD 4850 Family Policy and Advocacy CFD Major Elective (see Catalog for course choices) Free Choice Electives** Semester Total	Hrs 3 3 3 3 3 3 3 15	Senior Year - Spring Semester CFD 4745 Senior Seminar ¹⁰ CFD Major Elective (see Catalog for course choices) Free Choice Electives** Semester Total	Hrs 3 3 6 12

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

- *AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- **For free choice elective hours please work with CFD faculty advisor to find the most appropriate options.
- ***Internship is to be completed during the summer semester before the senior year. Students must complete the Internship Application form by February 1st. Contact your faculty advisor for more information.
- 10This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- A grade of C or higher is required in all CFD prefix courses.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA after they earn 45 credit hours but before earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

UNIVERSITY OF CENTRAL MISSOURI

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

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester COMM 1100 Introduction to Communication COMM 2330 Communication in Small Groups/Teams ENGL 1020 Composition I (GE) General Education Semester Total	Hrs 1 3 9 16	Freshman Year - Spring Semester COMM 1000 Public Speaking (GE) COMM 2100 Introduction to Communication Theory COMM 2320 Foundations of Rhetorical Theory (spring only)# or General Education ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) General Education Semester Total	Hrs 3 3 3 3 3 3 15
 Sophomore Year - Fall Semester COMM 1520 Introduction to Digital Journalism or COMM 1500 Writing Across the Media or COMM 2625 Writing & Editing for PR COMM 2000 Media Literacy (GE) COMM 2380 Intro. to Organizational Comm. (fall only)# or General Education General Education Semester Total 	Hrs 3 3 6 15	Sophomore Year - Spring Semester COMM 3010 Interpersonal Communication COMM 3100 Communication Research Methods Major Area Electives** General Education Semester Total	Hrs 3 3 6 15

Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
COMM 3000 Film Appreciation (GE)	3	COMM 4320 Social Influence*	3
COMM 3315 Improving Listening Abilities*	3	Major Area Elective**	3
Major Area Electives**	3	Free Choice Electives	9
Free Choice Electives	6	Semester Total	15
Semester Total	15		

Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
Major Area Elective**	3	COMM 4790 Senior Capstone ¹⁰	1
Free Choice Electives***	12	Major Area Elective**	3
Semester Total	15	Free Choice Electives***	10
		Semester Total	14

Communication Studies Major, B.S. Degree - 120 hours

- #Students will choose between COMM 2320 (spring semester only) or COMM 2380 (fall semester only). During the term when one is not taken, students should take a general education course.
- *Course if offered only in the semester indicated.
- **This major requires 15 credit hours of Major Area Electives from one of three content areas: Communication Consultancy; Social Influence and Media; Relational. See the Undergraduate Catalog for the approved courses in each area.
- ***Depending on the choices made for the 15 hour of major area electives, the minimum number (30) of upper level credit hours
 required for graduation may not be met. If needed, include upper level choices (3000/4000) in your general education and/or free
 choice electives.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA after they earn 45 credit hours but before earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

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

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester CIS 1600 Business Information Management (GE)* ENGL 1020 Composition I (GE) MATH 1111 College Algebra (GE)* General Education Semester Total AE 1400 or BADM 1400 University Foundations**	Hrs 3 3 6 15 1	Freshman Year - Spring Semester CIS 1612 Ethics in Information Technology (GE) COMM 1000 Public Speaking or COMM 1050 Fundamentals of Oral Communication Competency (GE) ECON 1010 Principles of Macroeconomics (GE)* ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) General Education Semester Total	Hrs 3 3 3 3 3 3 15
Sophomore Year - Fall Semester ACCT 2101 Principles of Financial Accounting* CIS 2605 Programming with Visual C# ECON 1011 Principles of Microeconomics* General Education Semester Total	Hrs 3 3 7 16	Sophomore Year - Spring Semester ACCT 2102 Principles of Managerial Accounting* BLAW 2720 Legal Environment of Business* CIS 2665 Principles of Data Communications & LAN FIN 2801 Business Statistics I* General Education Semester Total Note: Complete all B.S.B.A. Admission requirements.*	Hrs 3 3 3 3 3 3 15
Junior Year - Fall Semester CIS 2615 Introduction to JAVA (IBE Block-below)*** CIS 3630 Management Information Systems*** MGT 3315 Management of Organizations*** MKT 3405 Marketing Policy*** IBE Practicum (CIS 3685/MKT 3485/MGT 3385)*** Semester Total	Hrs 3 3 3 3 3 15	Junior Year - Spring Semester CIS 3650 Database Management Systems CIS 3660 Analysis & Design of Computer Information Systems FIN 3801 Business Statistics II FIN 3850 Principles of Finance MGT 3325 Business Communications Semester Total	Hrs 3 3 3 3 3 3 15
 Senior Year - Fall Semester CIS 3670 User Experience Design CIS 4660 Applications Development Using JAVA or CIS 4670 Applications Development Using Visual C# CIS 4680 Data Resource Management MGT 4357 Organization Policy & Strategy¹⁰ CIS Major Elective Semester Total 	Hrs 3 3 3 3 3 15	Senior Year - Spring Semester CIS 4690 Systems Architecture & Development MGT 3360 Supply Chain and Operations Management CIS Major Electives General Education Semester Total	Hrs 3 3 5 3 14

Computer Information Systems Major (Software Development), B.S.B.A. Degree - 120 Hours

- *Students in this major must complete eight preadmission courses with a grade of C or higher and obtain a 2.25 cumulative GPA, and a 2.25 in these specific courses, for admission to the degree program. These courses are recommended for completion during the freshman and sophomore years. These courses are indicated with an (*).
- **AE or BADM 1400 (1 hr.) are highly recommended for academic success. AE or BADM 1400 counts as a free choice elective, however, this major does not require any free choice electives.
- ***All CIS majors must enroll in the IBE Block. This includes the IBE practicum (CIS 3685, MKT 3485 or MGT 3385) concurrently
 with the IBE sections of MGT 3315, MKT 3405, and CIS 3630. This is typically done during the fall of the junior year.
 Prerequisites for the IBE block include: ACCT 2101, CIS 1600, and junior standing.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- A 2.25 GPA on all coursework is required for graduation in this major.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA after they earn 45 credit hours but before earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

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

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester CIS 1600 Business Information Management (GE)* CIS 1612 Ethics in Information Technology (GE) ECON 1010 Principles of Macroeconomics (GE)* ENGL 1020 Composition I (GE) MATH 1111 College Algebra (GE)* Semester Total AE 1400 or BADM 1400 University Foundations**	Hrs 3 3 3 3 3 3 15 1	Freshman Year - Spring Semester COMM 1000 Public Speaking or COMM 1050 Fundamentals of Oral Communication Competency (GE) ECON 1011 Principles of Microeconomics* ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) General Education Semester Total	Hrs 3 3 6 15
Sophomore Year - Fall Semester ACCT 2101 Principles of Financial Accounting* CIS 2605 Programming with Visual C# General Education Semester Total	Hrs 3 10 16	Sophomore Year - Spring Semester ACCT 2102 Principles of Managerial Accounting* BLAW 2720 Legal Environment of Business* CIS 2615 Introduction to JAVA CIS 2665 Prin. of Data Comm. & Local Area Network FIN 2801 Business Statistics I* Semester Total Note: Complete all B.S.B.A. Admission requirements.*	Hrs 3 3 3 3 3 15
Junior Year - Fall Semester CIS 3665 Data Communication Technologies (fall only) (IBE Block-below)*** CIS 3630 Management Information Systems*** MGT 3315 Management of Organizations*** MKT 3405 Marketing Policy*** IBE Practicum (CIS 3685/MKT 3485/MGT 3385)*** Semester Total	Hrs 3 3 3 3 3 15	Junior Year - Spring Semester CIS 3650 Database Management Systems CIS 3660 Analysis & Design of Computer Information Systems FIN 3801 Business Statistics II MGT 3325 Business Communications General Education Semester Total	Hrs 3 3 3 3 3 3 15
 Senior Year - Fall Semester CIS 4665 Data Communication & Distributed Data Processing (fall and summer semesters only) FIN 3850 Principles of Finance MGT 3360 Supply Chain and Operations Management MGT 4357 Organization Policy & Strategy¹⁰ CIS Elective Semester Total 	Hrs 3 3 3 3 3 3 15	Senior Year - Spring Semester CIS 4685 Network Planning, Design and Security (spring only CIS 4690 Systems Architecture & Development CIS Electives General Education Semester Total	Hrs /)3 3 5 3 14

Computer Information Systems Major (Networking), B.S.B.A. Degree - 120 Hours

- *Students in this major must complete eight preadmission courses with a grade of C or higher and obtain a 2.25 cumulative GPA, and a 2.25 in these specific courses, for admission to the degree program. These courses are recommended for completion during the freshman and sophomore years. These courses are indicated with an (*).
- **AE or BADM 1400 (1 hr.) are highly recommended for academic success. AE or BADM 1400 counts as a free choice elective, however, this major does not require any free choice electives.
- ***All CIS majors must enroll in the IBE Block. This includes the IBE practicum (CIS 3685, MKT 3485 or MGT 3385) concurrently
 with the IBE sections of MGT 3315, MKT 3405, and CIS 3630. This is typically done during the fall of the junior year.
 Prerequisites for the IBE block include: ACCT 2101, CIS 1600, and junior standing.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- A 2.25 GPA on all coursework is required for graduation in this major.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA after they earn 45 credit hours but before earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

Computer Science Major (Option 1 Software Design), B.S. Degree (43-01281)

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester ACST 1300 Basic Statistics (GE) COMM 1000 Public Speaking or COMM 1050 Fundamentals of Oral Communication Competency (GE) CS 1000 Computers and Modern Society (GE) CS 1100 Computer Programming I ENGL 1020 Composition I (GE) Semester Total AE 1400 University Foundations*	Hrs 3 3 3 3 3 15 1	 Freshman Year - Spring Semester CS 1030 Intro. to Comp. Prog. or MATH 1131 Applied Calculus or MATH 1151 Calculus & Analytic Geom. (GE CS 1110 Computer Programming II General Education Semester Total 	Hrs 3-5 3 9 15-17
Sophomore Year - Fall Semester CS 2300 Data Structures CS 3500 C and UNIX Environment Option 1 Major Elective+ General Education Semester Total	Hrs 3 3 6 15	Sophomore Year - Spring Semester CS 2200 Introduction to Computer Organization CS 2400 Discrete Structures CTE 3060 Technical Writing (GE) Option 1 Major Elective+ General Education Semester Total	Hrs 3 3 3 3 3 3 1 5
Junior Year - Fall Semester CS 3200 Computer Architecture** CS 4300 Algorithm Design & Analysis** Option 1 Major Elective+ General Education Semester Total	Hrs 3 6 3 15	Junior Year - Spring Semester CS 3100 Programming Languages** CS 4500 Operating Systems** Option 1 Major Elective+ General Education Semester Total	Hrs 3 6 3 15
Senior Year - Fall Semester CS 4600 Database Theory & Applications CS 4910 Software Engineering Option 1 Major Elective+ Free Choice Electives++ Semester Total	Hrs 3 3 6 3 15	Senior Year - Spring Semester CS 4920 Senior Project** ¹⁰ Option 1 Major Elective+ Free Choice Electives++ Semester Total	Hrs 3 3 7-9 13-15

Computer Science Major (Option 1 Software Design), B.S. Degree - 120 hours

- *AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- **This class is only offered during the semester indicated.
- +Option 1 requires 27 credit hours of major electives from two different groupings. See the 2015 Undergraduate Catalog for the list of appropriate course choices.
- ++The number of free choice electives will depend on the selection made among CS 1030/MATH 1131/MATH 1151.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

Computer Science Major (Missouri Innovation Campus (MIC) Option 1 Software Design), B.S. Degree (43-01281)

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Courses listed in the first seven semesters include the course prefix, number, and titles used by the Metropolitan Community Colleges (MCC). The UCM equivalents are listed in parenthesis after the MCC course title. If there is no UCM equivalency, (N/A) is listed. Transfer course articulations may be found on the UCM website at www.ucmo.edu/corequiv/transferSearch.cfm.

High School Junior Year/MCC - Summer Semester COLL 100 First-Year Seminar CSIS 110 Tech. and Info. Management (BTE 1210) (GE) Semester Total	Hrs 1 3 4	High School Junior Year/MCC - Fall Semester CSIS 115 Intro. to Microcomputer Applications (CIS 1600) CSIS 123 Programming Fundamentals (CS 1100) CSIS 143 Database Design and Management (CS 4600) MATH 110 Intermed. Algebra or MATH 120 College Algebra Semester Total	Hrs 3 3 3 3 12
High School Junior Year/MCC - Spring Semester CSIS 222 Java (substitute for CS 1110) CSIS 223 Object Oriented Programming (CS 3110) HIST 120, HIST 121, POLS 135, POLS 136, or POLS 137 (GE) Semester Total	Hrs 3 3 3 9	High School Senior Year/MCC - Summer Semester BSAD 120 Organizational Behavior CSIS 170 Principles of Information Assurance (CS 1000) (GE Semester Total	Hrs 3 3 6
High School Senior Year/MCC - Fall Semester CSIS 128 Web Development CSIS 161 Networking Fundamentals ENGL 101 Composition and Reading I (ENGL 1020) (GE) PHYS 130 General Physics I (PHYS 1101) (GE) or CHEM 107 Preparatory General Chemistry (GE) Semester Total	Hrs 3 3 3 5 14	High School Senior Year/MCC - Spring Semester CSIS 152 Linux Operating Systems (CS 3500) CSIS 228 Advanced Web Development (CS 3120)+ CSIS 279 Web Database Programming CSIS 290 Field Competencies and Employment Strategies ENGL 215 Technical Writing (CTE 3060) (GE) Semester Total (graduate from high school and MCC this semester)	Hrs 3 3 3 3 3 3 15
MCC Junior Year - Summer Semester BSAD 127/221 Management Internship I COMM 100 Fundamentals of Speech (COMM 1000) (GE) Semester Total (finish MCC requirements this semester)	Hrs 3 3 6	 UCM Junior Year - Fall Semester CS 1030 Intro. to Computer Programming or MATH 1131 Applied Calculus (GE) or MATH 1151 Calculus & Analytic Geometry I CS 2200 Introduction to Computer Organization CS 2300 Data Structure CS 2400 Discrete Structures General Education Semester Total 	Hrs 3-5 3 3 3 3 15-17
UCM Junior Year - Spring Semester ACST 1300 Basic Statistics (GE) CS 3100 Programming Languages* CS 3800 Applications Development w/ VB.NET** General Education Semester Total	Hrs 3 3 6 15	UCM Senior Year - Summer Semester CS 4020 Internship in CS+ General Education Semester Total	Hrs 3 3 6
UCM Senior Year - Fall Semester CS 3200 Computer Architecture* CS 4110 Mobile Applications Programming with Android** CS 4300 Algorithm Design & Analysis* CS 4800 Computer Networking+ CS 4910 Software Engineering CS Option 1 Major Elective Semester Total	Hrs 3 3 3 3 3 3 3 18	UCM Senior Year - Spring Semester CS 4120 Advanced Applications Programming in Java** CS 4500 Operating Systems* CS 4820 Computer Security+ CS 4920 Senior Project ^{* 10} General Education Semester Total	Hrs 3 3 3 3 3 3 15

Computer Science Major (Missouri Innovation Campus (MIC) Option 1 Software Design), B.S. Degree (43-01281)

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Computer Science Major (Missouri Innovation Campus (MIC) Option 1 Software Design), B.S. Degree - 138 hours

- This program is offered in cooperation with the Lee's Summit R-7 School District and the Metropolitan Community College (MCC). Students begin the program during their junior year in high school and will earn an AAS degree from MCC-Longview with a major in Computer Science and Information Systems: Software Development Emphasis.
- Students must be accepted into this program. Go to www.ucmo.edu/mic or call 660-543-8256 for more information.
- *This class is only offered during the semester indicated.
- **Option 1 requires 9-18 credit hours of major electives from CS 3110, 3130, 3800, 4110, 4120 and/or 4930.
- +Option 1 requires 9-18 credit hours of major electives (18 required if only 9 hours were chosen from CS 3110, 3130, 3800, 4110, 4120, and 4930 see above). See the 2015 Undergraduate Catalog for the list of appropriate course choices. The total number of Option 1 electives must equal 27 hours.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- Please note that the credit hours from any course taken at a community college that articulates or substitutes for an upper-level (3000/4000) UCM course will not count towards the upper-level hours needed for graduation. The same rule applies to any 1000/2000 level courses at four-year institutions, even if the course(s) articulates or substitutes for an upper-level (3000/4000) UCM course. Learn more at

www.ucmo.edu/registrar/standards/upper.cfm.

• To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

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

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester CS 1000 Computers and Modern Society (GE) CS 1100 Computer Programming I ENGL 1020 Composition I (GE) General Education Semester Total AE 1400 University Foundations*	Hrs 3 3 6 15 1	Freshman Year - Spring Semester COMM 1000 Public Speaking or COMM 1050 Fundamentals of Oral Communication Competency (GE) CS 1110 Computer Programming II MATH 1151 Calculus & Analytic Geometry I (GE) General Education Semester Total	Hrs 3 3 5 3 14
Sophomore Year - Fall Semester CS 2300 Data Structures CS 3500 C and UNIX Environment MATH 1152 Calculus & Analytic Geometry II General Education Semester Total	Hrs 3 5 3 14	Sophomore Year - Spring Semester CS 2200 Introduction to Computer Organization CS 2400 Discrete Structures CTE 3060 Technical Writing (GE) Option 2 Major Elective*** General Education Semester Total	Hrs 3 3 3 3 3 15
Junior Year - Fall Semester CS 3200 Computer Architecture** CS 4300 Algorithm Design & Analysis** CS 4600 Database Theory & Applications Option 2 Major Electives*** General Education Semester Total	Hrs 3 3 4 3 16	Junior Year - Spring Semester CS 3100 Programming Languages** CS 4500 Operating Systems** Option 2 Major Electives*** General Education Semester Total	Hrs 3 7 3 16
Senior Year - Fall Semester CS 4910 Software Engineering Option 2 Major Elective*** General Education Semester Total	Hrs 3 6 6 15	Senior Year - Spring Semester CS 4920 Senior Project** ¹⁰ Option 2 Major Elective*** Free Choice Electives+++ Semester Total	Hrs 3 3 9 15

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

- *AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- **This class is only offered during the semester indicated.
- ***Option 2 requires a total of 28-29 credit hours. The only required course within these hours is MATH 1152. Choose the remaining 23-24 hours from the four lists in the 2015 Undergraduate Catalog. A minimum of 8 credit hours of MATH and 8 credit hours of science (BIOL/CHEM/EASC/PHYS) must be selected in Option 2. Total math and science combined must be at least 22 credit hours. The remaining 6 hours will be CS courses.
- If chosen as part of the 23-24 hours of major electives, BIOL 2010, 2510, CHEM 1131, EASC 1004, 1114, PHYS 1101 and/or 2121 will count both in the major and in general education. If selected, the number of free choice electives will increase.
- +++The number of free choice electives required will depend on the selections made in the Option 2 courses. Up to seven hours of
 overlap between major and general education is possible (see list in bullet above). This plan assumes no overlap.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

Computer Science Major (Option 3 Computer Networking and Security - Applications Development), B.S. Degree (43-03281)

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester ACST 1300 Basic Statistics (GE) CS 1000 Computers and Modern Society (GE) CS 1100 Computer Programming I ENGL 1020 Composition I (GE) General Education Semester Total AE 1400 University Foundations*	Hrs 3 3 3 3 3 15 1	 Freshman Year - Spring Semester COMM 1000 Public Speaking or COMM 1050 Fundamentals of Oral Communication Competency (GE) CS 1030 Intro. to Comp. Prog. or MATH 1131 Applied Calculus or MATH 1151 Calculus & Analytic Geom. (GE CS 1110 Computer Programming II General Education Semester Total 	Hrs 3 3-5 3 6 15-17
Sophomore Year - Fall Semester CS 2300 Data Structures CS 3500 C and UNIX Environment General Education Semester Total	Hrs 3 3 9 15	Sophomore Year - Spring Semester CS 2200 Introduction to Computer Organization CS 2400 Discrete Structures CTE 3060 Technical Writing (GE) Option 3 Major Elective** General Education Semester Total	Hrs 3 3 3 3 3 15
Junior Year - Fall Semester CS 3200 Computer Architecture*** CS 4300 Algorithm Design & Analysis*** CS 4600 Database Theory & Applications Option 3 Major Elective** Semester Total	Hrs 3 3 6 15	Junior Year - Spring Semester CS 3100 Programming Languages*** CS 4500 Operating Systems*** Option 3 Major Elective** General Education Semester Total	Hrs 3 3 6 3 15
Senior Year - Fall Semester CS 4910 Software Engineering Option 3 Major Electives** Free Choice Electives++ Semester Total	Hrs 3 6 15	Senior Year - Spring Semester CS 4920 Senior Project*** ¹⁰ Option 3 Major Elective** Free Choice Electives++ Semester Total	Hrs 3 6 4-6 13-15

Computer Science Major (Option 3 Computer Networking and Security - Applications Development), B.S. Degree - 120 hours

- *AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- **Option 3 requires a total of 27 hours of major electives: 12-18 hours from set one and 9-15 hours from set two. See the 2015 Undergraduate Catalog for the list of appropriate course choices in each set.
- ***This class is only offered during the semester indicated.
- ++The number of free choice electives will depend on the selection made among CS 1030/MATH 1131/MATH 1151.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

Computer Science Major (Option 4 Game Development), B.S. Degree (43-04281)

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester ACST 1300 Basic Statistics (GE) CS 1000 Computers and Modern Society (GE) CS 1100 Composition I (GE) General Education Semester Total AE 1400 University Foundations*	Hrs 3 3 3 3 3 15 1	 Freshman Year - Spring Semester COMM 1000 Public Speaking or COMM 1050 Fundamentals of Oral Communication Competency (GE) CS 1030 Intro. to Comp. Prog. or MATH 1131 Applied Calculus or MATH 1151 Calculus & Analytic Geom. (GE CS 1110 Computer Programming II General Education Semester Total 	Hrs 3 3-5 3 6 15-17
Sophomore Year - Fall Semester CS 2300 Data Structures CS 3500 C and UNIX Environment General Education Semester Total	Hrs 3 3 9 15	Sophomore Year - Spring Semester CS 2200 Introduction to Computer Organization CS 2400 Discrete Structures CTE 3060 Technical Writing (GE) Option 4 Major Elective** General Education Semester Total	Hrs 3 3 3 3 3 3 15
Junior Year - Fall Semester CS 3200 Computer Architecture*** CS 3810 Introduction to Game Design CS 4300 Algorithm Design & Analysis*** CS 4600 Database Theory & Applications Option 4 Major Elective** Semester Total	Hrs 3 3 3 3 3 3 15	Junior Year - Spring Semester CS 3100 Programming Languages*** CS 4110 Mobile Applications Programming with Android CS 4500 Operating Systems*** Option 4 Major Elective** Semester Total	Hrs 3 3 6 15
Senior Year - Fall Semester CS 4910 Software Engineering Option 4 Major Elective** General Education Free Choice Electives+ Semester Total	Hrs 3 3 3 6 15	Senior Year - Spring Semester CS 4830 Game Development CS 4920 Senior Project*** ¹⁰ Option 4 Major Elective** Free Choice Electives+ Semester Total	Hrs 3 3 4-6 13-15

Computer Science Major (Option 4 Game Development), B.S. Degree - 120 hours

- *AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- **Option 4 requires 18 hours of major electives. See the 2015 Undergraduate Catalog for the list of appropriate course choices.
- ***This class is only offered during the semester indicated.
- +The number of free choice electives will depend on the selection made among CS 1030/MATH 1131/MATH 1151.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

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

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester CIS 1600 Business Information Management (GE) CMGT 1300 Introduction to Construction Management CMGT 1301 Seminar in Construction Management ENGL 1020 Composition I (GE) MATH 11111 College Algebra (GE) General Education Semester Total	Hrs 3 .5 3 3 3 15.5	Freshman Year - Spring Semester CADD 1105 Basic AutoCAD CADD 1110 Fundamentals of Drafting CMGT 2310 Construction Plans & Specifications ECON 1010 Principles of Macroeconomics (GE) MATH 1112 College Trigonometry PHYS 1103 Introduction to the Sciences: Physics (GE) Semester Total	Hrs 1 3 3 2 3 15
Sophomore Year - Fall Semester ACST 1300 Basic Statistics CMGT 1301 Seminar in Construction Management CMGT 2020 Statics CMGT 2325 Project Cost Estimating CMGT 2340 Surveying & Construction Layout EASC 1004 Introduction to Geology (GE) Semester Total	Hrs 3 .5 3 3 4 16.5	Sophomore Year - Spring Semester BLAW 2720 Legal Environment of Business CMGT 3020 Applied Strength Materials CTE 3060 Technical Writing (GE) EASC 2100 Engineering Geology General Education Semester Total	Hrs 3 3 4 3 16
Junior Year - Fall Semester ACCT 2101 Principles of Financial Accounting CMGT 1301 Seminar in Construction Management CMGT 3330 Building Codes & Code Administration CMGT 3355 Construction Planning & Scheduling MGT 3315 Management of Organizations* or INDM 4210 Industrial Management General Education Semester Total	Hrs 3 .5 3 3 3 3 15.5	Junior Year - Spring Semester ACCT 2102 Principles of Managerial Accounting or MKT 3405 Marketing Policy* CADD 3150 Civil Drafting ** or CADD 4162 Commercial Arch. Design/Drafting (BIM)** CMGT 3320 Principles of Construction Management ENGT 2040 Engineering Material Science General Education Semester Total	Hrs 3 3 4 3 16
Summer – Between Junior & Senior Year SOT 3022 Internship in Technology*** Semester Total	Hrs]]		
Senior Year - Fall Semester CMGT 1301 Seminar in Construction Management CMGT 3350 Building Structures: Methods & Materials CMGT 4355 Computer-Based Project Control HRM 3920 Human Resources Management or INDM 4260 Organizational Dynamics General Education Semester Total	Hrs .5 3 3 6 15.5	 Senior Year - Spring Semester CMGT 4310 Construction Safety CMGT 4325 Advanced Estimating & Cost Analysis CMGT 4330 Mechanical Systems for Buildings or CMGT 4380 Heavy Construction: Methods and Materia CMGT 4400 Construction Operations¹⁰ General Education Semester Total 	Hrs 3 3 Is 3 3 3 15

Construction Management Major, B.S. Degree - Minimum hours 126

- *Students can complete a Business Administration minor by choosing MGT 3315 and MKT 3405 in the major.
- **This course has a prerequisite not included in the major program. See the Undergraduate Catalog for course prerequisites.
- ***SOT 3022 Internship in Technology should be done during the summer between the junior/senior years.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

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

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester CJ 1000 Introduction to Criminal Justice (GE) CJ 1605 Orientation to the Criminal Justice Major ENGL 1020 Composition I (GE) General Education Semester Total AE 1400 University Foundations*	Hrs 3 1 3 9 16 1	Freshman Year - Spring Semester CJ 3010 Policing a Democratic Society ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) General Education Semester Total	Hrs 3 3 9 15
Sophomore Year - Fall Semester CJ 2300 Criminal Law and Procedure CJ Major Elective General Education Semester Total	Hrs 3 3 9 15	Sophomore Year - Spring Semester CJ 3006 Corrections CJ Major Elective General Education Free Choice Electives Semester Total	Hrs 3 6 3 15
Junior Year – Fall Semester CJ 3605 Junior Seminar in Criminal Justice CJ 4503 Dynamics of Criminal Behavior Free Choice Electives Semester Total	Hrs 1 3 11 15	Junior Year - Spring Semester CJ Major Elective Free Choice Elective Semester Total	Hrs 3 12 15
Senior Year - Fall Semester CJ 3600 Introduction to CJ Research & Statistics CJ Major Elective Free Choice Electives Semester Total	Hrs 3 9 15	Senior Year - Spring Semester CJ 4605 Senior Seminar in Criminal Justice ¹⁰ CJ Major Elective Free Choice Electives Semester Total	Hrs 1 3 10 14

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

- *AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- A grade of C or higher (including transfer classes) is required in all CJ major required classes, but not the 15 hours of CJ major elective courses.
- This major does not require a minor, but one is strongly recommended. Most minors are between 18-24 credit hours. This major contains 45 hours of free choice electives, this gives a lot of flexibility for the addition of a minor, double minor, double major or double degree. The number of free choice electives required will vary depending on the minor chosen.
- This major does not build in the minimum number (30) of upper-level credit hours required for graduation. Be sure to include upperlevel choices (3000/4000) in your major electives, general education, and/or free choice electives.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA after they earn 45 credit hours but before earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

Crisis and Disaster Management, B.S. Degree (43-248, 250, 251, 886)

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester ENGL 1020 Composition I (GE) General Education Semester Total AE 1400 University Foundations*	Hrs 3 12 15 1	Freshman Year - Spring Semester ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) General Education Semester Total	Hrs 3 12 15
Sophomore Year - Fall Semester CDM 3000 Introduction to Crisis & Disaster Management CHEM 1103 or 1104 Intro. to the Sciences: Chemistry (GE) General Education Semester Total	Hrs 3 3-4 8-9 15	Sophomore Year - Spring Semester CDM 3400 Community Mitigation & Recovery Free Choice Electives Semester Total	Hrs 3 9 12
Junior Year - Fall Semester Major Area Course** Free Choice Electives Semester Total	Hrs 3 12 15	Junior Year - Spring Semester CDM 4200 Disaster Management Technology Major Area Course** Free Choice Electives Semester Total	Hrs 3 3 9 15
Summer - Between Junior & Senior Year CDM 4900 Technology Application Studies*** CDM 4990 Practicum in CDM Major Area Course** Semester Total	Hrs 3 3 3 9		
Senior Year - Fall Semester CDM 4400 Research Issues in CDM CDM 4910 Field Exercise Project*** Departmentally Approved Technical Elective Free Choice Electives Semester Total	Hrs 3 3 3 3 12	Senior Year - Spring Semester CDM 4800 Integrated Emergency Management ¹⁰ Free Choice Electives Semester Total	Hrs 3 9 12

Crisis and Disaster Management, B.S. Degree - 120 hrs

- *AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- **Course choice will depend on the Major Area chosen: Business Continuity Area, Emergency Management Area, Emergency Services Management Area, or the Environmental Hazards Area. Each area requires 9 specific hours of CDM courses. See the 2015 Undergraduate Catalog for more information.
- ***CDM 4900 and 4910 can be taken any semester after the sophomore year. It is recommended to take CDM 4900 after CDM 4200.
- 10This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- Some CDM major courses may be offered only once per year. Contact the program office in Humphreys 200 at 660-543-4971 for the most up to date course offering schedule.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

Cybersecurity Major, B.S. Degree (43-892)

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester COMM 1000 Public Speaking or COMM 1050 Fundamentals of Oral Communication Competency (GE) CS 1000 Computers and Modern Society (GE) CS 1100 Computer Programming I ENGL 1020 Composition I (GE) General Education Semester Total AE 1400 University Foundations*	Hrs 3 3 3 3 3 15 1	Freshman Year - Spring Semester ACST 1300 Basic Statistics (GE) CJ 1000 Introduction to Criminal Justice (GE) CS 1110 Computer Programming II General Education Semester Total	Hrs 3 3 6 15
Sophomore Year - Fall Semester CS 2300 Data Structures CS 3500 C and UNIX Environment CS 1030 Introduction to Computer Programming or MATH 1131 Applied Calculus (GE) NET 1060 Introduction to Networks General Education Semester Total	Hrs 3 3 3 3 3 15	Sophomore Year - Spring Semester CS 2200 Introduction to Computer Organization CS 2400 Discrete Structures CTE 3060 Technical Writing (GE) NET 1061 Routers & Switching Essentials General Education Semester Total	Hrs 3 3 3 3 3 3 15
Junior Year - Fall Semester CS 3300 Introduction to Cryptography** CS 4300 Algorithm Design & Analysis** NET 3068 Network Security I Major Elective+ General Education Semester Total	Hrs 3 4 3 3 16	Junior Year - Spring Semester CS 3130 Secure Programming** CS 4500 Operating Systems** Major Electives+ General Education Semester Total	Hrs 3 6 3 15
Senior Year - Fall Semester CS 4600 Database Theory & Applications** CS 4800 Computer Networking** Major Electives+ Free Choice Elective Semester Total	Hrs 3 6 3 15	Senior Year - Spring Semester CS 4820 Computer Security CS 4920 Senior Project** ¹⁰ Major Electives+ Free Choice Electives Semester Total	Hrs 3 3 5 14

Cybersecurity Major, B.S. Degree - 120 hours

- *AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- **This class is only offered during the semester indicated.
- +This major requires 18 hours of major electives. Choose 9-12 hours from group 1 and 6-9 hours from group 2 for a total of 18 hours. Consult the course choice listing in the 2015 Undergraduate Catalog.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

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

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester BTE 1210 Essentials of Managing Information (GE) CADD 1100 Orientation to Design/Drafting*+ CADD 1105 Basic AutoCAD CADD 1110 Fundamentals of Drafting or CTE 1300 Introduction to Engineering Design CADD 1170 Introduction Computer-Aided Drafting+ ENGL 1020 Composition I (GE) MATH 1111 College Algebra (GE) Semester Total	Hrs 2 1 1 2 3 3 3 15	Freshman Year - Spring Semester CADD 2120 Machine Drafting*+ CADD 2171 Introduction to MicroStation+ EASC 1004 Introduction to Geology (GE) MATH 1112 College Trigonometry General Education Semester Total	Hrs 3 4 2 3 15
Sophomore Year - Fall Semester CADD 2100 Sophomore Design/Drafting Seminar* CADD 2150 Descriptive Geometry for Engin. Technology CMGT 2020 Statics ENGT 2530 Machine Tool Technology General Education Semester Total	Hrs .5 3 3 6 15.5	Sophomore Year - Spring Semester CADD 2160 Structural Drafting CADD 2180 Technical Illustration CADD 3171 CADD for Engineering Technology+ CMGT 3010 Applied Constructions Practices PHYS 1103 Introduction to the Sciences: Physics (GE) Semester Total	Hrs 3 3 3 3 15
Junior Year - Fall Semester CADD 3100 Junior Design/Drafting Seminar* CADD 3175 Advanced MicroStation CTE 3060 Technical Writing (GE) GEOG 2212 World Geography (GE) General Education Semester Total	Hrs .5 3 3 3 6 15.5	Junior Year - Spring Semester CADD 3150 Civil Drafting CADD 3170 Computer Drafting Systems Major Area Electives** General Education Semester Total	Hrs 3 3 6 15
Summer – Between Junior & Senior Year SOT 3022 Internship in Technology*** SOT 4210 Innovations Management for CADD or HRM 3920 Human Resource Management*** Semester Total	Hrs 1 3 4		
Senior Year - Fall Semester CADD 4100 Senior Design/Drafting Seminar* CADD 4180 Industrial Design ¹⁰ SOT 4570 Computer Graphics Major Area Electives** Semester Total	Hrs 1 3 6 13	Senior Year - Spring Semester INDM 4250 Project Management or MGT 3315 Management of Organizations*** Major Area Electives** Free Choice Electives Semester Total	Hrs 3 6 3 12

Design & Drafting Technology Major, B.S. Degree - 120 hours

- Must earn a grade of C or higher in all CADD prefix courses.
- *This class is only offered the semester indicated.
- +A grade of C or higher is required in these courses for enrollment in future CADD courses.
- **Students choose an area of specialty from the following five areas: Area 1 Mechanical (Product/Machine) Design, Area 2 Architectural/Structural, Area 3 MEP (Mechanical, Electrical & Plumbing) & Industrial Piping Systems, Area 4 Civil/GIS, or Area 5 Computer Graphics. Fifteen credit hours of Major Area Electives are required. See the 2015 Undergraduate Catalog for the list of classes required in each area.
- ***Students either take INDM 4250 and SOT 4210 or MGT 3315 and HRM 3920.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

Design & Drafting Technology Major, Missouri Innovation Campus (MIC), B.S. Degree (43-568)

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/academics/ catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Courses listed in the first seven semesters include the course prefix, number, and titles used by the Metropolitan Community Colleges (MCC). The eighth semester is partially at both MCC and UCM. The UCM equivalents are listed in parenthesis after the MCC course title. If there is no UCM equivalency, (N/A) is listed. Transfer course articulations may be found on the UCM website at www.ucmo.edu/ corequiv/transferSearch.cfm. The (GE) following some classes denotes that they will fulfill a UCM general education requirement. See the current Undergraduate Catalog (www.ucmo.edu/academics/catalogs) for a complete listing of the 42 hours of general education.

High School Junior Year/MCC - Summer Semester	Hrs
COMM 102 Fundamentals of Speech (COMM 1000) (GE)	3
EHSS 111 Intro. to Health and Safety General Industry (N/A)	1
ENGR 101 Intro. to Engineering Profession (ENGT 1500)	1
Semester Total	5
 High School Junior Year/MCC - Spring Semester ETEC 265 Introduction to Civil Design (CADD 3150) ETEC 269 CADD II (articulates as CADD 1170 but will be substituted for CADD 2180)# MATH 130 Trigonometry (MATH 1112) or MATH 150 Precalculus (MATH 1150) Semester Total 	Hrs 3 4 3 or 5 10 or 1
 High School Senior Year/MCC - Fall Semester ENGL 101 Composition and Reading I (ENGL 1020) (GE) ETEC 153 Descriptive Geometry (N/A, this course will substitute for CADD 2150)## PHYS 130 General Physics (articulates as PHYS 1101, but will substitute for PHYS 1103) (GE)+ Semester Total (must have completed MATH 130 or 150 by this semester) 	Hrs 3 4 5 12
MCC Junior Year - Summer Semester ETEC 211 Building Information Modeling, Revit (N/A, will substitute for CADD 4162)* ETEC 268 Intro. to Structural Steel Design (CADD 2160) Semester Total	Hrs 3 3 6
UCM Junior Year - Spring Semester	Hrs
CADD 3170 Computer Drafting Systems	3
CADD 3175 Advanced MicroStation	3
CMGT 3010 Applied Constructions Practices	3
ENGT 2530 Machine Tool Technology	3
General Education	6
Semester Total	18
UCM Senior Year - Fall Semester	Hrs
CADD 3171 CADD for Engineering Technology	3
GEOG 2212 World Geography (GE)	3
General Education	6
Semester Total	12

Design & Drafting Technology Major (MIC), B.S. Degree - 120 hours minimum

High School Junior Year/MCC - Fall Semester	Hrs
ETEC 152 Engineering Graphics and CADD I (CADD 1105, 1110, & 1170)	5
HIST 120 or 121 American History (HIST 1350 or 1351) or POLS 135, 136, or 137 (POLS 1500, 1510,	
or 2511 (GE) MATH 120 College Algebra (MATH 1111)	3
(course not needed if tested into MATH 130 or 150) Semester Total	3 8 or 11
	Hrs
High School Senior Year/MCC - Summer Semester ETEC 170 Microstation (CADD 2171)	3
ETEC 290 Internship (N/A) Semester Total	3 6

12

 High School Senior Year/MCC - Spring Semester CSIS 110 Technology and Information Mgmt. (BTE 12 ENGL 215 Technical Writing (CTE 3060) (GE) ETEC 200 Applied Statics and Mechanics (CMGT 20 ETEC 210 Commercial Design (N/A, will substitute for 3160)++ SRVY 135 Elementary Surveying (N/A, this course will substitute for CMGT 3330)+++ Semester Total (graduate from high school this semester) 	10) (GE)3 3 20) 3 r CADD 3
MCC/UCM Junior Year - Fall Semester CADD 2120 Machine Drafting** EASC 1004 Introduction to Geology (GE) MATH 180 Analytic Geometry and Calculus I (MATH 1151) (GE) General Education Semester Total (graduate from MCC with A.A.S. degree this semest	Hrs 3 4 5 3 15 er)
UCM Senior Year - Summer Semester SOT 3022 Internship in Technology SOT 4570 Computer Graphics Semester Total	Hrs 1 3 4
UCM Senior Year - Spring Semester CADD 4180 Industrial Design ¹⁰ INDM 4250 Project Management or MGT 3315 Management of Organizations*** SOT 4210 Innovations Management for CADD or HRM 3920 Human Resource Management*** Upper-level Free Choice Electives^ Semester Total	Hrs 3 3 0-5 10-15

Design & Drafting Technology Major, Missouri Innovation Campus (MIC), B.S. Degree (43-568)

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

General Information

- This program is offered in cooperation with the Lee's Summit R-7 School District and the Metropolitan Community College (MCC). Students begin the program during their junior year in high school and will earn an AAS degree from MCC-BTC with a major in Engineering Technology: Architecture Emphasis.
- Students must be accepted into this program. Go to www.ucmo.edu/mic or call 660-543-8256 for more information.
- The following major classes will be waived for MIC students at UCM: CADD 1100 (1 hour), 2100 (.5 hour), 3100 (.5 hour), and 4100 (1 hour). These three credit hour will be fulfilled using free elective credit or extra transfer credit.
- Please note that the credit hours from any course taken at a community college that articulates or substitutes for an upper-level (3000/4000) UCM course will not count towards the upper-level hours needed for graduation. The same rule applies to any 1000/2000 level courses at four-year institutions, even if the course(s) articulates or substitutes for an upper-level (3000/4000) UCM course. Learn more at www.ucmo.edu/registrar/standards/upper.cfm.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

Key to Curriculum Notes on Four Year Guide

- Must earn a grade of C or higher in all CADD prefix courses including those transferred.
- #While this course articulates to CADD 1170, it will also substitute for CADD 2180 which is also required in the UCM major.
- ##This course will substitute for CADD 2150 which is required in the UCM major.
- +This course will substitute for PHYS 1103 which is required in the UCM major.
- ++This course will substitute for CADD 3160 which is required in Area 2 of the UCM major.
- +++This course will substitute for CMGT 3330 which is required in Area 2 of the UCM major.
- *This course will substitute for CADD 4162 which is required in Area 2 of the UCM major.
- **This class is only offered the semester indicated.
- ***Students either take INDM 4250 and SOT 4210 or MGT 3315 and HRM 3920.

• All students must earn a minimum of 30 upper-level credits for graduation. These are classes taken at the 3000/4000 level. Courses taken at a community college may not count for these hours, even if the course is articulated or substituted for an upper-level UCM course. Students are encouraged to choose upper-level courses in the general education where available. Depending on choices made in the general education and internship, students may need additional hours of upper-level free choice electives for graduation.

 ¹⁰This course fulfills Competency 10 - Integration in the General Education program. The hours count in the major, not in general education.

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

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester CHEM 1104 Introduction to the Sciences: Chemistry (GE)# D&N 1300 Introduction to Dietetics# ENGL 1020 Composition I (GE) PSY 1100 General Psychology (GE)# General Education Managing Information Semester Total AE 1400 University Foundations*	Hrs 4 1 3 2-3 1 3-14 1	Freshman Year - Spring Semester MATH 1111 College Algebra (GE)# PE 2472 Communicating Ideas on Sport (GE)# SOC 1800 General Sociology (GE)# General Education Semester Total	Hrs 3 3 3 6 15
Sophomore Year - Fall Semester BIOL 3401 Human Anatomy# FOOD 2320 Sanitation and Safety# FOOD 2322 Food Preparation# HIST 1350 or 1351 US History General Education Semester Total	Hrs 3 1 3 3 6 16	Sophomore Year - Spring Semester ACCT 2100 Survey of Accounting# BIOL 3402 Human Physiology# CTE 3060 Technical Writing (GE)# D&N 3340 Nutrition# Free Choice Elective Semester Total	Hrs 3 5 3 3 3 17
Junior Year - Fall Semester BIOL 3611 Microbiology# FOOD 3332 Quantity Food Production & Service# FOOD 3333 Food Systems Management#** Free Choice Electives Semester Total	Hrs 4 3 6 16	Junior Year - Spring Semester CHEM 1604 Elementary Organic & Biochemistry# FOOD 3334 Advanced Food Systems Management#** PSY 4520 Statistics for the Behavioral Sciences# Free Choice Electives Semester Total	Hrs 4 3 4-5 14-15
Senior Year - Fall Semester D&N 4340 Advanced Nutrition#** D&N 4342 Medical Nutrition I#** D&N 4345 Senior Dietetics Seminar#** ¹⁰ FOOD 4326 Experimental Foods# Semester Total	Hrs 3 3 3 3 12	Senior Year - Spring Semester BIOL 2510 Basic Genetics (GE)# D&N 3350 Community Nutrition# D&N 4343 Medical Nutrition II#** D&N 4344 Nutrition Education & Counseling#** Free Choice Elective Semester Total	Hrs 3 3 2 5 16

Dietetics Major, B.S. Degree - 120 hours

- #A grade of C or better is required in these courses.
- *AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- **These classes are only offered during the term indicated.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- Registration as a dietitian requires an internship beyond BS degree. This degree fulfills the "Didactic Program in Dietetics Academic Requirements" of the Academy of Nutrition and Dietetics.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

Digital Media Production Major, B.S. Degree (43-604)

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester COMM 1000 Public Speaking (GE) COMM 1100 Introduction to Communication COMM 1200 Introduction to Mass Communication (GE) (required GE for students doing Audio and Live Studio and Remote Production major areas) or General Education COMM 1275 Introduction to Media Technology ENGL 1020 Composition I (GE) General Education Semester Total	Hrs 3 1 3 1 3 3 1 3 3 14	Freshman Year - Spring Semester COMM 2100 Introduction to Communication Theory COMM 1500 Writing Across the Media# ENGL 1030 Composition II (GE)# MUS 1450 Audio and Acoustics (GE) (required GE for students doing Audio major area) or General Education General Education Semester Total	Hrs 3 3 3 3 3 15
Sophomore Year - Fall Semester COMM 1519 Media Aesthetics COMM 2410 Multimedia Production COMM 3100 Communication Research Methods Major Area Course* General Education Semester Total	Hrs 3 3 3 3 3 15	Sophomore Year - Spring Semester COMM 2411 Audio Production Major Area Course* General Education Semester Total	Hrs 3 3 9 15
Junior Year - Fall Semester COMM 2412 Introduction to Digital Video COMM 3000 Film Appreciation (GE) Major Area Course * General Education Free Choice Electives Semester Total	Hrs 3 3 3 3 3 3 15	Junior Year - Spring Semester COMM 2000 Media Literacy (GE) COMM 4250 The Law & Digital Media Major Area Course* Free Choice Electives Semester Total	Hrs 3 3 6 15
Summer - Between Junior/Senior Year COMM 3200 Digital Media Practicum or COMM 4295 Internship** Semester Total	Hrs 3 3		
Senior Year- Fall Semester Major Area Course* Free Choice Electives Semester Total	Hrs 3 12 15	Senior Year - Spring Semester COMM 4490 Senior Capstone Seminar*** ¹⁰ Major Area Course* Free Choice Electives Semester Total	Hrs 1 6 6 13

Digital Media Production Major, B.S. Degree - 120 hours

- #Students should choose ENGL 1030 as the second writing course to meet prerequisite/corerequisite for COMM 1500.
- *Students will choose a major area (21 credit hours) from: Audio, Live Studio and Remote Production, Digital Cinema, or Digital Journalism. See the 2015 Undergraduate Catalog for the list of courses to fulfill the major area.
- **Students must complete, in any combination, a total of three credit hours of COMM 3200 (practicum) or COMM 4295 (internship).
- ***COMM 4490 must be taken during the student's final semester.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- See the 2015 Undergraduate Catalog or the Department of Communication for the statement of policy for admission to the major program.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

Earth Science Major, Area 1: Standard Earth Science Certificate; B.S. in Ed. Degree (41-280)

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester EASC 1004 Introduction to Geology (GE) ENGL 1020 Composition I (GE) MATH 1111, 1131, 1150, or 1151 General Education Semester Total AE 1400 University Foundations*	Hrs 4 3-5 6 16-18 1	Freshman Year - Spring Semester CHEM 1131 General Chemistry I (GE) EASC 1114 or GEOG 1114 Weather and Climate ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) HIST 1350 or HIST 1351 History of the United States (GE) General Education Managing Information Semester Total	Hrs 5 4 3 2 17
Sophomore Year - Fall Semester EASC 3115 Oceanography EDFL 2100 Introduction to the Teaching Profession FLDX 2150 Introductory Field Experience PHYS 1101 College Physics I or PHYS 1104 Introduction to the Sciences: Physics POLS 1510 American Government (GE) STCH 3020 Science and Engineering Practices Semester Total	Hrs 3 1 4 3 3 17	Sophomore Year - Spring Semester EASC 2200 Historical Geology** EASC 3112 Astronomy EDFL 2240 Educational Psychology (GE) EDSP 2100 Education of Exceptional Child General Education Semester Total (Successfully complete MoGEA exam by end of this semester)	Hrs 4 3 3 3 16
Junior Year - Fall Semester BIOL 1003 & 1006 or 1005 & 1006 EASC Major Elective EDFL 4210 Introduction to Content Area Literacy PSY 4230 Psychology of Adolescence General Education Semester Total	Hrs 4 3-4 2 3 3 15-16	Junior Year - Spring Semester BIOL 4102 Evolution EASC 3010 Environmental Geology EDFL 4212 Literacy in the Disciplines I EDFL 4973 Classroom Management in Content Areas EDFL 4974 Content Specific Assessment FLDX 3000 Field Experience in the Content Area*** STCH 4050 Science Teaching Methods*** Semester Total	Hrs 3 2 1 1 3 14

Senior Year - Fall Semester	Hrs
BIOL, CHEM, EASC, or PHYS with a lab	4
EDFL 2250 Introduction to English Language Learners and	
Culturally Responsive Pedagogy	2
EDFL 4970 Secondary Teaching & Behavioral Management	2
EDFL 4972 Literacy in the Disciplines II	2
FLDX 4970 Field Experience II in the Content Area	1
General Education	3
Semester Total	14
(All non-student teaching coursework and tests must be successfully completed by the end of this semester for enrollment in student teaching.)	

Senior Year - Spring Semester	Hrs
FLDX 4468 Student Teaching Secondary II ¹⁰	4
FLDX 4595 Student Teaching Secondary I	5
STCH 4080 Teaching Secondary Science	3
Semester Total	12

Earth Science Major, Area 1: Standard Earth Science Certificate; B.S. in Ed. Degree - 121 hours

- *AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective, however this major does not require any free choice electives.
- **This course is offered in alternate Spring semesters.
- ***These courses must be taken concurrently.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- The Missouri General Education Assessment (MoGEA) is an exam required of all Teacher Education students. Students must pass all areas of the MoGEA for admission to the Teacher Education Program. Students should take and successfully complete the MoGEA before completion of their sophomore year (60 earned hours). See your academic advisor to discuss the classes needed to prepare for the exam.
- Teacher Education candidates must take the appropriate Missouri Content Assessment (MoCA) for their certification area before they can student teach, and must pass it in order to be recommended for certification. Information and registration is available on the MEGA website: http://www.mo.nesinc.com/.
- See www.ucmo.edu/cert for statement and information (including application) on admission to teacher education. Full admission
 is required before student teaching and enrollment in professional education classes. The application for student teaching is due
 approximately one year in advance.

Earth Science Major, Area 2: Earth Science - Unified Science Certificate; B.S. in Ed. Degree (41-280)

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester EASC 1004 Introduction to Geology (GE) ENGL 1020 Composition I (GE) MATH 1111, 1131, 1150, or 1151 General Education Semester Total AE 1400 University Foundations*	Hrs 4 3-5 6 16-18 1	Freshman Year - Spring Semester CHEM 1131 General Chemistry I (GE) EASC 1114 or GEOG 1114 Weather and Climate ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) HIST 1350 or HIST 1351 History of the United States (GE) General Education Managing Information Semester Total	Hrs 5 4 3 2 17
Sophomore Year - Fall Semester CHEM 1132 General Chemistry II EDFL 2100 Introduction to the Teaching Profession FLDX 2150 Introductory Field Experience POLS 1510 American Government (GE) STCH 3020 Science and Engineering Practices Semester Total	Hrs 5 3 1 3 3 1 5	Sophomore Year - Spring Semester EASC 2200 Historical Geology** EASC 3112 Astronomy EDFL 2240 Educational Psychology (GE) EDSP 2100 Education of Exceptional Child PHYS 1101 College Physics I or PHYS 2121 University Physics I Semester Total (Successfully complete MoGEA exam by end of this semester)	Hrs 4 3 3 4-5 17-18
Junior Year - Fall Semester BIOL 1111 Plant Biology EASC 3115 Oceanography EASC Major Elective EDFL 4210 Introduction to Content Area Literacy PHYS 1102 College Physics II or PHYS 2122 University Physics II Semester Total	Hrs 4 3-4 2 4-5 16-18	Junior Year - Spring Semester BIOL 4102 Evolution EASC 3010 Environmental Geology EDFL 4212 Literacy in the Disciplines I EDFL 4973 Classroom Management in Content Areas EDFL 4974 Content Specific Assessment FLDX 3000 Field Experience in the Content Area*** STCH 4050 Science Teaching Methods*** Semester Total	Hrs 3 2 1 1 3 14
Junior Year - Summer Semester PSY 4230 Psychology of Adolescence General Education Semester Total	Hrs 3 6 9		
 Senior Year - Fall Semester BIOL 1112 Animal Biology EDFL 2250 Introduction to English Language Learners and Culturally Responsive Pedagogy EDFL 4970 Secondary Teaching & Behavioral Management EDFL 4972 Literacy in the Disciplines II FLDX 4970 Field Experience II in the Content Area General Education Semester Total 	Hrs 4 2 2 1 3 14	Senior Year - Spring Semester FLDX 4468 Student Teaching Secondary II ¹⁰ FLDX 4595 Student Teaching Secondary I STCH 4080 Teaching Secondary Science Semester Total (All non-student teaching coursework and tests must be successfully completed by the start of this semester for enrollment in student teaching.)	Hrs 4 5 3 12

Earth Science Major, Area 2: Earth Science - Unified Science Certificate; B.S. in Ed. Degree - 130-135 hours

• *AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective, however this major does not require any free choice electives.

- **This course is offered in alternate Spring semesters.
- ***These courses must be taken concurrently.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- The Missouri General Education Assessment (MoGEA) is an exam required of all Teacher Education students. Students must pass all
 areas of the MoGEA for admission to the Teacher Education Program. Students should take and successfully complete the MoGEA before
 completion of their sophomore year (60 earned hours). See your academic advisor to discuss the classes needed to prepare for the exam.
- Teacher Education candidates must take the appropriate Missouri Content Assessment (MoCA) for their certification area before they can student teach, and must pass it in order to be recommended for certification. Information and registration is available on the MEGA website: http://www.mo.nesinc.com/.
- See www.ucmo.edu/cert for statement and information (including application) on admission to teacher education. Full admission is required before student teaching and enrollment in professional education classes. The application for student teaching is due approximately one year in advance.

Economics Major, B.S.B.A. Degree (46-611)

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester CIS 1600 Business Information Management (GE)* ECON 1010 Principles of Macroeconomics (GE)* ENGL 1020 Composition I (GE) MATH 11111 College Algebra (GE)* General Education Semester Total AE 1400 or BADM 1400 University Foundations**	Hrs 3 3 3 3 3 3 15 1	 Freshman Year - Spring Semester COMM 1000 Public Speaking or COMM 1050 Fundamentals of Oral Communication Competency (GE) ECON 1011 Principles of Microeconomics* ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) General Education Semester Total 	Hrs 3 3 6 15
Sophomore Year - Fall Semester ACCT 2101 Principles of Financial Accounting * BLAW 2720 Legal Environment of Business * General Education Semester Total	Hrs 3 3 9 15	Sophomore Year - Spring Semester ACCT 2102 Principles of Managerial Accounting* FIN 2801 Business Statistics 1* General Education Free Choice Electives Semester Total Note: Complete all B.S.B.A. admission requirements.*	Hrs 3 7 2 15
Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
ECON 3010 Intermediate Macroeconomics (fall only)	3	CIS 3630 Management Information Systems	3
FIN 3801 Business Statistics II	3	ECON 3030 Intermediate Microeconomics	3
FIN 3850 Principles of Finance	3	MGT 3325 Business Communication	3
MGT 3315 Management of Organizations	3	MGT 3360 Supply Chain and Operations Management	3
Free Choice Electives	3	MKT 3405 Marketing Policy	3
Semester Total	15	Semester Total	15
Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
MGT 4357 Organizational Policy and Strategy ¹⁰	3	ECON 4000 Senior Seminar in Economics	3
ECON Major Electives***	6	ECON Major Electives***	6
Free Choice Elective	6	Free Choice Electives	6
Semester Total	15	Semester Total	15

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

- *Students in this major must complete eight preadmission courses with a grade of C or higher and must obtain a 2.25 cumulative GPA and a 2.25 in these specific courses, for admission to the degree program. These courses are recommended for completion during the freshman and sophomore years. These courses are indicated with an (*).
- **AE 1400 and BADM 1400 (1 hr.) are free choice electives and are highly recommended for academic success. If AE 1400 or BADM 1400 is chosen, 1 less hour of free choice electives will be needed.
- ***Some ECON major electives are offered fall or spring semester only, or are only taught online check with the department for course offerings. Students may choose from the following ECON prefix classes: 3020, 3035, 3065, 4010, 4020, 4050, 4054, 4060, 4065, 4075, and 4080. Some of these courses are only offered online as part of the Missouri Association for Collaboration in Economics (MACE). See the Undergraduate Catalog for more information.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- A 2.25 cumulative GPA is required for graduation in this major.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

Electronics Technology Major (Area 1 Electrical/Electronic Communication Technology), B.S. Degree (43-01221)

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester ENGL 1020 Composition I (GE) ET 1026 DC Circuit Analysis* ET 1050 Digital Principles & Applications* MATH 1111 College Algebra (GE) General Education Managing Information Semester Total AE 1400 University Foundations**	Hrs 3 4 3 2 16 1	Freshman Year - Spring Semester CTE 3060 Technical Writing (GE) ET 1027 AC Circuit Analysis* ET 2048 Active Electronic Devices* MATH 1112 College Trigonometry or TECH 1042 Technical Mathematics II Semester Total	Hrs 3 4 2-3 12-13
Sophomore Year - Fall Semester CHEM 1103 Introduction to the Sciences: Chemistry (GE) ET 2060 Microprocessors: Theory & Applications* ET 3020 Circuit Analysis & Implementation* ¹⁰ MATH 1131 Applied Calculus or TECH 2040 Calculus for Technology Semester Total	Hrs 3 4 4 3 14	Sophomore Year - Spring Semester COMM 1000 Public Speaking (GE) ET 2065 Computer Programming for Electronics Technology* PHYS 1104 Introduction to the Sciences: Physics (GE) General Education Semester Total	Hrs 3 3 4 3 13
Junior Year - Fall Semester ET 3041 Communication Systems* MGT 3315 Management of Organizations or INDM 4210 Industrial Management Departmentally Approved Area 1 Management Elective# General Education Semester Total	Hrs 3 3 6 15	Junior Year - Spring Semester ET 3014 Analog-Digital Circuitry* ENGT 4110 Engineering Technology Problem Solving or CTE 3116 Creative Thinking for a Better World (GE) Departmentally Approved Area 1 Electives*** General Education Semester Total	Hrs 4 3 6 16
Junior Year - Summer Semester SOT 3022 Internship in Technology Semester Total	Hrs 3 3		
Senior Year - Fall Semester ENGT 4520 Robotics and Automation ET 3017 Programmable Logic Controllers* Departmentally Approved Area 1 Elective*** General Education Free Choice Elective Semester Total	Hrs 3 4 3 3 3 16	Senior Year - Spring Semester Departmentally Approved Area 1 Elective*** General Education (not needed if CTE 3116 chosen above) Free Choice Electives (6 hours needed if CTE 3116 chosen) Semester Total	Hrs 8-9 0-3 3-6 14-15

Electronics Technology Major (Area 1 Electrical/Electronic Communication Technology) B.S. Degree - 120 hours

- *This class is only offered during the semester indicated.
- ** AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- ***See department chairperson for appropriate choices for the Departmentally Approved Area 1 Electives. Fourteen to fifteen hours
 are required, at least two hours must be at the upper-level (3000/4000). The number of electives needed will depend on the choice
 made between MATH 1112 and TECH 2040. The area hours must total 44 credits.
- #See department chairperson for appropriate choices for the Management Elective.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

Electronics Technology Major (Area 2 Computer/Networking Electronics Technology) B.S. Degree (43-02221)

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester ENGL 1020 Composition I (GE) ET 1026 DC Circuit Analysis* ET 1050 Digital Principles & Applications* MATH 1111 College Algebra (GE) General Education Managing Information Semester Total AE 1400 University Foundations**	Hrs 3 4 3 2 16 1	Freshman Year - Spring Semester ET 1027 AC Circuit Analysis* ET 2048 Active Electronic Devices* NET 1058 Computer Technologies* General Education Semester Total	Hrs 3 4 3 3 13
Sophomore Year - Fall Semester COMM 1000 Public Speaking (GE) CHEM 1103 Introduction to the Sciences: Chemistry (GE) ET 2060 Microprocessors: Theory & Applications* NET 1060 Introduction to Networks* NET 1061 Routing and Switching Essentials * Semester Total	Hrs 3 3 4 3 3 16	Sophomore Year - Spring Semester ET 2065 Computer Programming For Electronics Technology* NET 2060 Scaling Networks* NET 2061 Connecting Networks* PHYS 1104 Introduction to the Sciences: Physics (GE) General Education Semester Total	Hrs 3 3 4 3 16
Junior Year - Fall Semester CTE 3060 Technical Writing (GE) NET 4060 Advanced Network Routing* Area 2 Major Departmentally Approved Elective# General Education Semester Total	Hrs 3 4 6 16	Junior Year - Spring Semester ENGT 4110 Engineering Technology Problem Solving or CTE 3116 Creative Thinking for a Better World (GE) NET 3068 Network Security I NET 4040 Fundamentals of Network Operating Systems or NET 3000 Fundamentals of Wireless Networks*** General Education Semester Total	Hrs 3 4 3 3 13
Junior Year - Summer Semester SOT 3022 Internship in Technology Semester Total	Hrs ३ 3		
 Senior Year - Fall Semester NET 4042 Network Servers and Services or NET 3062 Network Design*** NET 4062 Advanced Switching* Area 2 Major Departmentally Approved Elective# General Education (only 3 needed if CTE 3116 chosen) Free Choice Electives (3 hours needed if CTE 3116 chosen) Semester Total 	Hrs 3 3 3-6 0 or 3 15	 Senior Year - Spring Semester NET 4043 Network Servers and Infrastructure or NET 4064 Advanced Network Design*** NET 4063 Network Support*¹⁰ Free Choice Electives Semester Total 	Hrs 3 6 12

Electronics Technology Major (Area 2 Computer/Networking Electronics Technology) B.S. Degree - 120 hours

- *This class is only offered during the semester indicated.
- **AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- ***This major requires a nine hour set of NET courses. The two options include: NET 4040, 4042, and 4043 OR NET 3000, 3062, and 4064.
- #See department chairperson for appropriate choices for the Departmentally Approved Elective. Seven hours are required.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

Semester Total

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

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Freshman Year - Fall Semester	Hrs	Freshman Year - Spring Semester	Hrs
ENGL 1020 Composition I (GE)	3	ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE)	3
MATH 1620 Contemporary Math (GE)	3	HIST 1350 or 1351 History of the United States (GE)	3
POLS 1510 American Government (GE)	3	MATH 1820 Introduction to Mathematical Modeling (GE)	3
General Education	6	General Education Science w/lab	4
Semester Total	15	General Education Managing Information	2
		Semester Total	15

Sophomore Year - Fall Semester D&N 2310 Early Childhood Nutrition & Health ECEL 2610 Life & Earth Science for Teachers EDFL 2100 Introduction to the Teaching Profession FLDX 2150 Introductory Field Experience EDFL 2240 Educational Psychology (GE) EDSP 2100 Education of the Exceptional Child General Education Semester Total	Hrs 2 3 1 3 3 3 3 1 8	 Sophomore Year - Spring Semester ECEL 2110 Diversity and Social Justice (GE) ECEL 2830 Early Childhood Principles and Observation ECEL 2850 Int. of Arts & Movement in EC and Elem. Class. EDFL 2250 Introduction to English Language Learners and Culturally Responsive Pedagogy EDFL 3410 Children's Literature MATH 2820 Elem. Math from an Advanced Perspective Semester Total (Successfully complete MoGEA exam by end of this semester) 	Hrs 3 3 3 2 2 2 3 16
Sophomore Year - Summer Semester CFD 1220 Child Development or PSY 2220 Child Psycholo or PSY 3220 Lifespan Development General Education Semester Total	Hrs ^{Dgy} 3 3 6		
Junior Year - Fall Semester Junior Block 1: Methods for the Early Learner (PreK-K) ECEL 3100 Early Childhood Assessment and Screening ECEL 3150 Early Childhood Practicum ECEL 3300 Literacy and Communication Arts for EC ECEL 3400 Language Development ECEL 3500 Social Studies for Early Childhood ECEL 3600 Science for Early Childhood ECEL 3800 Math for Early Childhood ECEL 2510 Social Studies for Teaching Primary Grades ECEL 2900 Technology in Education Seminar I Semester Total	Hrs 2 2 1 2 1 1 3 1 1 4	Junior Year - Spring Semester Junior Block 2: Methods for the Young Learner (Grades 1-3) ECEL 3151 Young Learner Practicum (Grades 1-3) ECEL 3310 Literacy and Communication Arts for the YL ECEL 3510 Social Studies and Econ. for the Young Learner ECEL 3610 Science for the Young Learner MATH 3810 Math for the Young Learner CFD 3250 Org. & Admin. of Programs for Young Children ECEL 2901 Technology in Education Seminar II EDSP 3150 Community & Family Resources EDSP 3151 Community & Family Resources Practicum Semester Total	Hrs 2 2 1 1 2 3 1 2 1 1 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Senior Year - Fall Semester Senior Block 1: Senior Experience ECEL 4120 Curriculum Design and Assessment ECEL 4140 Communication Arts Integration ECEL 4400 Classroom Management & Interactions MATH 4800 Curriculum Design and Assessment in Math	Hrs 3 5 3 2	Senior Year - Spring Semester* ECEL 4150 Student Teaching Professional Seminar FLDX 4493 Student Teaching Early Childhood FLDX 4496 Student Teaching Elementary II ¹⁰ Semester Total (All non-student teaching coursework and tests must be	Hrs 2 6 4 12

ECEL 3468 Community, School, & Family Connections successfully completed before this semester for enrollment in 3 16 student teaching.)

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

• *The courses listed for this semester constitute the professional education (student teaching) block. The student should not take any other courses during this semester.

• 10This course fulfills Competency 10 - Integration in the General Education program. The hours count in the major, not in general education.

- Courses in italics in the junior and senior years are the Clinical Pathway blocks. The department will enroll you in these courses, and you will self-enroll in any non-CP course you plan to take in that semester. Students pursuing the double certification clinical pathways option will have the opportunity to complete all three Junior Blocks. Please see your Academic Advisor for course planning assistance.
- The Missouri General Education Assessment (MoGEA) is an exam required of all Teacher Education students. Students must pass all areas of the MoGEA for admission to the Teacher Education Program. Students should take and successfully complete the MoGEA before completion of their sophomore year (60 earned hours). See your academic advisor to discuss the classes needed to prepare for the exam.
- Teacher Education candidates must take the appropriate Missouri Content Assessment (MoCA) for their certification area before they can student teach, and must pass it in order to be recommended for certification. Information and registration is available on the MEGA website: http://www.mo.nesinc.com/.
- See www.ucmo.edu/cert for statement and information (including application) on admission to teacher education. Full admission is required before enrollment in professional education classes and student teaching. The application for student teaching is due approximately one year in advance

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

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester	Hrs	Freshman Year - Spring Semester	Hrs
ENGL 1020 Composition I (GE)	3	ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE)	3
MATH 1620 Contemporary Math (GE)	3	HIST 1350 or 1351 History of the United States (GE)	3
POLS 1510 American Government (GE)	3	MATH 1820 Introduction to Mathematical Modeling (GE)	3
General Education	6	General Education Science w/lab	4
Semester Total	15	General Education Managing Information	2
		Somostor Total	15

Sophomore Year - Fall Semester	Hrs
ECEL 2610 Life & Earth Science for Teachers	3
EDFL 2100 Introduction to the Teaching Profession	3
FLDX 2150 Introductory Field Experience	1
EDFL 2240 Educational Psychology (GE)	3
EDSP 2100 Education of the Exceptional Child	3
General Education	3
Semester Total	16

Sophomore Year - Summer Semester	Hrs
CFD 1220 Child Development or PSY 2220 Child Psychology	/
or PSY 3220 Lifespan Development	3
General Education	3
Semester Total	6

Junior Year - Fall Semester CD 2000 The Bases of Speech and Language ECEL 2510 Social Studies for Teaching Primary Grades ECEL 2900 Technology in Education Seminar I ECEL 3220 The Teaching of Language Arts ECEL 3430 Strat, for Teaching Elem. Social Studies & Science ECEL 3850 Development & Learning Through Play ECEL 3851 Practicum in Early Childhood MATH 3800 Teaching & Learning Numbers and Operations Semester Total	Hrs 2 3 1 3 2 3 1 3 1 8
Senior Year - Fall Semester Senior Block 1: Senior Experience ECEL 4120 Curriculum Design and Assessment ECEL 4140 Communication Arts Integration ECEL 4400 Classroom Management & Interactions	Hrs 3 5 3
MATH 4800 Curriculum Design and Assessment in Math	2

ECEL 3468 Community, School, & Family Connections

(All non-student teaching coursework and tests must be successfully completed by the end of this semester for

Semester Total

enrollment in student teaching.)

INGL TUSU Composition II or CTE SUGU IECH. WITHING (GE)	3	
IIST 1350 or 1351 History of the United States (GE)	3	
NATH 1820 Introduction to Mathematical Modeling (GE)	3	
General Education Science w/lab	4	
General Education Managing Information	2	
emester Total	15	
ophomore Year - Spring Semester	Hrs	

Sopnomore lear - Spring Semester	nrs
D&N 2310 Early Childhood Nutrition & Health	2
ECEL 2110 Diversity and Social Justice (GE)	3
ECEL 2830 Early Childhood Principles and Observation	3
ECEL 2850 Int. of Arts & Movement in EC and Elem. Class.	3
EDFL 2250 Introduction to English Language Learners and	
Culturally Responsive Pedagogy	2
EDFL 3410 Children's Literature	2
MATH 2820 Elem. Math from an Advanced Perspective	3
Semester Total	18
(Successfully complete MoGEA exam by end of this semester)	

Junior Year - Spring Semester	Hrs
CFD 3250 Org. & Admin. of Programs for Young Childr	en 3
ECEL 2901 Technology in Education Seminar II	1
EDFL 3210 Methods of Reading Instruction	3
EDSP 3150 Community & Family Resources	2
EDSP 3151 Community & Family Resources Practicum	1
EDSP 4370 Screening, Diagnosing, Prescribing Instructio	on 3
MATH 3801 Teaching & Learning Geometry & Measurer	
Semester Total	16

Senior Year - Spring Semester*	Hrs
ECEL 4150 Student Teaching Professional Seminar	2
FLDX 4493 Student Teaching Early Childhood	6
FLDX 4496 Student Teaching Elementary II ¹⁰	4
Semester Total	12

Elementary Education Major (Birth - Grade 3), Blended Pathway, B.S. in Ed. Degree - 132 hours

3

16

- *The courses listed for this semester constitute the professional education (student teaching) block. The student should not take any other courses during this semester.
- 10This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- The Missouri General Education Assessment (MoGEA) is an exam required of all Teacher Education students. Students must pass all areas of the MoGEA for admission to the Teacher Education Program. Students should take and successfully complete the MoGEA before completion of their sophomore year (60 earned hours). See your academic advisor to discuss the classes needed to prepare for the exam.
- Teacher Education candidates must take the appropriate Missouri Content Assessment (MoCA) for their certification area before they can student teach, and must pass it in order to be recommended for certification. Information and registration is available on the MEGA website: http://www.mo.nesinc.com/.
- See www.ucmo.edu/cert for statement and information (including application) on admission to teacher education. Full admission is required before enrollment in professional education classes and student teaching. The application for student teaching is due approximately one year in advance.

enrollment in student teaching.)

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

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester ENGL 1020 Composition I (GE) MATH 1620 Contemporary Math (GE) POLS 1510 American Government (GE) General Education Semester Total	Hrs 3 3 6 15	Freshman Year - Spring Semester ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) HIST 1350 or 1351 History of the United States (GE) MATH 1820 Introduction to Mathematical Modeling (GE) General Education Science w/lab General Education Managing Information Semester Total	Hrs 3 3 4 2 15
Sophomore Year - Fall Semester ECEL 2110 Diversity and Social Justice (GE) ECEL 2610 Life & Earth Science for Teachers EDFL 2240 Educational Psychology (GE) EDFL 2100 Introduction to the Teaching Profession FLDX 2150 Introductory Field Experience EDSP 2100 Education of Exceptional Child Semester Total	Hrs 3 3 3 1 3 16	 Sophomore Year - Spring Semester ECEL 2620 Physical Science & Engin. Design for Teachers ECEL 2850 Integr. of Arts & Movement in EC & Elem. Class. EDFL 2250 Introduction to English Language Learners and Culturally Responsive Pedagogy MATH 2820 Elem. Math from an Advanced Perspective General Education Semester Total (Successfully complete MoGEA exam by end of this semester, 	2 3 6 17
Junior Year - Fall Semester Junior Block II: Methods for the Young Learner (Grades 1-3) ECEL 3151 Young Learner Practicum (Grades 1-3) ECEL 3510 Social Studies and Communication Arts for the YL ECEL 3510 Social Studies and Econ. for the Young Learner ECEL 3610 Science for the Young Learner MATH 3810 Math for the Young Learner CFD 1220 Child Development or PSY 2220 Child Psycholog or PSY 3220 Lifespan Development ECEL 2510 Social Studies for Teaching Primary Grades ECEL 2900 Technology in Education Seminar I EDFL 3410 Children's Literature Semester Total	Hrs 2 2 1 1 2 3 3 1 2 17	Junior Year - Spring Semester Junior Block III: Methods for the Interm. Learner (Grades 4-6) ECEL 3152 Intermediate Learner Practicum Grades 4-6 ECEL 3320 Literacy and Communication Arts for the IL ECEL 3520 Social Studies and Economics for the IL ECEL 3620 Science for the Intermediate Learner MATH 3820 Mathematics for the Intermediate Learner ECEL 2520 Social Studies for Teaching Intermediate Grades ECEL 2901 Technology in Education Seminar II ECEL 3468 Community, School, & Family Connections Semester Total	Hrs 2 2 1 1 2 3 1 3 1 3 15
Senior Year - Fall Semester Senior Block I: Senior Experience ECEL 4120 Curriculum Design and Assessment ECEL 4140 Communication Arts Integration ECEL 4400 Classroom Management & Interactions* MATH 4800 Curriculum Design and Assessment in Math Semester Total (All non-student teaching coursework and tests must be successfully completed by the end of this semester for	Hrs 3 5 3 2 13	Senior Year - Spring Semester+ ECEL 4150 Student Teaching Professional Seminar FLDX 4495 Student Teaching Elementary I FLDX 4496 Student Teaching Elementary II ¹⁰ Semester Total	Hrs 2 6 4 12

Elementary Education Major (Grades 1 - 6), Clinical Pathway, B.S. in Ed. Degree - 120 hours

- +The courses listed for this semester constitute the professional education (student teaching) block. The student should not take any other courses during this semester.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
 Courses in italics in the junior and senior years are the Clinical Pathway blocks. The department will enroll you in these courses, and you will self-enroll in any non-CP course you plan to take in that semester. Students adding an Early Childhood Education minor clinical pathways option will have the opportunity to complete all three Junior Blocks. Please see your Academic Advisor for course planning assistance.
- The Missouri General Education Assessment (MoGEA) is an exam required of all Teacher Education students. Students must pass all areas of the MoGEA for admission to the Teacher Education Program. Students should take and successfully complete the MoGEA before completion of their sophomore year (60 earned hours). See your academic advisor to discuss the classes needed to prepare for the exam.
- Teacher Education candidates must take the appropriate Missouri Content Assessment (MoCA) for their certification area before they can student teach, and must pass it in order to be recommended for certification. Information and registration is available on the MEGA website: http://www.mo.nesinc.com/.
- See www.ucmo.edu/cert for statement and information (including application) on admission to teacher education. Full admission is required before enrollment in professional education classes and student teaching. The application for student teaching is due approximately one year in advance.

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

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester ENGL 1020 Composition I (GE) MATH 1620 Contemporary Math (GE) POLS 1510 American Government (GE) General Education Semester Total	Hrs 3 3 6 15	Freshman Year - Spring Semester ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) HIST 1350 or 1351 History of the United States (GE) MATH 1820 Introduction to Mathematical Modeling (GE) General Education Science w/lab General Education Managing Information Semester Total	Hrs 3 3 4 2 15
Sophomore Year - Fall Semester ECEL 2110 Diversity and Social Justice (GE) ECEL 2610 Life & Earth Science for Teachers EDFL 2240 Educational Psychology (GE) EDFL 2100 Introduction to the Teaching Profession FLDX 2150 Introductory Field Experience EDSP 2100 Education of Exceptional Child Semester Total	Hrs 3 3 3 1 3 16	 Sophomore Year - Spring Semester ECEL 2620 Physical Science & Engin. Design for Teachers ECEL 2850 Integr. of Arts & Movement in EC & Elem. Class. EDFL 2250 Introduction to English Language Learners and Culturally Responsive Pedagogy MATH 2820 Elem. Math from an Advanced Perspective General Education Semester Total (Successfully complete MoGEA exam by end of this semester) 	2 3 6 17
Junior Year - Fall Semester CFD 1220 Child Development or PSY 2220 Child Psycholog or PSY 3220 Lifespan Development ECEL 2510 Social Studies for Teaching Primary Grades ECEL 2900 Technology in Education Seminar I ECEL 3220 The Teaching of Language Arts ECEL 3430 Strat. for Teaching Elem. Social Studies & Science EDFL 3210 Methods of Reading Instruction EDFL 3410 Children's Literature Semester Total	3 3 1 3	Junior Year - Spring Semester ECEL 2520 Social Studies for Teaching Intermediate Grades ECEL 2901 Technology in Education Seminar II ECEL 3468 Community, School, & Family Connections EDFL 3215 Teaching Reading in Content Fields MATH 3800 Teaching and Learning Numbers & Operations MATH 3801 Teaching & Learning Geometry & Measurement Semester Total	Hrs 3 1 3 3 3 3 16
Senior Year - Fall Semester Senior Block I: Senior Experience ECEL 4120 Curriculum Design and Assessment ECEL 4140 Communication Arts Integration ECEL 4400 Classroom Management & Interactions* MATH 4800 Curriculum Design and Assessment in Math Semester Total (All non-student teaching coursework and tests must be successfully completed by the end of this semester for enrollment in student teaching.)	Hrs 3 5 3 2 13	Senior Year - Spring Semester+ ECEL 4150 Student Teaching Professional Seminar FLDX 4495 Student Teaching Elementary I FLDX 4496 Student Teaching Elementary II ¹⁰ Semester Total	Hrs 2 6 4 12

Elementary Education Major (Grades 1 - 6), Blended Pathway, B.S. in Ed. Degree - 121 hours

- +The courses listed for this semester constitute the professional education (student teaching) block. The student should not take any other courses during this semester.
- 10This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- The Missouri General Education Assessment (MoGEA) is an exam required of all Teacher Education students. Students must pass all areas of the MoGEA for admission to the Teacher Education Program. Students should take and successfully complete the MoGEA before completion of their sophomore year (60 earned hours). See your academic advisor to discuss the classes needed to prepare for the exam.
- Teacher Education candidates must take the appropriate Missouri Content Assessment (MoCA) for their certification area before they can student teach, and must pass it in order to be recommended for certification. Information and registration is available on the MEGA website: http://www.mo.nesinc.com/.
- See www.ucmo.edu/cert for statement and information (including application) on admission to teacher education. Full admission is required before enrollment in professional education classes and student teaching. The application for student teaching is due approximately one year in advance.

Engineering Technology, Option 1 (Electronics Engineering Technology) B.S. Degree (43-01282)

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester ENGL 1020 Composition I (GE) ENGT 1500 Orientation to Engineering Technology* ET 1010 Applied Electricity ET 1026 DC Circuit Analysis* MATH 1112 College Trigonometry** Semester Total	Hrs 3 1 4 2 14	Freshman Year - Spring Semester CADD 1105 Basic AutoCAD CTE 1300 Introduction to Engineering Design or CADD 1110 Fundamentals of Drafting CTE 3060 Technical Writing (GE) ENGT 1000 Principles of Engineering ET 1027 AC Circuit Analysis* MATH 1131 Applied Calculus (GE) Semester Total	Hrs 1 3 3 3 3 3 3 16
Sophomore Year - Fall Semester CIS 1600 Business Information Management (GE) ECON 1010 Principles of Macroeconomics (GE) ET 1050 Digital Principles & Applications* PHYS 1101 College Physics I (GE) Semester Total	Hrs 3 4 4 14	Sophomore Year - Spring Semester CHEM 1103 Introduction to the Sciences: Chemistry (GE) COMM 1000 Public Speaking (GE) ENGT 1501 Seminar in Engineering Technology ET 2048 Active Electronic Devices* ET 2065 Computer Programming for Electronics Tech.* Semester Total	Hrs 3 1 3 4 14
Junior Year - Fall Semester ENGT 1501 Seminar in Engineering Technology ET 2060 Microprocessors: Theory & Applications* ET 3020 Circuit Analysis & Implementation * ET 3017 Programmable Logic Controllers * General Education Semester Total	Hrs 1 4 4 3 16	Junior Year - Spring Semester ENGT 3520 Engineering Economy ENGT 4580 Quality Systems ET 3014 Analog-Digital Circuitry* General Education Semester Total	Hrs 3 4 6 16
Junior Year - Summer Semester SOT 3022 Internship in Technology Semester Total	Hrs 1 1		
Senior Year - Fall Semester ENGT 2600 Lean Enterprises ENGT 4520 Robotics and Automation ET 3041 Communication Systems* NET 1060 Introduction to Networks General Education Semester Total	Hrs 3 3 3 3 3 3 15	Senior Year - Spring Semester ENGT 3530 Inspection and Quality Control ENGT 4110 Engineering Technology Problem Solving ¹⁰ CMGT 3320 Principles of Construction Management or INDM 4250 Project Management General Education Semester Total	Hrs 3 3 3 6 15

Engineering Technology, Option 1 (Electronics Engineering Technology) B.S. Degree - 121 hours

- *This class is only offered during the semester indicated.
- **Enrollment in MATH 1112 assumes you have met the prerequisite MATH requirements in your high school curriculum. If you have not met these requirements MATH 1111 or proper MATH placement will be required per University planned placement guidelines.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

Engineering Technology, Option 2 (Mechanical Engineering Technology - Product Design) B.S. Degree (43-02282)

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester CADD 1105 Basic AutoCAD CADD 1110 Fundamentals of Drafting+ or CTE 1300 Introduction to Engineering Design CADD 1170 Introduction to Computer-Aided Drafting CIS 1600 Business Information Management (GE) ENGT 1000 Principles of Engineering ENGT 1500 Orientation to Engineering Technology* MATH 1112 College Trigonometry** Semester Total	Hrs 1 3 2 3 3 1 2 15	Freshman Year - Spring Semester CADD 2120 Machine Drafting * + ENGL 1020 Composition 1 (GE) ENGT 1510 Introduction to Manufacturing Processes * ET 1010 Applied Electricity MATH 1131 Applied Calculus (GE) Semester Total	Hrs 3 3 4 3 16
Sophomore Year - Fall Semester CMGT 2020 Statics ENGT 2040 Engineering Materials Science ENGT 2530 Machine Tool Technology PHYS 1101 College Physics I (GE) Semester Total	Hrs 3 4 3 4 14	Sophomore Year - Spring Semester CADD 3171 CAD & Design for Engineering Technology+ CMGT 3020 Applied Strength of Materials COMM 1000 Public Speaking (GE) ECON 1010 Principles of Macroeconomics (GE) ENGT 1501 Seminar in Engineering Technology General Education Semester Total	Hrs 3 3 3 1 3 16
Junior Year - Fall Semester CADD 4171 Production Design/Drafting* CTE 3060 Technical Writing (GE) ENGT 1501 Seminar in Engineering Technology ENGT 2600 Lean Enterprises General Education Semester Total	Hrs 3 1 3 6 16	 Junior Year - Spring Semester CADD 4124 Geometric Dimensioning & Tolerancing Principle for Engineering Technology* CADD 4174 Machine Design* CHEM 1103 Introduction to the Sciences: Chemistry (GE) ENGT 1120 Welding ENGT 3562 Computer Numerical Control (CNC) Semester Total 	Hrs es 3 3 3 3 3 3 15
Junior Year - Summer Semester SOT 3022 Internship in Technology Semester Total	Hrs] 1		
Senior Year - Fall Semester ATM 4032 Hydraulics & Pneumatics CMGT 3320 Principles of Construction Management or INDM 4250 Project Management ENGT 3520 Engineering Economy General Education Semester Total	Hrs 3 3 6 15	Senior Year - Spring Semester ENGT 3530 Inspection and Quality Control ENGT 4110 Engineering Technology Problem Solving ¹⁰ ENGT 4580 Quality Systems Departmentally Approved Option 2 Elective*** General Education Semester Total	Hrs 3 3 1 3 1 3

Engineering Technology, Option 2 (Mechanical Engineering Technology - Product Design) B.S. Degree - 121 hours

- +A grade of C or higher is required in these courses for enrollment in future CADD courses.
- *This class is only offered during the semester indicated.
- **Enrollment in MATH 1112 assumes you have met the prerequisite MATH requirements in your high school curriculum. If you have not met these requirements MATH 1111 or proper MATH placement will be required per University planned placement guidelines.
- •***See departmental advisor for course recommendations.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

Engineering Technology, Option 3 (Industrial Engineering Technology), B.S. Degree (43-03282)

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester ENGL 1020 Composition I (GE) ENGT 1000 Principles of Engineering ENGT 1500 Orientation to Engineering Technology* ENGT 1510 Introduction to Manufacturing Processes MATH 1112 College Trigonometry** General Education Semester Total	Hrs 3 1 3 2 3 15	 Freshman Year - Spring Semester CADD 1105 Basic AutoCAD CADD 1110 Fundamentals of Drafting or CTE 1300 Introduction to Engineering Design CTE 3060 Technical Writing (GE) ENGT 2040 Engineering Materials Science ENGT 2530 Machine Tool Technology MATH 1131 Applied Calculus (GE) Semester Total 	Hrs 1 3 4 3 3 17
Sophomore Year - Fall Semester COMM 1000 Public Speaking (GE) ENGT 1120 Welding ET 1010 Applied Electricity PHYS 1101 College Physics I (GE) Semester Total	Hrs 3 4 4 14	Sophomore Year - Spring Semester CADD 2120 Machine Drafting+ (prerequisite of CADD 1170 will be waived) CHEM 1103 Introduction to the Sciences: Chemistry (GE) ECON 1010 Principles of Macroeconomics (GE) ENGT 1501 Seminar in Engineering Technology ENGT 3530 Inspection & Quality Control* ENGT 3562 Computer Numerical Control (CNC)* Semester Total	Hrs 3 3 1 3 3 1 3 16
Junior Year - Fall Semester CIS 1600 Business Information Management (GE) ENGT 1501 Seminar in Engineering Technology ENGT 2600 Lean Enterprises INDM 4240 Facilities Engineering General Education Semester Total	Hrs 3 1 3 3 3 13	Junior Year - Spring Semester CADD 4124 Geometric Dimensioning & Tolerancing Principle for Engineering Technology ENGT 3120 Advanced Welding Technology I ENGT 3520 Engineering Economy General Education Semester Total	Hrs 3 3 3 6 15
Junior Year - Summer Semester SOT 3022 Internship in Technology Semester Total	Hrs 1		
Senior Year - Fall Semester ATM 4032 Hydraulics & Pneumatics CMGT 3320 Principles of Construction Management or INDM 4250 Project Management ENGT 4520 Robotics & Automation* ENGT 4590 Computer Integrated Manufacturing (CIM)* General Education Semester Total	Hrs 3 3 3 3 3 15	Senior Year - Spring Semester ENGT 4110 Engineering Technology Problem Solving ^{*10} ENGT 4580 Quality Systems ENGT 4750 Lean Six Sigma ET 3017 Programmable Logic Controllers General Education Semester Total	Hrs 3 3 4 3 16

Engineering Technology, Option 3 (Industrial Engineering Technology), B.S. Degree - 122 hours

- *This class is only offered during the semester indicated.
- **Enrollment in MATH 1112 assumes you have met the prerequisite MATH requirements in your high school curriculum. If you have not met these requirements MATH 1111 or proper MATH placement will be required per University planned placement guidelines.
- +A grade of C or higher is required in these courses for enrollment in future CADD courses.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

Engineering Technology, Option 4 (Civil Engineering Tech., Infrastructure Project Admin. Emphasis) B.S. Degree (43-04282)

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester CADD 1105 Basic AutoCAD CADD 1110 Fundamentals of Drafting or CTE 1300 Introduction to Engineering Design CADD 1170 Introduction to Computer-Aided Drafting CIS 1600 Business Information Management (GE) ENGT 1000 Principles of Engineering ENGT 1500 Orientation to Engineering Technology* MATH 1112 College Trigonometry** Semester Total	Hrs 1 3 2 3 1 2 15	Freshman Year - Spring Semester COMM 1000 Public Speaking (GE) EASC 1004 Introduction to Geology (GE) ENGL 1020 Composition I (GE) ET 1010 Applied Electricity MATH 1131 Applied Calculus (GE) Semester Total	Hrs 3 4 3 4 3 17
Sophomore Year - Fall Semester CMGT 2020 Statics CTE 3060 Technical Writing (GE) ENGT 2040 Engineering Material Sciences PHYS 1101 College Physics I (GE) Semester Total	Hrs 3 4 4 14	Sophomore Year - Spring Semester CADD 2160 Structural Drafting CMGT 2325 Project Cost Estimating CMGT 3020 Applied Strengths of Materials EASC 2100 Engineering Geology ENGT 1501 Seminar in Engineering Technology Semester Total	Hrs 3 3 4 1 14

Junior Year - Fall Semester CADD 2171 Introduction to MicroStation CMGT 2340 Surveying and Construction Layout CMGT 3320 Principles of Construction Management or INDM 4250 Project Management ENGT 1501 Seminar in Engineering Technology ENGT 3520 Engineering Economy* ENGT 4140 Soils and Foundation Design* Semester Total	Hrs 3 3 1 3 3 16	Junior Year - Spring Semester CADD 3150 Civil Drafting CMGT 4380 Heavy Construction Methods and Materials ECON 1010 Principles of Macroeconomics (GE) ENGT 4120 Hydrology and Drainage Design* General Education Semester Total	Hrs 3 3 3 3 3 15
Junior Year - Summer Semester SOT 3022 Internship in Technology Semester Total	Hrs] 1		
Senior Year - Fall Semester CMGT 4310 Construction Safety ENGT 4160 Transportation Systems Design* ENGT 4180 Water and Wastewater Systems Design* General Education Semester Total	Hrs 3 3 6 15	Senior Year - Spring Semester ENGT 4110 Engineering Technology Problem Solving ¹⁰ ENGT 4580 Quality Systems General Education Semester Total	Hrs 3 9 15

Engineering Technology, Option 4 (Civil Engineering Technology, Infrastructure Project Administration) B.S. Degree - 122 hours

- *This class is only offered during the semester indicated.
- **Enrollment in MATH 1112 assumes you have met the prerequisite MATH requirements in your high school curriculum. If you have not
 met these requirements MATH 1111 or proper MATH placement will be required per University planned placement guidelines.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

Engineering Technology, Option 4 (Civil Engineering Technology, Design Emphasis) B.S. Degree (43-04282)

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester CADD 1105 Basic AutoCAD CADD 1110 Fundamentals of Drafting or CTE 1300 Introduction to Engineering Design CADD 1170 Introduction to Computer-Aided Drafting CIS 1600 Business Information Management (GE) ENGT 1000 Principles of Engineering ENGT 1500 Orientation to Engineering Technology* MATH 1112 College Trigonometry** Semester Total	Hrs 1 3 2 3 1 2 15	Freshman Year - Spring Semester COMM 1000 Public Speaking (GE) EASC 1004 Introduction to Geology (GE) ECON 1010 Principles of Macroeconomics (GE) ENGL 1020 Composition I (GE) MATH 1131 Applied Calculus (GE) Semester Total	Hrs 3 4 3 3 16
Sophomore Year - Fall Semester CMGT 2020 Statics CTE 3060 Technical Writing (GE) PHYS 1101 College Physics I (GE) General Education Semester Total	Hrs 3 4 6 16	Sophomore Year - Spring Semester CADD 2160 Structural Drafting CADD 3150 Civil Drafting CMGT 2325 Project Cost Estimating CMGT 3020 Applied Strengths of Materials EASC 2100 Engineering Geology Semester Total	Hrs 3 3 3 4 16

Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
CADD 2171 Introduction to MicroStation	3	CADD 3175 Advanced MicroStation	3
CADD 4150 Applied Civil Design/Drafting	3	CADD 4162 Commercial Architecture Design/Drafting (BIM)	3
CMGT 2340 Surveying and Construction Layout	3	CMGT 3350 Building Structures: Methods and Materials	3
CMGT 3320 Principles of Construction Management or		ENGT 1501 Seminar in Engineering Technology	1
INDM 4250 Project Management	3	ENGT 4120 Hydrology and Drainage Design*	3
ENGT 1501 Seminar in Engineering Technology	1	ET 1010 Applied Electricity	4
ENGT 4140 Soils and Foundation Design*	3	Semester Total	17
Semester Total	16	Jemesler loldi	.,
Junior Year - Summer Semester SOT 3022 Internship in Technology Semester Total	Hrs 1 1		
Senior Year - Fall Semester	Hrs 3	Senior Year - Spring Semester	Hrs 3
ENGT 3520 Engineering Economy*	-	ENGT 4110 Engineering Technology Problem Solving ¹⁰ ENGT 4580 Quality Systems	3
ENGT 4160 Transportation Systems Design*	3 3	General Education	3
GEOG 4220 Geographic Information Systems I*	-		0
General Education	6	Semester Total	12
Semester Total	15		

Engineering Technology, Option 4 (Civil Engineering Technology, Design Emphasis) B.S. Degree -124 hours

- *This class is only offered during the semester indicated.
- **Enrollment in MATH 1112 assumes you have met the prerequisite MATH requirements in your high school curriculum. If you have not met these requirements MATH 1111 or proper MATH placement will be required per University planned placement guidelines.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

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

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester ENGL 1020 Composition I (GE) Modern Language Requirement* General Education Semester Total AE 1400 University Foundations**	Hrs 3 9 15 1	Freshman Year - Spring Semester ENGL 1030 Composition II (GE) Modern Language Requirement* General Education Semester Total	Hrs 3 9 15
Sophomore Year - Fall Semester ENGL 2010 Introduction to Reading Poetry and Drama (GE) ENGL 2020 Introduction to Reading Fiction (GE) General Education Semester Total	Hrs 3 3 9 15	Sophomore Year - Spring Semester ENGL 4360 Shakespeare ENGL Elective (if ENGL 2220 is chosen, this can also count in the BA Modern Language Requirement*) Minor Coursework General Education Free Choice Elective Semester Total	Hrs 3 3 3 3 3 15
Junior Year - Fall Semester ENGL 3240 Critical Approaches to Literature ENGL 4XXX Distribution Area Course Selection*** Minor Coursework Free Choice Electives Semester Total	Hrs 3 3 6 15	Junior Year - Spring Semester ENGL 4XXX Distribution Area Course Selection*** Minor Coursework Free Choice Elective Semester Total	Hrs 6 6 3 15
Senior Year - Fall Semester ENGL 4XXX Distribution Area Course Selection*** Upper-Level (3000/4000) ENGL Elective Minor Coursework Free Choice Elective Semester Total	Hrs 3 3 6 3 15	Senior Year - Spring Semester ENGL 4240 Senior Capstone in Literature ¹⁰ ENGL 4XXX Distribution Area Course Selection*** Upper-Level (3000/4000) ENGL Elective Minor Coursework Free Choice Elective Semester Total	Hrs 3 3 3 3 3 15

English Major, B.A. Degree - 120 hours

- *Refer to the Bachelor's Degree Requirements section of the catalog for the BA Modern Language Requirements. This plan is based on 6 hours of modern language and 3 hours of ENGL 2220 World Masterpieces.
- **AE 1400 is a free choice elective and is highly recommended for academic success.
- ***Students must complete 15 credit hours (5 classes) from five different areas. One course must be chosen from each of the five areas: Medieval or Renaissance Literature, 17th and 18th Century Literature, 19th Century Literature, 20th and 21st Century Literature, and Traditionally Underrepresented Literature. See the Undergraduate Catalog for the choices that fulfill this requirement.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- This guide is based on a 21 hour minor. The number of free choice electives required will depend on the minor chosen.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

UNIVERSITY OF CENTRAL MISSOURI

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

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester ENGL 1020 Composition I (GE) General Education Semester Total AE 1400 University Foundations*	Hrs 3 12 15 1	Freshman Year - Spring Semester ENGL 1030 Composition II (GE) POLS 1510 American Government (GE) General Education Math General Education Semester Total	Hrs 3 3 3 6 15
Sophomore Year - Fall Semester ENGL 2010 Introduction to Reading Poetry and Drama HIST 1350 or 1351 History of the United States (GE) (Foundations Block)# EDFL 2240 Educational Psychology# EDFL 2100 Introduction to the Teaching Profession# FLDX 2150 Introductory Field Experience# EDSP 2100 Education of the Exceptional Child# Semester Total	Hrs 3 3 3 1 3 16	Sophomore Year - Spring Semester ENGL 2020 Introduction to Reading Fiction ENGL 2830 Literature for Adolescents (spring only) ENGL 2220 World Masterpieces (GE) ENGL 3120 History of the English Language ENGL 4360 Shakespeare Semester Total (Successfully complete MoGEA exam by end of this semester)	Hrs 3 3 3 3 3 15
Junior Year - Fall Semester ENGL 3110 English Grammar (fall only) ENGL 3240 Critical Approaches to Literature Area 1-5 Electives** Upper-Level (3000-4000) English Elective Semester Total	Hrs 3 6 3 15	Junior Year - Spring Semester EDFL 2250 Introduction to English Language Learners & Culturally Responsive Pedagogy## EDFL 4210 Introduction to Content Area Literacy EDFL 4212 Literacy in the Disciplines I ENGL 3040 Advanced Rhetoric (spring only) ENGL 4974 Assessment in Secondary English/Language Arts FLDX 3000 Field Experience in the Content Area## Area 1-5 Electives** Semester Total	Hrs 2 2 2 3 1 1 6 17
Senior Year - Fall Semester EDFL 4970 Secondary Teaching & Behavioral Management ENGL 4840 Composition & Evaluation (fall only) ENGL 4972 Content Literacy in Secondary English/Lang. Art ENGL 4973 Classroom Management in Sec. English/LA FLDX 4970 Field Experience II in the Content Area PSY 4230 Psychology of Adolescence (GE) Area 1-5 Elective** Semester Total During this semester take English content exam.	Hrs 2 3 ts 2 1 1 3 3 15	Senior Year - Spring Semester*** ENGL 4890 Methods of Teaching English FLDX 4595 Student Teaching Secondary I FLDX 4468 Student Teaching Secondary II ¹⁰ Semester Total (All non-student teaching coursework and tests must be successfully completed before this semester for enrollment in student teaching.)	Hrs 3 5 4 12

English Education Major, B.S. in Ed. Degree - 120 hours

- *AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- **Students must complete 15 credit hours (5 classes) from five different areas. One course must be chosen from each of the five areas: Medieval or Renaissance Literature, 17th and 18th Century Literature, 19th Century Literature, 20th and 21st Century Literature, and Traditionally Underrepresented Literature. Within these hours, six hours must be of American Literature. See the Undergraduate Catalog for the choices that fulfill this requirement.
- ***The courses listed for this semester constitute the professional education (student teaching) block. The student should not take any other courses during this semester.
- #These four courses must be taken as a block, see your academic advisor for enrollment.
- ##These courses must be taken concurrently.
- 1ºThis course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- The Missouri General Education Assessment (MoGEA) is an exam required of all Teacher Education students. Students must pass all areas of the MoGEA for admission to the Teacher Education Program. Students should take and successfully complete the MoGEA before completion of their sophomore year (60 earned hours). See your academic advisor to discuss the classes needed to prepare for the exam.
- Teacher Education candidates must take the appropriate Missouri Content Assessment (MoCA) for their certification area before they
 can student teach, and must pass it in order to be recommended for certification. Information and registration is available on the MEGA
 website: http://www.mo.nesinc.com/.
- See www.ucmo.edu/cert for statement and information (including application) on admission to teacher education. Full admission is required before enrollment in professional education classes and student teaching. The application for student teaching is due approximately one year in advance.

Entrepreneurship and Social Enterprise Major, B.S.B.A. Degree (46-331)

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester CIS 1600 Business Information Management (GE)* ECON 1010 Principles of Macroeconomics (GE)* ENGL 1020 Composition I (GE) MATH 1111 College Algebra (GE)* General Education Semester Total AE 1400 or BADM 1400 University Foundations**	Hrs 3 3 3 3 3 3 15 1	Freshman Year - Spring Semester COMM 1000 Public Speaking or COMM 1050 Fundamentals of Oral Communication Competency (GE) ECON 1011 Principles of Microeconomics* ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE General Education Semester Total	Hrs 3 3 3 6 15
Sophomore Year - Fall Semester ACCT 2101 Principles of Financial Accounting* BLAW 2720 Legal Environment of Business* General Education# Semester Total	Hrs 3 3 9 15	Sophomore Year - Spring Semester ACCT 2102 Principles of Managerial Accounting* FIN 2801 Business Statistics I* General Education Free Choice Electives Semester Total Note: Complete all BSBA Admission	Hrs 3 7 2 15
Junior Year - Fall Semester MGT 3325 Business Communications (IBE Block-below)*** CIS 3630 Management Information Systems*** MGT 3315 Management of Organizations*** MKT 3405 Marketing Policy*** IBE Practicum (CIS 3685/MKT 3485/MGT 3385)*** Semester Total	Hrs 3 3 3 3 3 15	requirements.* Junior Year - Spring Semester ESE 3710 Entrepreneurial Business Planning ESE 3715 Entrepreneurial Business Planning Lab FIN 3801 Business Statistics II FIN 3850 Principles of Finance Free Choice Electives (internship recommended) Major Electives## Semester Total	Hrs 3 1 3 3 3 3 16
Senior Year - Fall Semester ESE 3720 Social Enterprise for Entrepreneurs (fall only) ESE 3725 Social Enterprise Lab (fall only) MGT 3360 Supply Chain and Operations Management Major Electives## Free Choice Electives (internship recommended) Semester Total	Hrs 3 1 3 3 3 13	Senior Year - Spring Semester ESE 4710 Commercialization (spring only) ESE 4715 Commercialization Lab (spring only) MGT 4357 Organizational Policy & Strategy ¹⁰ Major Electives## Free Choice Electives (internship recommended)** Semester Total	Hrs 3 1 3 3 6 16

Entrepreneurship and Social Enterprise Major, B.S.B.A. Degree - 120 Hours

- *Students in this major must complete eight preadmission courses with a grade of C or higher and obtain a 2.25 cumulative GPA and a 2.25 in these specific courses, for admission to the degree program. These courses are recommended for completion during the freshman and sophomore years. These courses are indicated with an (*).
- **AE or BADM 1400 (1 hr.) are highly recommended for academic success. AE or BADM 1400 counts as a free choice elective. If chosen, 1 less hour of free choice elective will be required in the senior year.
- *****All Entrepreneurship and Social Enterprise majors must enroll in the IBE Block**. This includes the IBE Practicum (MGT 3385, MKT 3485 or CIS 3685) concurrently with the IBE sections of MGT 3315, MKT 3405 and CIS 3630. This is typically done during the fall of the junior year. Prerequisites for the IBE block include: ACCT 2101, CIS 1600, and junior standing.
- #In the General Education curriculum: WGS 2000 is recommended in Knowledge Area III; PHIL 2300 is recommended in Engagement.
- ##Nine hours of major electives are required. See the course listing in the 2015 Undergraduate Catalog for course choices.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- A 2.25 cumulative GPA is required for graduation with in this major.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA after they earn 45 credit hours but before earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

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

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Freshman Year - Fall Semester CFD 1010 Individual & Family Relationships (GE) ENGL 1020 Composition I (GE) FAME 1400 Introduction to Fashion Merchandising FAME 1445 Fashion Seminar 1* General Education (If chosen, CIS 1600 will also count in the Business Administration minor)** Semester Total	Hrs 3 3 1 e 3 13	Freshman Year - Spring Semester ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) FAME 1450 Fund. of Apparel Design and Construction General Education Semester Total	Hrs 3 9 15
Summer – After Freshman or Sophomore Year FAME 2440 Professional Work Experience*# Semester Total	Hrs 3 3		
Sophomore Year - Fall Semester FAME 2442 Textile Science FAME 2445 Fashion Seminar 2* General Education Semester Total	Hrs 3 1 9 13	Sophomore Year - Spring Semester FAME 2425 Apparel Quality Analysis* Minor Coursework (BLAW 2720 recommended for overlap with both Marketing and Business Administration minors)* General Education Semester Total	Hrs 3 * 3 9 15
Junior Year - Fall Semester FAME 3415 Product Development for Consumers* FAME 3430 Professional Image Management* FAME 3434 Fashion History of Costume (GE)* FAME 3445 Fashion Seminar 3* Minor Coursework (MKT 3405 required for both minors)** Semester Total	Hrs 3 3 1 3 1 3 13	Junior Year - Spring Semester ACCT 2101 Principles of Financial Accounting FAME 3435 Fashion Buying* FAME 3440 Fashion Promotion and Visual Merchandising* Minor Coursework** Semester Total	Hrs 3 3 6 15
Summer – After Junior or Senior Year FAME 4490 Internship in FAME*# Semester Total	Hrs 3 3		
 Senior Year - Fall Semester FAME 4410 Materials for Interior Furnishings* FAME 4425 Fashion Entrepreneurship* Major Elective## Minor Coursework** (0 hours needed for Bus. Adm. minor and 6 hours needed for Marketing minor) Free Choice Electives### (0 hours needed for Mkt. major an 6 hours needed for Business Administration minor) Semester Total 	Hrs 3 3 0-6 0-6 15	Senior Year - Spring Semester FAME 3442 Sustainability for Consumer Products (GE)* FAME 4433 International Apparel Technology* FAME 4445 Senior Seminar in FAME* ¹⁰ Major Elective## Free Choice Electives### Semester Total	Hrs 3 3 3 3 6 15

Fashion: Textiles & Clothing in Business Major, B.S. Degree - 120 hours

- *This class is only offered during the semester indicated.
- **This major requires a minor in either Business Administration or Marketing. If the Business Administration minor is selected, take CIS 1600 (3 hours) to fulfill the technology requirement in general education. ACCT 2101 in the major will overlap with 3 hours of the Business Administration minor.
- #FAME 2440 Professional Work Experience is a prerequisite to FAME 4490 Internship in FAME. The two courses cannot be taken during the same summer semester. FAME 2440 can be taken after either the freshman or sophomore years and FAME 4490 can be taken after either the junior or senior years.
- ##Choose six hours of major electives from the following list: FAME 2440 (up to 3 additional hours), 2450, 4450, 4490 (up to 3 additional hours), or GRAP 2030.
- ###The number of free choice electives required is based on the minor chosen. If the Marketing minor is chosen, 6 hours of free choice electives are needed. If Business Administration is chosen, 12 hours of free choice electives will be required because ACCT 2101 will overlap with the major and CIS 1600 will overlap with the general education.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

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

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester CIS 1600 Business Information Management (GE)* ECON 1010 Principles of Macroeconomics (GE)* ENGL 1020 Composition I (GE) MATH 1111 College Algebra (GE)* General Education Semester Total AE 1400 or BADM 1400 University Foundations**	Hrs 3 3 3 3 3 15 1	 Freshman Year - Spring Semester COMM 1000 Public Speaking or COMM 1050 Fundamentals of Oral Communication Competency (GE) ECON 1011 Principles of Microeconomics* ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) General Education Semester Total 	Hrs 3 3 6 15
Sophomore Year - Fall Semester ACCT 2101 Principles of Financial Accounting* BLAW 2720 Legal Environment of Business* General Education Semester Total	Hrs 3 3 9 15	Sophomore Year - Spring Semester ACCT 2102 Principles of Managerial Accounting* FIN 2801 Business Statistics I* General Education Free Choice Electives Semester Total Note: Complete all B.S.B.A. Admission requirements.*	Hrs 3 3 7 2 15
Junior Year - Fall Semester ECON 3020 Money & Banking FIN 3801 Business Statistics II FIN 3850 Principles of Finance*** MGT 3325 Business Communication Free Choice Electives Semester Total	Hrs 3 3 3 3 3 3 15	Junior Year - Spring Semester FIN 3861 Financial Management I*** FIN 3881 Financial Institutions & Markets*** FIN 3891 Security Analysis*** FIN 3893 Credit & Financial Statement Analysis*** MGT 3315 Management of Organizations Semester Total	Hrs 3 3 3 3 3 15
Senior Year - Fall Semester CIS 3630 Management Information Systems ECON 3030 Intermediate Microeconomics MKT 3405 Marketing Policy Finance Electives# Semester Total	Hrs 3 3 3 6 15	Senior Year - Spring Semester MGT 4357 Organizational Policy & Strategy ¹⁰ MGT 3360 Supply Chain and Operations Management Finance Electives# Finance or UpperLevel Business Elective# Semester Total	Hrs 3 3 6 3 15

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

- *Students in this major must complete eight preadmission courses with a grade of C or higher and must obtain a 2.40 cumulative GPA and a 2.40 in these specific courses, before admission to the degree program. These courses are recommended for completion during the freshman and sophomore years.
- **AE 1400 and BADM 1400 (1 hr.) are free choice electives and are highly recommended for academic success. If AE 1400 or BADM 1400 is chosen, 1 less hour of free choice electives will be needed.
- ***A minimum grade of C must be earned in FIN 3850, FIN 3861, FIN 3881, FIN 3891 and FIN 3893 if they are to be applied toward the fulfillment of a Finance major or minor.
- #Fifteen hours of Finance electives are required for this major. Up to three of these hours may be a non-finance upper-level (3000-4000) business elective. See department chairperson for advice. The finance electives include: FIN 3835, FIN 4803, FIN 4804, FIN 4815, FIN 4817, FIN 4820, FIN 4821, FIN 4831, FIN 4862, and FIN 4880. FIN 4830 may be available as an elective with department chairperson approval. Electives are not offered every semester check with the department chairperson for course offerings.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- A 2.40 cumulative GPA is required for graduation in this major.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA after they earn 45 credit hours but before earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

UNIVERSITY OF CENTRAL MISSOURI

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

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Freshman Year - Fall Semester CHEM 1131 General Chemistry I (GE)*+ ENGL 1020 Composition I (GE) MATH 1151 Calculus & Analytic Geometry I (GE)* General Education Semester Total AE 1400 University Foundations**	Hrs 5 3 5 2-3 15-16 1	Freshman Year - Spring Semester CHEM 1132 General Chemistry II+ CJ 1000 Introduction to Criminal Justice (GE) ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) General Education Semester Total	Hrs 5 3 3 3 14
Sophomore Year - Fall Semester BIOL 1110 Principles of Biology CHEM 3341 Organic Chemistry I+ PHYS 1101 College Physics I (GE) or PHYS 2121 University Physics I (GE) General Education Semester Total	Hrs 3 4 4-5 3 14-15	Sophomore Year - Spring Semester CHEM 3212 Quantitative Analysis CHEM 3342 Organic Chemistry II PHYS 1102 or PHYS 2122 College/University Physics II General Education Semester Total	Hrs 3 4 4-5 3 14-15
Junior Year - Fall Semester BIOL 3511 Genetics CHEM 3111 Intermediate Inorganic Chemistry*** CHEM 3421 Intermediate Biochemistry CHEM 4231 Instrumental Analysis*** Semester Total	Hrs 4 4 3 4 15	Junior Year - Spring Semester BIOL 2010 Human Biology or BIOL 3401 Human Anatomy BIOL 4013 Introduction to Experimental Design & Analysis CHEM 3920 Communication Skills in Chemistry ¹⁰ General Education Semester Total	Hrs 3 2 9 17
Senior Year - Fall Semester BIOL 3410 Forensic Science Major CHEM Elective***# General Education Free Choice Electives## Semester Total	Hrs 3 3 6 15	Senior Year - Spring Semester BIOL 4514 Molecular Biology CHEM 4531 Physical Chemistry I*** or CHEM 4532 Physical Chemistry II*** CJ 4302 Criminal Evidence Free Choice Electives## Semester Total	Hrs 3 4 3-6 13-16

Forensic Chemistry Major, B.S. Degree - 120 hours

- *Enrollment in CHEM 1131 and MATH 1151 is dependent upon one or more of the following: math placement level, high school math courses completed, ACT/SAT standardized test scores, and/or a possible mathematics placement examination.
- +A grade of C or better is required to enroll in future required major classes. See Undergraduate Catalog for more details.
- **AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- ***Upper level chemistry courses offered variably. Check school for actual offerings.
- #The program advisors recommend the following classes to fulfill the 3 hours of major CHEM electives and the 10-12 hours of free choice electives: CHEM 4313, 4421, 4431, 4531, 4532, and 4910.
- ##The number of free choice electives required to reach the minimum hours required for a degree (120) will depend on selections made in the general education for technology and in the major for the PHYS sequence.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

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

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester	Hrs	Freshman Year - Spring Semester	Hrs
ART 1110 Drawing I	3	ART 1120 Drawing II	3
ART 1315 2-D Design	3	ART 1325 Color and Design	3
ART 1800 Ideas & the Visual Arts (GE)	3	ART 2610 Introduction to Graphic Design & Illustration	3
ENGL 1020 Composition I (GE)	3	ART 2620 Typography	3
GRAP 1010 Fundamentals of Graphic Processes	3	ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE)	3
Semester Total	15	Semester Total	15
Sophomore Year - Fall Semester ART 1815 Art History Survey I (fall only) ART 2335 3-D Design ART 3660 Publication Design Major Elective* General Education Semester Total	Hrs 3 3 3 6 18	Sophomore Year - Spring Semester ART 1825 Art History Survey II ART 2710 Printmaking I ART 3620 Logo & Trademark Design ART 3680 History of Graphic Design General Education Semester Total	Hrs 3 3 3 3 6 18
Junior Year - Fall Semester ART 2412 Ceramics I or ART 2420 Sculpture I ART 3630 Design for Advertising Major Elective* General Education Semester Total	Hrs 3 3 6 15	Junior Year - Spring Semester ART 2511 Painting I ART 3640 Package Design ART 4610 Interactive Design General Education Semester Total	Hrs 3 3 6 15
ART 2412 Ceramics I or ART 2420 Sculpture I	3	ART 2511 Painting I	3
ART 3630 Design for Advertising	3	ART 3640 Package Design	3
Major Elective*	3	ART 4610 Interactive Design	3
General Education	6	General Education	6

Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
ART 3510 Watercolor	3	ART 4020 Studio Seminar ¹⁰	3
ART 3650 Narrative Animation or ART 4620 Motion Design	3	ART 4221 Art Theory and Criticism	3
Major Elective*	3	ART Elective	3
General Education	6	Major Elective*	3
Semester Total	15	General Education (only 6 hours needed if COMM 1200 is chosen as one of the major electives*) Semester Total	0-3 12-15

Graphic Design, B.F.A. Degree - 123-126 hours

- *This major requires 12 hours of major electives. The 12 hours of major electives should be chosen from the list provided in the Undergraduate Catalog. If COMM 1200 is chosen, this course will overlap with general education requirements and the student will graduate with 123 credit hours.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- Students should meet with program area faculty for more detailed advice regarding the sequencing of required major coursework in this major.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA after they earn 45 credit hours but before earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

Graphic Technologies Major, B.S. Degree, Option 1: Print Media Technology Management (43-01599)

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester CIS 1600 Business Information Management (GE) ENGL 1020 Composition I (GE) GRAP 1000 Orientation to Graphic Technologies* GRAP 1010 Fundamentals of Graphic Processes General Education Semester Total	Hrs 3 1 3 6 16	Freshman Year - Spring Semester CTE 3060 Technical Writing (GE) GRAP 2030 Pre-Media Applications - Adobe Illustrator GRAP 2031 Pre-Media Applications - Adobe Photoshop General Education Semester Total	Hrs 3 3 3 6 15
Sophomore Year - Fall Semester GRAP 2032 Pre-Media Applications - Adobe InDesign GRAP 3034 Lithographic Processes* GRAP 3040 Screen & Specialty Printing General Education Semester Total	Hrs 3 3 3 6 15	Sophomore Year - Spring Semester ART 2610 Introduction to Graphic Design & Illustration GRAP 2035 Digital Workflow Applications GRAP 2610 Principles of Web Media* Major Option 1 Electives** Semester Total	Hrs 3 3 3 6 15
During Sophomore or Junior Year GRAP 3016 Experiences in Graphic Production*** Semester Total	Hrs] 1		
Junior Year - Fall Semester GRAP 3024 Flexographic Processes* MGT 3315 Management of Organizations or INDM 4250 Project Management Major Option 1 Elective**# General Education Science with a Laboratory General Education (COMM 1000 or 1050 recommended to meet MGT 3325 prerequisite) Semester Total	Hrs 3 3 4 3 16	Junior Year - Spring Semester GRAP 3030 Digital Output Technologies* GRAP 3043 Finishing & Distribution* GRAP 3045 Materials and Methods in Graphic Technologies GRAP 3051 Graphic Technologies Management* General Education (If ECON 1010 is chosen will also count as a major Option 1 elective)# Semester Total	Hrs 3 3 3 3 3 15
Between Junior & Senior Year - Summer Semester SOT 3022 Internship in Technology## Semester Total	Hrs 1		
Senior Year - Fall Semester GRAP 3057 Quality Control for Print Media* GRAP 4038 Color Management* GRAP 4053 Production Analysis ^{* 10} GRAP 4095 Senior Seminar in Graphic Technologies* General Education Semester Total	Hrs 3 3 1 3 1 3 13	Senior Year - Spring Semester GRAP 4051 Print Production* GRAP 4055 Estimating & Costing for Print Media*### MGT 3325 Business Communication General Education Free Choice Electives# Semester Total	Hrs 3 3 3 1 13

Graphic Technologies Major, B.S. Degree, Option 1: Print Media Technology Management - 120 hours

- *This class is only offered during the semester indicated.
- **See the 2015 Undergraduate Catalog for the list of approved major option electives. Some of the Major Option 1 Electives can be used to work towards a minor in Business Administration or Marketing, if elected.
- ***GRAP 3016 Experiences in Graphic Production may be completed in a Summer, Fall or Spring Semester. It should be taken during the Sophomore or Junior years. Contact the instructor for permission to enroll.
- #If ECON 1010 is chosen for 3 hours of major option 1 electives, those hours will overlap with general education. The number of free choice electives needed will depend on choices made in the general education and major.
- ##SOT 3022 may be completed in a Summer, Fall or Spring Semester. It should be taken during the Junior or Senior years. Contact the instructor for permission to enroll.
- ###It is recommended that students enroll in GRAP 4055, Estimating & Costing for Print Media, during the spring semester immediately prior to graduation.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

Graphic Technologies Major, B.S. Degree, Option 2: Graphic Design Technology (43-02599)

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester CIS 1600 Business Information Management (GE) ENGL 1020 Composition I (GE) GRAP 1000 Orientation to Graphic Technologies* GRAP 1010 Fundamentals of Graphic Processes General Education Semester Total	Hrs 3 1 3 6 16	Freshman Year - Spring Semester CTE 3060 Technical Writing (GE) GRAP 2030 Pre-Media Applications - Adobe Illustrator GRAP 2031 Pre-Media Applications - Adobe Photoshop General Education Semester Total	Hrs 3 3 3 6 15
Sophomore Year - Fall Semester GRAP 2032 Pre-Media Applications - Adobe InDesign GRAP 3034 Lithographic Processes* GRAP 3040 Screen & Specialty Printing General Education Semester Total	Hrs 3 3 6 15	Sophomore Year - Spring Semester ART 2610 Introduction to Graphic Design & Illustration GRAP 2035 Digital Workflow Applications GRAP 2610 Principles of Web Media* Major Option 2 Elective** General Education Science with Laboratory Semester Total	Hrs 3 3 3 3 4 16
During Sophomore or Junior Year GRAP 3016 Experiences in Graphic Production*** Semester Total	Hrs]]		
Junior Year - Fall Semester GRAP 3024 Flexographic Processes* MGT 3315 Management of Organizations or INDM 4250 Project Management Major Option 2 Elective** General Education Semester Total	Hrs 3 3 6 15	Junior Year - Spring Semester GRAP 3030 Digital Output Technologies* GRAP 3045 Materials and Methods in Graphic Technologie: GRAP 3051 Graphic Technologies Management* Major Option 2 Elective** General Education Semester Total	Hrs 3 s*3 3 3 3 3 15
Between Junior & Senior Year - Summer Semester SOT 3022 Internship in Technology# Semester Total	Hrs 1 1		
Senior Year - Fall Semester GRAP 4038 Color Management* GRAP 4053 Production Analysis ^{*10} GRAP 4095 Senior Seminar in Graphic Technologies* Major Option 2 Elective** Semester Total	Hrs 3 1 6 13	Senior Year - Spring Semester GRAP 3043 Finishing & Distribution* Major Option 2 Elective** General Education Free Choice Elective Semester Total	Hrs 3 6 3 1 13

Graphic Technologies Major, B.S. Degree, Option 2: Graphic Design Technology - 120 hours

- *This class is only offered during the semester indicated.
- **See the 2015 Undergraduate Catalog for the list of approved Major Option 2 Electives.
- ***GRAP 3016 Experiences in Graphic Production may be completed in a Summer, Fall or Spring Semester. It should be taken during the Sophomore or Junior years. Contact the instructor for permission to enroll.
- #SOT 3022 may be completed in a Summer, Fall or Spring Semester. It should be taken during the Junior or Senior years. Contact the instructor for permission to enroll.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA after they earn 45 credit hours but before earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

Graphic Technologies Major, B.S. Degree, Option 3: Web Media Technology (43-03599)

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester CIS 1600 Business Information Management (GE) ENGL 1020 Composition I (GE) GRAP 1000 Orientation to Graphic Technologies GRAP 1010 Fundamentals of Graphic Processes General Education Semester Total	Hrs 3 1 3 6 16	Freshman Year - Spring Semester CTE 3060 Technical Writing (GE) GRAP 2030 Pre-Media Applications - Adobe Illustrator GRAP 2031 Pre-Media Applications - Adobe Photoshop General Education Semester Total	Hrs 3 3 6 15
Sophomore Year - Fall Semester GRAP 2032 Pre-Media Applications - Adobe InDesign GRAP 2610 Principles of Web Media GRAP 3034 Lithographic Processes* GRAP 3040 Screen & Specialty Printing General Education Semester Total	Hrs 3 3 3 3 3 15	Sophomore Year - Spring Semester ART 2610 Introduction to Graphic Design & Illustration GRAP 2035 Digital Workflow Applications GRAP 2620 Web Media Applications Major Option 3 Elective** General Education Semester Total	Hrs 3 3 3 3 3 3 15
During Sophomore or Junior Year GRAP 3016 Experiences in Graphic Production*** Semester Total	Hrs 1 1		
Junior Year - Fall Semester GRAP 2630 Web Authoring GRAP 3024 Flexographic Processes* MGT 3315 Management of Organizations or INDM 4250 Project Management General Education Science with Laboratory General Education Semester Total	Hrs 3 3 4 3 16	Junior Year - Spring Semester GRAP 2670 Web Media Animation GRAP 3030 Digital Output Technologies GRAP 3045 Materials and Methods in Graphic Technologies GRAP 3051 Graphic Technologies Management* General Education Semester Total	Hrs 3 3 3 3 3 3 15
Between Junior & Senior Year - Summer Semester SOT 3022 Internship in Technology# Semester Total	Hrs 1 1		
Senior Year - Fall Semester GRAP 4038 Color Management* GRAP 4053 Production Analysis* ¹⁰ GRAP 4095 Senior Seminar in Graphic Technologies* Major Option 3 Elective** General Education Semester Total	Hrs 3 1 3 3 1 1 3	Senior Year - Spring Semester GRAP 3043 Finishing & Distribution* Major Option 3 Electives** General Education Free Choice Elective Semester Total	Hrs 3 6 3 1 13

Graphic Technologies Major, B.S. Degree, Option 3: Web Media Technology - 120 hours

- *This class is only offered during the semester indicated.
- **See the 2015 Undergraduate Catalog for the list of approved Major Option 3 Electives.
- ***GRAP 3016 Experiences in Graphic Production may be completed in a Summer, Fall or Spring Semester. It should be taken during the Sophomore or Junior years. Contact the instructor for permission to enroll.
- #SOT 3022 may be completed in a Summer, Fall or Spring Semester. It should be taken during the Junior or Senior years. Contact the instructor for permission to enroll.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA after they earn 45 credit hours but before earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

Graphic Technologies Major, B.S. Degree, Option 4: Packaging Technology (43-01599)

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester CIS 1600 Business Information Management (GE) ENGL 1020 Composition I (GE) GRAP 1000 Orientation to Graphic Technologies GRAP 1010 Fundamentals of Graphic Processes General Education Semester Total	Hrs 3 1 3 6 16	Freshman Year - Spring Semester CTE 3060 Technical Writing (GE) GRAP 2030 Pre-Media Applications - Adobe Illustrator GRAP 2031 Pre-Media Applications - Adobe Photoshop General Education Semester Total	Hrs 3 3 3 6 15
Sophomore Year - Fall Semester CADD 1105 Basic AutoCAD CADD 1110 Fundamentals of Drafting ENGT 1012 Global Production Technology GRAP 2032 Pre-Media Applications - Adobe InDesign GRAP 3034 Lithographic Processes* General Education Semester Total	Hrs 1 3 2 3 3 3 15	Sophomore Year - Spring Semester ART 2610 Introduction to Graphic Design & Illustration GRAP 1700 Introduction to Packaging GRAP 2035 Digital Workflow Applications GRAP 2610 Principles of Web Media General Education Science with Laboratory Semester Total	Hrs 3 3 3 4 16
During Sophomore or Junior Year GRAP 3016 Experiences in Graphic Production** Semester Total	Hrs]]		
Junior Year - Fall Semester GRAP 3024 Flexographic Processes* GRAP 3040 Screen & Specialty Printing Major Option 4 Elective** General Education Semester Total	Hrs 3 3 6 15	Junior Year - Spring Semester GRAP 3030 Digital Output Technologies GRAP 3045 Materials and Methods in Graphic Technologies GRAP 3051 Graphic Technologies Management* Major Option 4 Elective*** General Education Semester Total	Hrs 3 3 3 3 3 15
Between Junior & Senior Year - Summer Semester SOT 3022 Internship in Technology# Semester Total	Hrs]]		
Senior Year - Fall Semester GRAP 4038 Color Management* GRAP 4053 Production Analysis ^{* 10} GRAP 4095 Senior Seminar in Graphic Technologies* MGT 3315 Management of Organizations or INDM 4250 Project Management General Education Semester Total	Hrs 3 1 3 3 3 13	Senior Year - Spring Semester GRAP 3043 Finishing & Distribution* GRAP 4051 Print Production Major Option 4 Electives*** General Education Free Choice Elective Semester Total	Hrs 3 3 3 1 13

Graphic Technologies Major, B.S. Degree, Option 4: Packaging Technology - 120 hours

- *This class is only offered during the semester indicated.
- **GRAP 3016 Experiences in Graphic Production may be completed in a Summer, Fall or Spring Semester. It should be taken during the Sophomore or Junior years. Contact the instructor for permission to enroll.
- ***See the 2015 Undergraduate Catalog for the list of approved Major Option 4 Electives.
- #SOT 3022 may be completed in a Summer, Fall or Spring Semester. It should be taken during the Junior or Senior years. Contact the instructor for permission to enroll.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

Graphic Technologies Major, B.S. Degree, Option 5: Photography (43-05599)

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester CIS 1600 Business Information Management (GE) ENGL 1020 Composition I (GE) GRAP 1000 Orientation to Graphic Technologies GRAP 1010 Fundamentals of Graphic Processes General Education Semester Total	Hrs 3 1 3 6 16	Freshman Year - Spring Semester CTE 3060 Technical Writing (GE) GRAP 2030 Pre-Media Applications - Adobe Illustrator GRAP 2031 Pre-Media Applications - Adobe Photoshop General Education Semester Total	Hrs 3 3 6 15
Sophomore Year - Fall Semester GRAP 2032 Pre-Media Applications - Adobe InDesign GRAP 3034 Lithographic Processes* PHOT Major Option 5 Elective** General Education Semester Total	Hrs 3 3 6 15	Sophomore Year - Spring Semester ART 2610 Introduction to Graphic Design & Illustration GRAP 2035 Digital Workflow Applications GRAP 2610 Principles of Web Media PHOT Major Option 5 Elective** Semester Total	Hrs 3 3 6 15
During Sophomore or Junior Year GRAP 3016 Experiences in Graphic Production*** Semester Total	Hrs 1 1		
Junior Year - Fall Semester GRAP 3024 Flexographic Processes* GRAP 3040 Screen & Specially Printing MGT 3315 Management of Organizations or INDM 4250 Project Management General Education Science with Laboratory General Education Semester Total	Hrs 3 3 4 3 16	Junior Year - Spring Semester GRAP 3030 Digital Output Technologies GRAP 3045 Materials and Methods in Graphic Technologies GRAP 3051 Graphic Technologies Management* PHOT Major Option 5 Elective** General Education Semester Total	Hrs 3 3 3 3 3 15
Between Junior & Senior Year - Summer Semester SOT 3022 Internship in Technology# Semester Total	Hrs]]		
Senior Year - Fall Semester GRAP 4038 Color Management* GRAP 4053 Production Analysis* ¹⁰ GRAP 4095 Senior Seminar in Graphic Technologies* PHOT Major Option 5 Elective** General Education Semester Total	Hrs 3 1 3 3 1 1 3	Senior Year - Spring Semester GRAP 3043 Finishing & Distribution* PHOT Major Option 5 Elective** General Education Free Choice Elective Semester Total	Hrs 3 6 3 1 13

Graphic Technologies Major, B.S. Degree, Option 5: Photography - 120 hours

- *This class is only offered during the semester indicated.
- **See your faculty mentor for advice on selecting the 21 hours of PHOT major option electives. Choose PHOT 1210, 1211, 2210 and 2250 for 10 of the 21 major option 5 electives to complete a minor in Photography.
- ***GRAP 3016 Experiences in Graphic Production may be completed in a Summer, Fall or Spring Semester. It should be taken during the Sophomore or Junior years. Contact the instructor for permission to enroll.
- #SOT 3022 may be completed in a Summer, Fall or Spring Semester. It should be taken during the Junior or Senior years. Contact the instructor for permission to enroll.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA after they earn 45 credit hours but before earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

Health Studies Major - Option 1 Pre-PT/Pre-OT, B.S. Degree (43-02330)

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester ENGL 1020 Composition I (GE)# MATH 1111 College Algebra (GE)# PE 2472 Communicating Ideas on Sport (GE)# SOC 1800 General Sociology (GE)# General Education Semester Total AE 1400 University Foundations*	Hrs 3 3 3 3 3 15 1	Freshman Year - Spring Semester CHEM 1131 General Chemistry I (GE)#** CTE 3060 Technical Writing (GE)# PE 1800 Functional Anatomy# PSY 1100 General Psychology (GE)# General Education Managing Information Semester Total	Hrs 5 3 3 2 16
Sophomore Year - Fall Semester BIOL 3401 Human Anatomy# CHEM 1132 General Chemistry II# PE 2800 Biomechanics# General Education Semester Total	Hrs 3 5 3 6 17	Sophomore Year - Spring Semester BIOL 3402 Human Physiology# PE 2850 Foundations of Exercise Physiology# PHIL 2300 Ethics (GE)# General Education Semester Total	Hrs 5 3 3 3 14
Junior Year - Fall Semester AT 2640 Introduction to Therapeutic Rehabilitation# HED 4370 Human Diseases# PHYS 1101 College Physics I (GE)# PSY 3220 Life-Span Development# Free Choice Electives Semester Total	Hrs 2 3 4 3 3 15	Junior Year - Spring Semester AT 2630 Therapeutic Modalities# AT 2631 Therapeutic Modalities Lab# BIOL 2510 Basic Genetics# PHYS 1102 College Physics II# PSY 4440 Abnormal Psychology # Free Choice Electives Semester Total	Hrs 2 1 3 4 3 2 15
Senior Year - Fall Semester BIOL 3215 Medical Terminology# HED 4330 First Aid & CPR# PE 4850 Assessment and Evaluation of Fitness/Wellness# PSY 4520 Statistics for the Behavioral Sciences# Free Choice Electives Semester Total	Hrs 3 1 3 4 14	Senior Year - Spring Semester PE 4341 Physical Activity and Special Populations# PE 4765 Internship# ¹⁰ PE 4870 Clinical Exercise Physiology# Free Choice Electives Semester Total	Hrs 3 6 3 2 14

Health Studies Major - Option 1 Pre-PT/Pre-OT, B.S. Degree - 120 hours

- #A grade of C or better is required in these courses.
- *AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- **Enrollment in CHEM 1131 requires a score of 21 on the mathematics section of the ACT, a score of 550 on the mathematics section of the SAT, a passing score on a mathematics examination approved by the School of Environmental, Physical, and Applied Sciences, or a grade of C or better in MATH 11111.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

Health Studies Major - Option 2 Community Health, B.S. Degree (43-02330)

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester CHEM 1104 Introduction to the Sciences: Chemistry (GE)# ENGL 1020 Composition I (GE)# HED 1010 Introduction to Health Studies# SOC 1800 General Sociology (GE)# General Education Managing Information Semester Total AE 1400 University Foundations*	Hrs 4 3 1 3 2-3 13-14 1	Freshman Year - Spring Semester HED 1100 Personal Health# MATH 1111 College Algebra (GE)# PE 2472 Communicating Ideas on Sport (GE)# PSY 1100 General Psychology (GE)# General Education Semester Total	Hrs 3 3 3 3 3 15
Sophomore Year - Fall Semester BIOL 3401 Human Anatomy# D&N 3340 Nutrition# PHIL 2300 Ethics (GE)# General Education Semester Total	Hrs 3 3 3 6 15	Sophomore Year - Spring Semester BIOL 3215 Medical Terminology# BIOL 3402 Human Physiology# CTE 3060 Technical Writing (GE)# D&N 3350 Community Nutrition# General Education Semester Total	Hrs 3 5 3 3 3 17
Junior Year - Fall Semester COMM 3010 Interpersonal Communication# HED 4310 Drugs & Youth# HED 4370 Human Diseases# PSY 3220 Life-Span Development# General Education Free Choice Elective Semester Total	Hrs 3 3 3 3 3 3 3 18	Junior Year - Spring Semester HED 4390 Community Health Education# NUR 4030 Human Sexuality# PSY 4440 Abnormal Psychology# Free Choice Electives Semester Total	Hrs 3 3 6 15
Senior Year - Fall Semester HED 4400 Health Program Planning and Evaluation# SOC 4875 Medical Sociology# SOC 4894 Sociology of Aging# Free Choice Electives Semester Total	Hrs 3 3 6-7 15-16	Senior Year - Spring Semester PE 4765 Internship# ¹⁰ PSY 4520 Statistics for the Behavioral Sciences# Free Choice Elective Semester Total	Hrs 6 3 3 12

Health Studies Major - Option 2 Community Health, B.S. Degree - 120 hours

- #A grade of C or better is required in these courses.
- *AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA after they earn 45 credit hours but before earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

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

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester ENGL 1020 Composition I (GE) HIST 1350 History of the United States to 1877 (GE)* Modern Language Requirement (GE)** General Education Semester Total AE 1400 University Foundations***	Hrs 3 3 6 15 1	Freshman Year - Spring Semester ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) HIST 1351 History of the United States from 1877 (GE)* HIST 2402 History of Modern World* Modern Language Requirement General Education Semester Total	Hrs 3 3 3 3 3 15
Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
HIST 2400 History of the Early World*	3	HIST 2401 History of the Early Modern World*	3
Modern Language Requirement	3	Modern Language Requirement	3
General Education	9	General Education	9
Semester Total	15	Semester Total	15
Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
SOSC 3010 Writing in the Social Sciences	3	Upper-Level Elective in American History	3
Upper-Level Elective in American History	3	Upper-Level Elective in World History#	3
Free Choice Electives	9	Free Choice Electives	9
Semester Total	1 5	Semester Total	15
Senior Year - Fall Semester Upper-Level Elective in World History# Upper-Level Elective in History Free Choice Electives Semester Total	Hrs 6 3 6 15	Senior Year - Spring Semester HIST 4500 Senior Capstone in History## ¹⁰ Free Choice Electives Semester Total	Hrs 3 12 15

History Major, B.A. Degree - 120 hours

- A grade of C or better is required in all major courses.
- *Must earn a 2.50 combined GPA in the following courses: HIST 1350, 1351, 2400, 2401, and 2402. Students must apply for admission to the major program after completion of the five survey courses. See department (Wood 136, 660-543-4404).
- **The 12 hour of modern foreign language must be from the same language.
- ***AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- #A minimum of three hours of world history must be non-western history, or HIST 4452 or HIST 4453.
- ##HIST 4500 Senior Capstone in History is usually only offered in the spring semesters and has SOSC 3010 Writing in the Social Sciences as a prerequisite. Students may not take SOSC 3010 and HIST 4500 in the same semester.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- This major does not build in the minimum number (30) of upper-level credit hours required for graduation. Be sure to include upper-level choices (3000/4000) in your major electives, general education, and/or free choice electives.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA after they earn 45 credit hours but before earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

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

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester ENGL 1020 Composition I (GE) HIST 1350 History of the United States to 1877 (GE)* General Education Semester Total AE 1400 University Foundations**	Hrs 3 3 9 15 1	Freshman Year - Spring Semester ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE HIST 1351 History of the United States from 1877 (GE)* HIST 2402 History of Modern World* General Education Semester Total	Hrs 3 3 6 15
Sophomore Year - Fall Semester HIST 2400 History of the Early World* General Education Semester Total	Hrs 3 12 15	Sophomore Year - Spring Semester HIST 2401 History of the Early Modern World* General Education Free Choice Electives# Semester Total	Hrs 3 3 9 15
Junior Year - Fall Semester SOSC 3010 Writing in the Social Sciences Upper-Level Elective in American History Free Choice Electives# Semester Total	Hrs 3 3 9 15	Junior Year - Spring Semester Upper-Level Elective in American History Upper-Level Elective in World History* * * Free Choice Electives# Semester Total	Hrs 3 3 9 15
Senior Year - Fall Semester Upper-Level Elective in World History*** Upper-Level Elective in History Free Choice Electives# Semester Total	Hrs 6 3 6 15	Senior Year - Spring Semester HIST 4500 Senior Capstone in History## ¹⁰ Free Choice Electives# Semester Total	Hrs 3 12 15

History Major, B.S. Degree - 120 hours

- A grade of C or better is required in all major courses.
- *Must earn a 2.50 combined GPA in the following courses: HIST 1350, 1351, 2400, 2401, and 2402. Students must apply for admission to the major program after completion of the five survey courses. See department (Wood 136, 660-543-4404).
- **AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- ***A minimum of three hours of world history must be non-western history, or HIST 4452 or HIST 4453.
- #See department history advisor for suggestions on using free choice electives toward one of the areas (Business, Geographic Information Systems (GIS), Web Management, Law, and Africana Studies) which can easily become a minor with a few additional courses. Minors and double majors are strongly encouraged.
- ##HIST 4500 Senior Capstone in History is usually only offered in the spring semesters and has SOSC 3010 Writing in the Social Sciences as a prerequisite. Students may not take SOSC 3010 and HIST 4500 in the same semester.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.

UNIVERSITY OF CENTRAL MISSOURI

Hospitality Management Major, B.S.B.A. Degree (46-613)

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester CIS 1600 Business Information Management (GE)* COMM 1000 Public Speaking or COMM 1050 Fundamentals of Oral Communication Competency (GE) ENGL 1020 Composition I (GE) HM 1800 Introduction to Hospitality (fall only) MATH 1111 College Algebra (GE)* Semester Total AE 1400 or BADM 1400 University Foundations**	Hrs 3 3 3 3 3 15 1	Freshman Year - Spring Semester ECON 1010 Principles of Macroeconomics (GE)* ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) General Education Semester Total	Hrs 3 3 9 15
Sophomore Year - Fall Semester ACCT 2101 Principles of Financial Accounting* BLAW 2720 Legal Environment of Business* ECON 1011 Principles of Microeconomics* General Education Semester Total	Hrs 3 3 7 16	Sophomore Year - Spring Semester ACCT 2102 Principles of Managerial Accounting* FIN 2801 Business Statistics I* HM 2830 Hospitality Case Analysis HM 3830 Tourism Marketing (spring only) General Education Semester Total	Hrs 3 3 1 3 6 16
Summer Semester HM 3880 Internship (typically completed during the summer after 2nd or 3rd year - may be done during a regular semester.)*** Semester Total	Hrs 3 3	Note: Complete all BSBA Admission requirements.*	
Junior Year - Fall Semester FIN 3801 Business Statistics II FIN 3850 Principles of Finance HM 2830 Hospitality Case Analysis HM 3800 Lodging Management (fall only) MGT 3325 Business Communications Semester Total	Hrs 3 1 3 3 1 3 13	Junior Year - Spring Semester HM 3844 Restaurant Operations (spring only) (IBE Block-below)# CIS 3630 Management Information Systems# MGT 3315 Management of Organizations# MKT 3405 Marketing Policy# IBE Practicum (CIS 3685/MKT 3485/MGT 3385)# Semester Total	Hrs 3 3 3 3 3 15
Senior Year - Fall Semester HM 4820 Sustainability & Operations Management (fall only) HRM 3920 Human Resource Management MGT 3320 System, Teams, & Organizational Behavior MGT 3360 Supply Chain and Operations Management MGT 4357 Organizational Policy & Strategy ¹⁰ Semester Total	Hrs 3 3 3 3 3 15	Senior Year - Spring Semester HM 3825 Events Management (spring only) HM 4845 Senior Seminar (spring only) General Education Free Choice Electives** Semester Total	Hrs 3 3 3 3 12

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

- *Students in this major must complete eight preadmission courses with a grade of C or higher and must obtain a 2.25 cumulative GPA and a 2.25 in these specific courses, for admission to the degree program. These courses are recommended for completion during the freshman and sophomore years. These courses are indicated with an (*).
- **AE or BADM 1400 (1 hr.) is highly recommended for academic success. AE or BADM 1400 counts as a free choice elective. If AE or BADM 1400 is chosen, 1 less hour of free choice electives will be needed.
- ***A cumulative GPA of 2.50, 21 hours earned at UCM, and 60 hours earned overall is required for enrollment in the Internship (HM 3880).
- **#All Hospitality Management majors must enroll in the IBE Block**. This includes the IBE Practicum (MGT 3385, MKT 3485 or CIS 3685) concurrently with the IBE sections of MGT 3315, MKT 3405 and CIS 3630. This is typically done during the fall of the junior year. Prerequisites for the IBE block include: ACCT 2101, CIS 1600, and junior standing.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- A 2.25 cumulative GPA is required for graduation with in this major.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA after they earn 45 credit hours but before earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

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

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester ENGL 1020 Composition I (GE) HM 1800 Introduction to Hospitality (fall only) General Education Semester Total AE 1400 University Foundations*	Hrs 3 3 9 15 1	Freshman Year - Spring Semester CHEM 1104 Introduction to the Sciences: Chemistry (GE) COMM 1000 Public Speaking or COMM 1050 Fundamentals of Oral Communication Competency (GE) ECON 1010 Principles of Macroeconomics (GE) ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) General Education Managing Information Semester Total	Hrs 4 3 3 2-3 15-16
Sophomore Year - Fall Semester ACCT 2101 Principles of Financial Accounting FOOD 2322 Food Preparation HM 2830 Hospitality Management Case Analysis*** General Education Semester Total	Hrs 3 1 9 16	Sophomore Year - Spring Semester BLAW 2720 Legal Environment of Business FOOD 3332 Quantity Food Production & Service GEOG 2212 World Geography (GE) HM 3844 Restaurant Operations (spring only) General Education Semester Total	Hrs 3 3 3 3 3 3 15
Summer Semester Following Fr. or Soph. Year HM 3810 Internship** Semester Total	Hrs 3 3		
Junior Year - Fall Semester HM 3800 Lodging Management (fall only) HM 3845 Hospitality Operations Analysis (fall only) MGT 3320 Systems, Teams, & Organizational Behavior MGT 3325 Business Communication Semester Total	Hrs 3 3 3 3 12	Junior Year - Spring Semester HM 2830 Hospitality Management Case Analysis*** HM 3825 Events Management (spring only) HM 3830 Tourism Marketing (spring only) HRM 3920 Human Resource Management Free Choice Electives Semester Total	Hrs 1 3 3 4 14
Summer Semester Following Junior Year HM 4810 Internship Semester Total	Hrs 5 5		
Senior Year - Fall Semester HM 4820 Sustainability & Operations Management (fall only) Free Choice Electives Semester Total	Hrs 3 9 12	Senior Year - Spring Semester HM 2830 Hospitality Management Case Analysis*** HM 4845 Senior Seminar (spring only) ¹⁰ Free Choice Electives Semester Total	Hrs 1 3 8-9 12-13

Hotel and Restaurant Administration Major, B.S. Degree - 120 hours

- *AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- **This major requires 8 hours of internship (HM 3810 and HM 4810).
- ***HM 2830 Hospitality Management Case Analysis is a one credit hour course that must be taken three times.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA after they earn 45 credit hours but before earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

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

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester ART 1110 Drawing I ART 1300 Interior Design Drafting I ART 1315 2-D Design ENGL 1020 Composition I (GE) General Education Semester Total AE 1400 University Foundations*	Hrs 3 3 3 3 3 3 15 1	Freshman Year - Spring Semester ART 1120 Drawing II ART 1325 Color and Design ART 2310 Interior Design Studio I ART 2335 3-D Design ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) Semester Total	Hrs 3 3 3 3 3 3 15
Sophomore Year - Fall Semester ART 2300 Interior Design Drafting II ART 2305 Interior Design Presentation Techniques ART 2320 Interior Design Presentation Techniques ART 2320 Interior Design Systems & Sustainability ART 2340 Materials, Methods, and Specifications General Education Semester Total	Hrs 3 3 3 3 3 15	Sophomore Year - Spring Semester ART 1800 Ideas & the Visual Arts (GE) ART 2330 Interior Design Studio II ART 2350 Interior Design Building Codes and Regulations ART 2360 Interior Design Environmental Systems ART Major Elective** Semester Total	Hrs 3 3 3 3 3 15
Junior Year - Fall Semester ART 1835 Global Arts and Culture (GE) ART 3330 Interior Design Studio III ART 3350 Construction Documentation for Interior Design ART 3800 History of Furniture and Interiors I ART Major Elective** General Education Semester Total	Hrs 3 3 3 3 3 3 3 18	Junior Year - Spring Semester ART 3320 Professional Practice for Interior Design I ART 3340 Interior Detailing & Furniture Design ART 3850 History of Furniture and Interiors II ART 4340 Interior Design Studio IV General Education Semester Total	Hrs 1 3 3 6 16
Junior Year - Summer Semester ART 4310 Interior Design Internship Semester Total	Hrs]]		
Senior Year - Fall Semester ART 4221 Art Theory and Criticism ART 4350 Interior Design Thesis I ART 4850 20th Century Art & Architecture General Education Semester Total	Hrs 3 3 6 15	Senior Year - Spring Semester ART 4320 Professional Practice for Interior Designers II ART 4360 Interior Design Thesis II ¹⁰ General Education Semester Total	Hrs 2 3 9 14

Interior Design Major, B.F.A. Degree - 124 hours

- *AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective, however, this program does not require free choice electives.
- **Choose 6 hours of major electives with the ART prefix.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

International Studies Major, B.A. Degree (42-563)

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester ENGL 1020 Composition I (GE) IS 1000 Introduction to International Studies (GE) Modern Language Requirement (GE)* General Education Semester Total AE 1400 University Foundations**	Hrs 3 3 6 15 1	Freshman Year - Spring Semester ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE POLS 2520 Comparative Government and Politics Modern Language Requirement* General Education Semester Total	Hrs 3 3 6 15
Sophomore Year - Fall Semester POLS 2530 World Politics (GE) Major Elective in a Geographic Specialization*** Modern Language Requirement* General Education Semester Total	Hrs 3 3 6 15	Sophomore Year - Spring Semester Free Choice Electives## (Suggested Overseas Study, Internship or Service Learning experience) Semester Total	Hrs 15 15
Junior Year - Fall Semester REL 3010 Religion and Poverty SOC 3885 Globalization and the Future Major Electives in a Content Specialization# Modern Language Requirement* Semester Total	Hrs 3 6 3 15	Junior Year - Spring Semester ANTH 4870 Comparative Cultures (spring only) GEOG 2246 Economic Geography Major Elective in a Content Specialization# Major Elective in a Geographic Specialization*** General Education Semester Total	Hrs 3 3 3 3 3 15
Senior Year - Fall Semester IS 4950 Senior Seminar (fall only) ¹⁰ Major Elective in a Content Specialization# General Education Free Choice Electives Semester Total	Hrs 3 6 3 15	Senior Year - Spring Semester Free Choice Electives Semester Total	Hrs 15 15

International Studies Major, B.A. Degree - 120 hours

- *See the current Undergraduate Catalog for B.A. Degree fulfillment options. This plan is based on 12 hours of modern foreign language. The number of free choice electives required will depend on modern language placement.
- **AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- ***Students will choose six credit hours of Major Electives in a Geographic Specialization from one of the five Geographic Specialization areas (1 African Studies, 2 Asian Studies, 3 European Studies, 4 Latin American Studies, or 5 Middle East Studies). See the 2015 Undergraduate Catalog for course selections.
- #Students will choose 12 credit hours of Major Electives in a Content Specialization from one of the four content Specialization areas (1 The Global Society and Culture, 2 International Relations, Peace and Justice, 3 International Political Economy and Policy Studies, or 4 Human Development and the Physical Environment). A minimum of six credit hours of this 12 must be at the upper level (3000/4000). See the 2015 Undergraduate Catalog for course selections.
- ##Students in this major are required to complete an International Experience Requirement (1 study abroad program, 2 international internship, or 3 - international service learning program). The experience must be approved by the International Studies director.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- Students must earn 30 hours of upper level credits (3000/4000) overall to meet graduation requirements. Make choices in the major electives and/or general education accordingly.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

UNIVERSITY OF CENTRAL MISSOURI

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

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester COMM 1000 Public Speaking or COMM 1050 Fundamentals of Oral Communication Competency (GE) ECON 1010 Principles of Macroeconomics (GE)* ENGL 1020 Composition I (GE) MATH 1111 College Algebra (GE)* General Education or MGT 1320 for an Exhibiting Leadership Major Elective++ Semester Total AE 1400 or BADM 1400 University Foundations**	Hrs 3 3 3 3 3 4 3 15 1	Freshman Year - Spring Semester CIS 1600 Business Information Management (GE)* ECON 1011 Principles of Microeconomics* ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) General Education Semester Total	Hrs 3 3 6 15
Sophomore Year - Fall Semester ACCT 2101 Principles of Financial Accounting* BLAW 2720 Legal Environment of Business* General Education Semester Total	Hrs 3 10 16	Sophomore Year - Spring Semester ACCT 2102 Principles of Managerial Accounting * FIN 2801 Business Statistics I* General Education Free Choice Elective Semester Total Note: Complete all BSBA Admission requirements.*	Hrs 3 6 3 15
Junior Year - Fall Semester FIN 3801 Business Statistics II (IBE Block-below)*** CIS 3630 Management Information Systems*** MGT 3315 Management of Organizations*** MKT 3405 Marketing Policy*** IBE Practicum (CIS 3685/MKT 3485/MGT 3385)*** Semester Total	Hrs 3 3 3 3 3 3 15	Junior Year - Spring Semester FIN 3850 Principles of Finance HRM 3920 Human Resource Management MGT 3320 System, Teams, & Organizational Behavior MGT 3325 Business Communications MGT 3360 Supply Chain and Operations Management Semester Total	Hrs 3 3 3 3 3 3 15
Senior Year - Fall Semester MGT 3345 International Management+ MGT 4310 Quality and Innovation MGT 4325 Management Communication HM 4820 Sustainability & Operations Management (fall only or MGT 4370 Applications in Supply Chain Mgmt.+ Exhibiting Leadership Major Elective++ or General Education (choice will depend on what was taken in first semester) Free Choice Electives (internship recommended) Semester Total	Hrs 1-3 3 3 1-2 14-17	 Senior Year - Spring Semester HM 4820 (fall only) or MGT 4370 or Free Choice Elective+ (if MGT 3345 was taken for 1 hour in the prior semester, take HM 4820 or MGT 4370; if MGT 3345 was taken for 3 hours, take 1 hour of Free Choice Elective) MGT 4320 Leading & Managing Teams & Organizations MGT 4357 Organizational Policy & Strategy¹⁰ Exhibiting Leadership Major Elective++ Free Choice Electives (internship recommended) Semester Total 	Hrs 1 or 3 3 3 3 3 13-15

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

- *Students in this major must complete eight preadmission courses with a grade of C or higher and must obtain a 2.25 cumulative GPA and a 2.25 in these specific courses, for admission to the degree program. These courses are recommended for completion during the freshman and sophomore years. These courses are indicated with an (*).
- **AE or BADM 1400 (1 hr.) is highly recommended for academic success. AE or BADM 1400 counts as a free choice elective.
- *****All Management majors must enroll in the IBE Block**. This includes the IBE Practicum (MGT 3385, MKT 3485 or CIS 3685) concurrently with the IBE sections of MGT 3315, MKT 3405 and CIS 3630. This is typically done during the fall of the junior year. Prerequisites for the IBE block include: ACCT 2101, CIS 1600, and junior standing.
- +Students are required to have 6-7 credit hours of Management Global Perspective major electives. Students must choose MGT 3345 for at least one credit. Students may choose MGT 3345 for one or three credits. MGT 3345 may not be taken for both one hour and three hours. Students who take MGT 3345 for 1 credit hour will take both HM 4820 and MGT 4370. Students who take MGT 3345 for 3 credit hours will choose to take either HM 4820 or MGT 4370. If the latter option is selected students will need 1 additional hour of free choice elective. See the 2015 Undergraduate Catalog for more details.
- ++Students must select 6 credit hours of Exhibiting Leadership major electives from the following list: MGT 1320, 2350, 3335, 3350, ESE 3720 and 3725, or ISP 4000. MGT 1320 is recommended only for the fall semester for first time freshmen. See the 2015 Undergraduate Catalog for more details.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- A 2.25 cumulative GPA is required for graduation in this major.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA after they earn 45 credit hours but before earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

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

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester CIS 1600 Business Information Management (GE)* ECON 1010 Principles of Macroeconomics (GE)* ENGL 1020 Composition I (GE) MATH 1111 College Algebra (GE)* General Education Semester Total MKT 1400 Orientation to Marketing**	Hrs 3 3 3 3 3 3 15 1	Freshman Year - Spring Semester COMM 1000 Public Speaking or COMM 1050 Fundamentals of Oral Communication Competency (GE) ECON 1011 Principles of Microeconomics* ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) General Education Semester Total	Hrs 3 3 6 15
Sophomore Year - Fall Semester ACCT 2101 Principles of Financial Accounting* BLAW 2720 Legal Environment of Business* General Education Semester Total	Hrs 3 3 9 15	Sophomore Year - Spring Semester ACCT 2102 Principles of Managerial Accounting* FIN 2801 Business Statistics 1* General Education Free Choice Electives Semester Total Note: Complete all B.S.B.A. Admission requirements.*	Hrs 3 7 2 15
Junior Year - Fall Semester CIS 3630 Management Information Systems# FIN 3801 Business Statistics II FIN 3850 Principles of Finance MGT 3315 Management of Organizations# MKT 3405 Marketing Policy# Semester Total	Hrs 3 3 3 3 3 3 15	Junior Year - Spring Semester MGT 3325 Business Communications MGT 3360 Supply Chain and Operations Management MKT 3430 Professional Sales MKT 3480 Consumer Behavior Marketing Major Elective***# Semester Total	Hrs 3 3 3 3 3 15
Senior Year - Fall Semester MKT 4460 International Marketing MKT 4470 Marketing Research Marketing Major Electives*** Free Choice Electives Semester Total	Hrs 3 6 3 15	Senior Year - Spring Semester MGT 4357 Organizational Policy & Strategy ¹⁰ MKT 4490 Marketing Management Marketing Major Electives Free Choice Electives Semester Total	Hrs 3 3 6 3 15

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

- *Students in this major must complete eight preadmission courses with a grade of C or higher and must obtain a 2.25 cumulative GPA and a 2.25 in these specific courses, for admission to the degree program. These courses are recommended for completion during the freshman and sophomore years.
- **MKT 1400 is a free choice elective and is highly recommended for academic success. If MKT 1400 is chosen, 1 less hour of free choice electives will be needed.
- ***This major requires 15 credit hours of Marketing electives. Marketing elective classes available are: MKT 1400, MKT 3410, MKT 3420, MKT 3435, MKT 3450, MKT 3460, MKT 4420, MKT 4430, MKT 4440, MKT 4450, MKT 4454, and 4480. See Department Chairperson for advice on major electives.
- #Marketing majors may choose to enroll in the IBE Block. This includes the IBE Practicum (MGT 3385, MKT 3485 or CIS 3685) concurrently with the IBE sections of MGT 3315, MKT 3405 and CIS 3630. This is typically done during the fall of the junior year. Prerequisites for the IBE block include: ACCT 2101, CIS 1600, and junior standing. If this option is chosen, the 3 hours of the practicum class will count towards the Marketing Major Electives hours.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- A 2.25 cumulative GPA is required for graduation in this major.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

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

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester CS 1100 Computer Programming I ENGL 1020 Composition I (GE) MATH 1151 Calculus & Analytic Geometry I (GE) General Education Semester Total AE 1400 University Foundations*	Hrs 3 5 3 14 1	Freshman Year - Spring Semester ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) MATH 1152 Calculus & Analytic Geometry II MATH 2410 Discrete Mathematics General Education Semester Total	Hrs 3 5 3 3 14
Sophomore Year - Fall Semester MATH 2153 Calculus & Analytic Geometry III MATH 3710 Linear Algebra General Education Semester Total	Hrs 3 3 9 15	Sophomore Year - Spring Semester MATH 3151 Differential Equations** Major Elective*** General Education Semester Total	Hrs 3 3 9 15
Junior Year - Fall Semester ACST 3311 Introduction to Mathematical Statistics** MATH 4710 Algebraic Structures** General Education Semester Total	Hrs 3 3 9 15	Junior Year - Spring Semester Major Elective*** Free Choice Electives Semester Total	Hrs 3 13 16
Senior Year - Fall Semester MATH 4150 Advanced Calculus I** MATH 4711 Introduction to Modern Algebra** Free Choice Electives Semester Total	Hrs 3 3 10 16	Senior Year - Spring Semester MATH 4233 The Scientific, Historical, & Sociological Impact of Mathematics ^{**10} Major Elective ^{***} Free Choice Electives Semester Total	Hrs 3 9 15

Mathematics Major, B.S. Degree - 120 hours

- *AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- **This class is only offered during the semester indicated.
- ***This major requires nine hours of Major Electives. See the 2015 Undergraduate Catalog for the list of choices.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- This major does not build in the minimum number (30) of upper-level credit hours required for graduation. Be sure to include upperlevel choices (3000/4000) in your major electives, general education, and/or free choice electives.
- Please note: many Math classes are only offered once a year. The correct sequencing of classes in this major is important. There
 may be time conflicts on occasion that will require choosing alternate courses from another semester's suggested schedule or from
 completely outside of the suggested list. Consult your catalog for options and seek help from your department advisor before seeing
 your academic advisor.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA after they earn 45 credit hours but before earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

UNIVERSITY OF CENTRAL MISSOURI

Mathematics Major, Accelerated M.S. Degree (43-607)

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester CS 1100 Computer Programming I ENGL 1020 Composition I (GE) MATH 1151 Calculus & Analytic Geometry I (GE) General Education Semester Total AE 1400 University Foundations*	Hrs 3 5 3 14 1	Freshman Year - Spring Semester ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) MATH 1152 Calculus & Analytic Geometry II MATH 2410 Discrete Mathematics General Education Semester Total	Hrs 3 5 3 3 14
Sophomore Year - Fall Semester MATH 2153 Calculus & Analytic Geometry III MATH 3710 Linear Algebra General Education Semester Total	Hrs 3 3 9 15	Sophomore Year - Spring Semester MATH 3151 Differential Equations** Major Elective*** General Education Semester Total	Hrs 3 3 9 15
Junior Year - Fall Semester ACST 3311 Introduction to Mathematical Statistics** MATH 4710 Algebraic Structures** General Education Semester Total	Hrs 3 9 15	Junior Year - Spring Semester# Major Elective*** Free Choice Electives Semester Total	Hrs 3 13 16
Senior Year - Fall Semester MATH 4150 Advanced Calculus I** MATH 4711 Introduction to Modern Algebra** Free Choice Electives Semester Total	Hrs 3 3 9 15	 Senior Year - Spring Semester## MATH 4233 The Scientific, Historical, & Sociological Impact of Mathematics**¹⁰ Major Elective*** Graduate-level Elective in MATH### Free Choice Electives Semester Total 	Hrs 3 3 6 15
Fifth Year - Fall Semester MATH 4211 Topology I Graduate-level Electives in MATH### Semester Total	Hrs 3 9 12	Fifth Year - Spring Semester MATH 5150 Advanced Calculus II or MATH 5180 Real Analysis MATH 5711 Adv. Group & Field Theory or MATH 5722 Adv. Ring & Module Theory (these courses alternate with one being offered each spring semester) Graduate-level Elective in MATH### Semester Total	Hrs 3 3 3 9

Mathematics Major, Accelerated M.S. Degree - 140 hours

- *AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- **This class is only offered during the semester indicated.
- ***This program requires nine hours of Major Electives. See the Undergraduate Catalog for the list of choices.
- #See the department and your academic advisor for admission to the program/graduate school.
- ##During the final semester of undergraduate work, students may enroll in only 3 credit hours of graduate-level work. A maximum of 16 hours of credit (undergraduate and graduate combined) is allowed during this term. To maintain eligibility for state and federal financial aid, students must be enrolled in at least 12 undergraduate semester credit hours.
- ###Students must complete a total of 21 hours of graduate-level electives in Math. Three to six hours may be chosen from MATH 5150 and/or MATH 5180; three to six hours may be chosen from MATH 5711 and/or MATH 5722; nine to fifteen hours may be chosen from a list provided in the Undergraduate Catalog with no more than 12 hours at or above the 5900 level.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

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

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/academics/ catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester CS 1100 Computer Programming I ENGL 1020 Composition I (GE) MATH 1151 Calculus & Analytic Geometry I (GE) MATH 1850 Orientation Seminar* General Education Science with Laboratory Semester Total	Hrs 3 5 .5 4 15.5	Freshman Year - Spring Semester ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) HIST 1350 or 1351 History of the United States (GE) MATH 1152 Calculus & Analytic Geometry II General Education Managing Information Semester Total	Hrs 3 5 6 17
Sophomore Year - Fall Semester EDFL 2100 Introduction to the Teaching Profession EDFL 2240 Educational Psychology (GE) FLDX 2150 Introductory Field Experience EDSP 2100 Education of the Exceptional Child MATH 2221 Foundations of Geometry* General Education Semester Total	Hrs 3 1 3 3 3 3 16	Sophomore Year - Spring Semester MATH 2410 Discrete Mathematics MATH 2862 Adv. Perspective on Secondary Geometry & Trig MATH 4851 Prob. & Statistics for Mid./High School Math* POLS 1510 American Government (GE) General Education Semester Total (Successfully complete MoGEA exam by end of this semester)	3 3 3 15
Junior Year - Fall Semester EDFL 2250 Introduction to English Language Learners and Culturally Responsive Pedagogy** EDFL 4210 Introduction to Content Area Literacy FLDX 3000 Field Experience in the Content Area** MATH 2861 Advanced Perspectives on HS Mathematics* General Education Semester Total	Hrs 2 2 1 3 6 14	Junior Year - Spring Semester MATH 3710 Linear Algebra MATH 3850 Strategies in Teaching Secondary Math* EDFL 4212 Literacy in the Disciplines I EDFL 4972 Literacy in the Disciplines II MATH 4233 The Scientific, Historical, Soc. Impact of Math* PSY 4230 Psychology of Adolescence Semester Total	Hrs 3 2 2 10 3 3 16
Senior Year - Fall Semester EDFL 4970 Secondary Teaching & Behavior Management FLDX 4970 Field Experience II in the Content Area MATH 4710 Algebraic Structures* MATH 4880 Issues and Methods of Teaching Secondary Mot MATH 4973 Engaging Secondary Mathematics Learners MATH 4974 Assessment in the Mathematics Classroom General Education Managing Information Free Choice Electives Semester Total (All non-student teaching coursework and tests must be successfully completed by the end of this semester for enrollment in student teaching.)	Hrs 2 1 3 1 1 2 1.5 14.5	Senior Year - Spring Semester+ FLDX 4595 Student Teaching Secondary I FLDX 4468 Student Teaching Secondary II Semester Total	Hrs 6 6 12

Mathematics Major, B.S. in Ed. Degree - 120 hours

- *This course is only offered during the semester indicated.
- **These courses must be taken concurrently.
- +The courses listed for this semester constitute the professional education (student teaching) block. The student should not take any other courses during this semester.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- The Missouri General Education Assessment (MoGEA) is an exam required of all Teacher Education students. Students must pass all areas of the MoGEA for admission to the Teacher Education Program. Students should take and successfully complete the MoGEA before completion of their sophomore year (60 earned hours). See your academic advisor to discuss the classes needed to prepare for the exam.
- Teacher Education candidates must take the appropriate Missouri Content Assessment (MoCA) for their certification area before they
 can student teach, and must pass it in order to be recommended for certification. Information and registration is available on the
 MEGA website: http://www.mo.nesinc.com/.
- See www.ucmo.edu/cert for statement and information (including application) on admission to teacher education. Full admission is required before enrollment in professional education classes and student teaching. The application for student teaching is due approximately one year in advance.

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

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester BIOL 1000 The Discipline of Biology and Earth Science BIOL 1110 Principles of Biology or BIOL 1112 Animal Biology* CHEM 1131 General Chemistry I (GE)# ENGL 1020 Composition I (GE) MATH 1111 College Algebra (GE) Semester Total	Hrs 1 3-4 5 3 3 15-16	Freshman Year - Spring Semester BIOL 2512 Cell Biology BIOL 3401 Human Anatomy CHEM 1132 General Chemistry II# ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) General Education Semester Total	Hrs 3 5 3 3 17
Sophomore Year - Fall Semester BIOL 3402 Human Physiology BIOL 3511 Genetics CHEM 3341 Organic Chemistry I# General Education Semester Total	Hrs 5 4 3 16	Sophomore Year - Spring Semester ACST 1300 Basic Statistics (GE)** or PSY 4.520 Statistics for Behavioral Sciences BIOL 3611 Microbiology BIOL 4.514 Molecular Biology General Education Semester Total	Hrs 3 4 3 6 16
Junior Year - Fall Semester BIOL 4002 Life Science Senior Seminar BIOL 4311 Parasitology CHEM 3421 Intermediate Biochemistry General Education Semester Total	Hrs 1 4 3 8 16	Junior Year - Spring Semester BIOL 3413 Immunology BIOL 4516 Hematology/Virology+ General Education (9 hours needed if ACST 1300 is not chosen above) Semester Total	Hrs 3 3 6-9 12-15
Senior Year - Summer Semester BIOL 4015 Clinical Immunohematology BIOL 4016 Clinical Urinalysis Semester Total	Hrs 4 2 6		
Senior Year - Fall Semester BIOL 4017 Clinical Microbiology BIOL 4018 Clinical Immunology Semester Total	Hrs 7 5 12	Senior Year - Spring Semester BIOL 4019 Clinical Biochemistry BIOL 4020 Clinical Hematology BIOL 4021 Clinical Special Topics ¹⁰ Semester Total	Hrs 7 4 1 12

Medical Technology, B.S. Degree - 122-126 hours++

- *BIOL 1112 is recommended over BIOL 1110.
- #A grade of C or better is required to enroll in future major coursework. See the Undergraduate Catalog for more information.
- **If ACST 1300 is chosen, it will count towards both the major and in general education.
- +BIOL 4516 is only taught in the spring semesters of even numbered years. Adjust your schedule accordingly.
- ++Total degree hours vary based on course choices made in the major (BIOL 1110 or 1112) and possible overlap with general education (ACST 1300 chosen over PSY 4520).
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

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

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester ENGL 1020 Composition I (GE) POLS 1510 American Government (GE) STCH 1003 Great Concepts in Science (GE) General Education Math General Education * Semester Total	Hrs 3 3 3 3 3 3 15	Freshman Year - Spring Semester General Education BIOL, CHEM, EASC, PHYS course w/ lat ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) General Education* Semester Total	Hrs 4 3 9 16
Sophomore Year - Fall Semester EDFL 2100 Introduction to the Teaching Profession FLDX 2150 Introductory Field Experience EDFL 2240 Educational Psychology (GE) EDSP 2100 Education of Exceptional Child HIST 1350 or 1351 History of the United States (GE) General Education* Semester Total	Hrs 3 1 3 3 3 3 16	 Sophomore Year - Spring Semester EDFL 2250 Introduction to English Language Learners and Culturally Responsive Pedagogy STCH 3020 Science & Engineering Practices Complementing Subject Area** Any BIOL, CHEM, EASC, PHYS Courses Semester Total (Successfully complete MoGEA exam by end of this semester) 	Hrs 2 3 6 17
Junior Year - Fall Semester Any BIOL, CHEM, EASC, PHYS Course EDFL 3230 Introduction to Language, Literacy and Literature in the Middle Level Classroom, Block One (fall only) EDFL 4130 Fundamentals of Middle Level Education (fall only Complementing Subject Area** General Education* Semester Total	Hrs 4 4 3 3 16	Junior Year - Spring Semester Any BIOL, CHEM, EASC, PHYS Course EDFL 3240 Application of Content Area Literacy for Middle Level Learners, Block Two (spring only) EDFL 4135 Middle Level Curriculum & Assessment (spring only PSY 3220 Lifespan Development Complementing Subject Area** Semester Total	Hrs 4 (y) 4 3 3 18
Senior Year - Fall Semester EDFL 4340 The Engaging Middle Level Classroom (fall only) STCH 4050 Science Teaching Methods Complementing Subject Area** Semester Total (All non-student teaching coursework and tests must be successfully completed by the end of this semester for enrollment in student teaching.)	Hrs 4 3 6 14	Senior Year - Spring Semester*** FLDX 4497 Student Teaching Middle School I ¹⁰ FLDX 4498 Student Teaching Middle School II Semester Total	Hrs 6 12

Middle School Education Major - General Science Subject Area, B.S. in Ed. Degree - 120 hours minimum

- *Students should work with their academic advisor early for selection of general education courses as most Subject Areas and Complementary Subject Areas have some overlap with general education coursework. This may help to reduce required hours and/ or increase free choice elective hours. Degree hours must total 120, but may require more depending on areas chosen.
- **Middle school majors must choose a complementing subject area. The subject areas are: Business Education, Cross-Categorical Special Education, Engineering and Technology, General Science, Language Arts, Math, Social Science, and Speech/Theatre. Each subject area is 17-24 credit hours. This plan is based on a 18 credit-hour complementing subject area.
- ***The courses listed for this semester constitute the professional education (student teaching) block. The student should not take any other courses during this semester.
- 10This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- The Missouri General Education Assessment (MoGEA) is an exam required of all Teacher Education students. Students must pass all areas of the MoGEA for admission to the Teacher Education Program. Students should take and successfully complete the MoGEA before completion of their sophomore year (60 earned hours). See your academic advisor to discuss the classes needed to prepare for the exam.
- Teacher Education candidates must take the appropriate Missouri Content Assessment (MoCA) for their certification area before they can student teach, and must pass it in order to be recommended for certification. Information and registration is available on the MEGA website: http://www.mo.nesinc.com/.
- See www.ucmo.edu/cert for statement and information (including application) on admission to teacher education. Full admission is required before enrollment in professional education classes and student teaching. The application for student teaching is due approximately one year in advance.

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

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester ENGL 1020 Composition I (GE) POLS 1510 American Government (GE) General Education Math General Education * Semester Total	Hrs 3 3 6 15	Freshman Year - Spring Semester ENGL 1030 Composition II HIST 1350 or 1351 History of the United States (GE) General Education Science w/lab General Education* Semester Total	Hrs 3 4 5 15
Sophomore Year - Fall Semester EDFL 2100 Introduction to the Teaching Profession FLDX 2150 Introductory Field Experience EDFL 2240 Educational Psychology (GE) EDSP 2100 Education of Exceptional Child ENGL 2010, 2020, 2200, 2205, 2210, 2215, or 2220 (GE) Complementing Subject Area** Semester Total	Hrs 3 1 3 3 3 3 16	Sophomore Year - Spring Semester EDFL 2250 Introduction to English Language Learners and Culturally Responsive Pedagogy ENGL 2830 Literature for Adolescents (spring only) Complementing Subject Area** Language Arts Electives in ENGL*** Semester Total (Successfully complete MoGEA exam by end of this semester)	Hrs 2 3 6 4 15
Junior Year - Fall Semester EDFL 3230 Introduction to Language, Literacy and Literature in the Middle Level Classroom, Block One (fall only) EDFL 4130 Fundamentals of Middle Level Education (fall only Complementing Subject Area** General Education* Semester Total	Hrs 4 6 3 17	 Junior Year - Spring Semester EDFL 3240 Application of Content Area Literacy for Middle Level Learners, Block Two (spring only) EDFL 4135 Middle Level Curriculum & Assessment (spring only EDFL 4230 Resp. to Intervent. for MS English LA: Block Three PSY 3220 Lifespan Development Semester Total 	
 Senior Year - Fall Semester EDFL 4235 Methods of Teaching Middle Level English LA EDFL 4240 Integrated English LA Curr. & Assess. for Middle Level Learners: Block Four EDFL 4340 The Engaging Middle Level Classroom (fall only) Complementing Subject Area** General Education* Semester Total (All non-student teaching coursework and tests must be successfully completed by the end of this semester for enrollment in student teaching.) 	Hrs 3 4 6 3 3 16	Senior Year - Spring Semester# FLDX 4497 Student Teaching Middle School I ¹⁰ FLDX 4498 Student Teaching Middle School II Semester Total	Hrs 6 6 12

Middle School Education Major - Language Arts Subject Area, B.S. in Ed. Degree - 120 hours minimum

- *Students should work with their academic advisor early for selection of general education courses as most Subject Areas and Complementary Subject Areas have some overlap with general education coursework. This may help to reduce required hours and/or increase free choice elective hours. Degree hours must total 120, but may require more depending on areas chosen.
- **Middle school majors must choose a complementing subject area. The subject areas are: Business Education, Cross-Categorical Special Education, Engineering and Technology, General Science, Language Arts, Math, Social Science, and Speech/Theatre. Each subject area is 17-24 credit hours. This plan is based on a 18 credit-hour complementing subject area.
- ***The department recommends ENGL 3110 and/or ENGL 4840 (both classes are offered in the fall semester only) for the Language Arts Elective in ENGL.
- #The courses listed for this semester constitute the professional education (student teaching) block. The student should not take any other courses during this semester.
- 10This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- The Missouri General Education Assessment (MoGEA) is an exam required of all Teacher Education students. Students must pass all areas of the MoGEA for admission to the Teacher Education Program. Students should take and successfully complete the MoGEA before completion of their sophomore year (60 earned hours). See your academic advisor to discuss the classes needed to prepare for the exam.
- Teacher Education candidates must take the appropriate Missouri Content Assessment (MoCA) for their certification area before they can student teach, and must pass it in order to be recommended for certification. Information and registration is available on the MEGA website: http://www.mo.nesinc.com/.

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

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester ENGL 1020 Composition I (GE) MATH 1620 Contemporary Math (GE)* POLS 1510 American Government (GE) General Education** Semester Total	Hrs 3 3 6 15	Freshman Year - Spring Semester ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) HIST 1350 or 1351 History of the United States (GE) MATH 1820 Introduction to Mathematical Modeling (GE) MATH 2822 Elements of Geometry* General Education Science with a Laboratory Semester Total	Hrs 3 3 3 4 16
Sophomore Year - Fall Semester EDFL 2100 Introduction to the Teaching Profession FLDX 2150 Introductory Field Experience EDFL 2240 Educational Psychology (GE) EDSP 2100 Education of Exceptional Child MATH 2821 Elements of Algebra* Complementing Subject Area*** Semester Total	Hrs 3 1 3 3 3 16	Sophomore Year - Spring Semester EDFL 2250 Introduction to English Language Learners and Culturally Responsive Pedagogy MATH 2823 Introduction to Infinite Processes* Complementing Subject Area*** General Education** Semester Total (Successfully complete MoGEA exam by end of this semester)	Hrs 2 5 6 3 16
Junior Year - Fall Semester EDFL 3230 Introduction to Language, Literacy and Literature in the Middle Level Classroom, Block One (fall only) EDFL 4130 Fundamentals of Middle Level Education (fall only MATH 3800 Teaching and Learning Numbers* MATH 3802 Concepts and Methods Middle School Math* Complementing Subject Area*** Semester Total	Hrs 4 3 2 3 16	 Junior Year - Spring Semester EDFL 3240 Application of Content Area Literacy for Middle Level Learners, Block Two (spring only) EDFL 4135 Middle Level Curriculum & Assessment (spring only PSY 3220 Lifespan Development MATH 4851 Probability and Statistics Mid/HS Math* General Education Semester Total 	Hrs 4 y)4 3 3 17
Senior Year - Fall Semester EDFL 4340 The Engaging Middle Level Classroom (fall only) MATH 3840 Strategies for Teaching Middle School Math* Complementing Subject Area*** General Education** Semester Total (All non-student teaching coursework and tests must be successfully completed by the end of this semester for enrollment in student teaching.)	Hrs 4 3 6 5 18	Senior Year - Spring Semester# FLDX 4497 Student Teaching Middle School I ¹⁰ FLDX 4498 Student Teaching Middle School II Semester Total	Hrs 6 12

Middle School Education Major - Math Subject Area, B.S. in Ed. Degree - 120 hours minimum

- *Math subject area courses should be taken in the order listed to graduate in four years.
- **Students should work with their academic advisor early for selection of general education courses as most Subject Areas and Complementary Subject Areas have some overlap with general education coursework. This may help to reduce required hours and/ or increase free choice elective hours. Degree hours must total 120, but may require more depending on areas chosen.
- ***Middle school majors must choose a complementing subject area. The subject areas are: Business Education, Cross-Categorical Special Education, Engineering and Technology, General Science, Language Arts, Math, Social Science, and Speech/Theatre. Each subject area is 17-24 credit hours. This plan is based on a 18 credit-hour complementing subject area.
- #The courses listed for this semester constitute the professional education (student teaching) block. The student should not take any other courses during this semester.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- The Missouri General Education Assessment (MoGEA) is an exam required of all Teacher Education students. Students must pass all areas of the MoGEA for admission to the Teacher Education Program. Students should take and successfully complete the MoGEA before completion of their sophomore year (60 earned hours). See your academic advisor to discuss the classes needed to prepare for the exam.
- Teacher Education candidates must take the appropriate Missouri Content Assessment (MoCA) for their certification area before they
 can student teach, and must pass it in order to be recommended for certification. Information and registration is available on the
 MEGA website: http://www.mo.nesinc.com/.
- See www.ucmo.edu/cert for statement and information (including application) on admission to teacher education. Full admission is required before enrollment in professional education classes and student teaching. The application for student teaching is due approximately one year in advance.

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

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester ENGL 1020 Composition I (GE) POLS 1510 American Government (GE) General Education Math General Education* Semester Total	Hrs 3 3 6 15	Freshman Year - Spring Semester ECON 1010 Principles of Macroeconomics <i>ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE)</i> HIST 1350 History of the United States to 1877 (GE) General Education Managing Information <i>General Education Science w/lab</i> Semester Total	Hrs 3 3 2-3 4 15-16
Sophomore Year - Fall Semester EDFL 2100 Introduction to the Teaching Profession FLDX 2150 Introductory Field Experience EDFL 2240 Educational Psychology (GE) EDSP 2100 Education of Exceptional Child HIST 2401 History of the Early Modern World Complementing Subject Area** Semester Total	Hrs 3 1 3 3 3 3 16	Sophomore Year - Spring Semester ECON 1011 Principles of Microeconomics EDFL 2250 Introduction to English Language Learners and Culturally Responsive Pedagogy HIST 2402 History of the Modern World Complementing Subject Area** General Education* Semester Total (Successfully complete MoGEA exam by end of this semester)	Hrs 3 2 3 6 3 17
Junior Year - Fall Semester EDFL 3230 Introduction to Language, Literacy and Literature in the Middle Level Classroom, Block One (fall only) EDFL 4130 Fundamentals of Middle Level Education (fall only) HIST 1351 History of the United States from 1877 Complementing Subject Area** General Education* Semester Total	Hrs 4 3 3 17	Junior Year - Spring Semester EDFL 3240 Application of Content Area Literacy for Middle Level Learners, Block Two (spring only) EDFL 4135 Middle Level Curriculum & Assessment (spring only GEOG 2212 World Geography PSY 3220 Lifespan Development Complementing Subject Area** Semester Total	Hrs 4 y)4 3 3 17
Senior Year - Fall Semester EDFL 4340 The Engaging Middle Level Classroom (fall only) SOSC 4074 Methods of Teaching Social Studies Complementing Subject Area * * General Education * Semester Total (All non-student teaching coursework and tests must be successfully completed by the end of this semester for enrollment in student teaching.)	Hrs 4 3 6 16	Senior Year - Spring Semester*** FLDX 4497 Student Teaching Middle School I ¹⁰ FLDX 4498 Student Teaching Middle School II Semester Total	Hrs 6 6 12

Middle School Education Major - Social Science Subject Area, B.S. in Ed. Degree - 120 hours min.

- *Students should work with their academic advisor early for selection of general education courses as most Subject Areas and Complementary Subject Areas have some overlap with general education coursework. This may help to reduce required hours and/ or increase free choice elective hours. Degree hours must total 120, but may require more depending on areas chosen.
- **Middle school majors must choose a complementing subject area. The subject areas are: Business Education, Cross-Categorical Special Education, Engineering and Technology, General Science, Language Arts, Math, Social Science, and Speech/Theatre. Each subject area is 17-24 credit hours. This plan is based on a 18 credit-hour complementing subject area.
- ***The courses listed for this semester constitute the professional education (student teaching) block. The student should not take any other courses during this semester.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- The Missouri General Education Assessment (MoGEA) is an exam required of all Teacher Education students. Students must pass all areas of the MoGEA for admission to the Teacher Education Program. Students should take and successfully complete the MoGEA before completion of their sophomore year (60 earned hours). See your academic advisor to discuss the classes needed to prepare for the exam.
- Teacher Education candidates must take the appropriate Missouri Content Assessment (MoCA) for their certification area before they can student teach, and must pass it in order to be recommended for certification. Information and registration is available on the MEGA website: http://www.mo.nesinc.com/.
- See www.ucmo.edu/cert for statement and information (including application) on admission to teacher education. Full admission

Modern Languages Major - Area 1: Language and Culture, B.A. Degree (42-01574)

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester ENGL 1020 Composition I (GE) Intermediate I (FREN, GER, or SPAN)*+ General Education Semester Total AE 1400 University Foundations**	Hrs 3 9 15 1	Freshman Year - Spring Semester ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) Intermediate II (FREN, GER, or SPAN)* General Education Semester Total	Hrs 3 3 9 15
Sophomore Year - Fall Semester 2000/3000 level course (FREN, GER, or SPAN)* 3000 level course (FREN, GER, or SPAN)* General Education Semester Total	Hrs 3 3 9 15	Sophomore Year - Spring Semester 3000 level courses (FREN, GER, or SPAN)* General Education Semester Total	Hrs 6 9 15
Junior Year - Fall Semester 3000 level course (FREN, GER, or SPAN)* 3000/4000 level course (FREN, GER, or SPAN)* Free Choice Electives Semester Total	Hrs 3 3 9 15	Junior Year - Spring Semester 4000 level courses (FREN, GER, or SPAN)* Free Choice Electives Semester Total	Hrs 6 9 15
Senior Year - Fall Semester 4000 level course (FREN, GER, or SPAN)* Free Choice Electives Semester Total	Hrs 3 12 15	Senior Year - Spring Semester GISL 4244 Cross-Cultural Cinema ¹⁰ 4000 level course (FREN, GER, or SPAN)* Free Choice Electives (6 hrs. will be validated language cred Semester Total	Hrs 3 3 it) 9 1 5

Modern Languages Major - Area 1: Language and Culture, B.A. Degree - 120 hours (114 hours taken on campus plus 6 hours of "validated credit" or "dual credit".)

- *All 36 hours of the language requirement must be in the same modern foreign language (French, German, or Spanish).
- +Enrollment in Intermediate I requires completion of 6 hours of credit for Elementary Language I and Elementary Language II
 or equivalent proficiency. If you received college credit for these classes while in high school (dual credit), these credits will be
 applied to the major sequence. Students who have taken high school language courses (French, German or Spanish) may enroll
 beyond the Elementary I level, and may apply for Validated Credit for the class(es) skipped. A student completing Elementary II
 with a grade of C or higher will earn three credit hours for Elementary I at no tuition charge; a student completing Intermediate I
 with a grade of C or higher will earn six credit hours for Elementary I and II at no tuition charge.
- **AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- ARE YOU PLANNING TO TEACH A MODERN LANGUAGE? If so choose, Area 2 Professional Applications of the Modern Languages major with the Education Concentration (K-12 Certification).
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA after they earn 45 credit hours but before earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

Modern Languages Major - Area 2: Prof. Apps. - Marketing Concentration, B.A. Degree (42-02574)

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Freshman Year - Fall Semester ENGL 1020 Composition I (GE) Intermediate I (FREN, GER, or SPAN)*+ General Education Semester Total AE 1400 University Foundations**	Hrs 3 9 15 1	Freshman Year - Spring Semester ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) Intermediate II (FREN, GER, or SPAN)* General Education Semester Total	Hrs 3 3 9 15
Sophomore Year - Fall Semester 2000/3000 level course (FREN, GER, or SPAN)* 3000 level course (FREN, GER, or SPAN)* General Education Semester Total	Hrs 3 9 15	Sophomore Year - Spring Semester Major Marketing Concentration Elective 3000 level courses (FREN, GER, or SPAN)* General Education Semester Total	Hrs 3 6 6 15
Junior Year - Fall Semester MKT 3405 Marketing Policy Major Marketing Concentration Elective 3000 level course (FREN, GER, or SPAN)* 3000/4000 level course (FREN, GER, or SPAN)* General Education Semester Total	Hrs 3 3 3 3 3 3 1 5	Junior Year - Spring Semester MGT 3315 Management of Organizations MKT 3430 Professional Sales 4000 level courses (FREN, GER, or SPAN)* Free Choice Electives Semester Total	Hrs 3 6 3 15
Summer between Junior & Senior Year - Summer Semester MKT 3435 Internship in Marketing Semester Total	Hrs 6 6		
Senior Year - Fall Semester Major Marketing Concentration Elective MKT 3480 Consumer Behavior 4000 level course (FREN, GER, or SPAN)* Free Choice Elective (validated credit) Semester Total	Hrs 3 3 3 3 12	Senior Year - Spring Semester GISL 4244 Cross-Cultural Cinema ¹⁰ MKT 4460 International Marketing ML 4050 Language in the Professions/Translation Free Choice Electives (validated language credit) Semester Total	Hrs 3 3 3 3 12

Modern Languages Major - Area 2: Professional Applications - Marketing Concentration, B.A. Degree - 120 hours (114 hours taken on campus plus 6 hours of "validated credit" or "dual credit".)

- *All 33 hours of the language requirement must be in the same modern foreign language (French, German, or Spanish).
- +Enrollment in Intermediate I requires completion of 6 hours of credit for Elementary Language I and Elementary Language II
 or equivalent proficiency. If you received college credit for these classes while in high school (dual credit), these credits will be
 applied to the major sequence. Students who have taken high school language courses (French, German or Spanish) may enroll
 beyond the Elementary I level, and may apply for Validated Credit for the class(es) skipped. A student completing Elementary II
 with a grade of C or higher will earn three credit hours for Elementary I at no tuition charge; a student completing Intermediate I
 with a grade of C or higher will earn six credit hours for Elementary I and II at no tuition charge.
- **AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- ARE YOU PLANNING TO TEACH A MODERN LANGUAGE? If so choose, Area 2 Professional Applications of the Modern Languages major with the Education Concentration (K-12 Certification).
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA after they earn 45 credit hours but before earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

Modern Languages Major - Area 2: Prof. Apps. - Criminal Justice Concentration, B.A. Degree (42-02574)

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Freshman Year - Fall Semester CJ 1000 Introduction to Criminal Justice (GE) ENGL 1020 Composition I (GE) Intermediate I (FREN, GER, or SPAN)*+ General Education Semester Total AE 1400 University Foundations**	Hrs 3 3 6 15 1	Freshman Year - Spring Semester CJ 2300 Criminal Law and Procedure ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) Intermediate II (FREN, GER, or SPAN)* General Education Semester Total	Hrs 3 3 3 6 15
Sophomore Year - Fall Semester CJ 3006 Corrections 2000/3000 level course (FREN, GER, or SPAN)* 3000 level course (FREN, GER, or SPAN)* General Education Semester Total	Hrs 3 3 3 6 15	Sophomore Year - Spring Semester CJ 3010 Policing a Democratic Society 3000 level courses (FREN, GER, or SPAN)* General Education Semester Total	Hrs 3 6 15
Junior Year - Fall Semester CJ 3020 Comparative Justice Systems 3000 level course (FREN, GER, or SPAN)* 3000/4000 level course (FREN, GER, or SPAN)* General Education Semester Total	Hrs 3 3 6 15	Junior Year - Spring Semester CJ 4503 Dynamics of Criminal Behavior CJ Elective 4000 level courses (FREN, GER, or SPAN)* Free Choice Elective Semester Total	Hrs 3 6 3 15
Summer between Junior & Senior Year CJ 4602 Internship in Criminal Justice Semester Total	Hrs 3 3		
Senior Year - Fall Semester CJ Electives 4000 level course (FREN, GER, or SPAN)* General Education Free Choice Elective Semester Total	Hrs 6 3 3 3 15	Senior Year - Spring Semester GISL 4244 Cross-Cultural Cinema ¹⁰ ML 4050 Language in the Professions/Translation Free Choice Electives (validated language credit) Semester Total	Hrs 3 3 6 12

Modern Languages Major - Area 2: Professional Applications - Criminal Justice Concentration, B.A. Degree - 120 hours

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

- *All 33 hours of the language requirement must be in the same modern foreign language (French, German, or Spanish).
- +Enrollment in Intermediate I requires completion of 6 hours of credit for Elementary Language I and Elementary Language II
 or equivalent proficiency. If you received college credit for these classes while in high school (dual credit), these credits will be
 applied to the major sequence. Students who have taken high school language courses (French, German or Spanish) may enroll
 beyond the Elementary I level, and may apply for Validated Credit for the class(es) skipped. A student completing Elementary II
 with a grade of C or higher will earn three credit hours for Elementary I at no tuition charge; a student completing Intermediate I
 with a grade of C or higher will earn six credit hours for Elementary I and II at no tuition charge.
- **AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- ARE YOU PLANNING TO TEACH A MODERN LANGUAGE? If so choose, Area 2 Professional Applications of the Modern Languages major with the Education Concentration (K-12 Certification).
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA after they earn 45 credit hours but before earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

Modern Languages Major - Area 2: Prof. Apps. - Hospitality Management Concentration, B.A. Degree (42-02574)

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Freshman Year - Fall Semester ENGL 1020 Composition I (GE) HM 1800 Introduction to Hospitality (fall only) Intermediate I (FREN, GER, or SPAN)*+ General Education Semester Total AE 1400 University Foundations**	Hrs 3 3 6 15 1	Freshman Year - Spring Semester ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) HM 2830 Hospitality Management Case Analysis*** Intermediate II (FREN, GER, or SPAN)* General Education Semester Total	Hrs 3 1 3 9 16
Sophomore Year - Fall Semester ACCT 2101 Principles of Financial Accounting 2000/3000 level course (FREN, GER, or SPAN)* 3000 level course (FREN, GER, or SPAN)* General Education (COMM 1000 or 1050 recommended)# Semester Total	Hrs 3 3 3 6 15	Sophomore Year - Spring Semester HM 2830 Hospitality Management Case Analysis*** 3000 level courses (FREN, GER, or SPAN)* General Education Semester Total	Hrs 1 6 13
Junior Year - Fall Semester HM 3800 Lodging Management MGT 3325 Business Communication# 3000 level course (FREN, GER, or SPAN)* 3000/4000 level course (FREN, GER, or SPAN)* General Education Semester Total	Hrs 3 3 3 3 3 3 15	Junior Year - Spring Semester HM 3825 Events Management MGT 3320 Systems, Teams, and Organizational Behavior 4000 level courses (FREN, GER, or SPAN)* General Education Free Choice Electives Semester Total	Hrs 3 3 3 3 3 15
Summer between Junior & Senior Year HM 3810 Internship in Hotel and Restaurant Management Semester Total	Hrs 3 3		
Senior Year - Fall Semester HM 2830 Hospitality Management Case Analysis*** HM 3844 Restaurant Operations 4000 level course (FREN, GER, or SPAN)* Free Choice Electives (validated language credit)+ Semester Total	Hrs 1 3 6 13	Senior Year - Spring Semester GISL 4244 Cross-Cultural Cinema ¹⁰ HRM 3920 Human Resource Management ML 4050 Language in the Professions/Translation 4000 level courses (FREN, GER, or SPAN)* Free Choice Elective Semester Total	Hrs 3 3 3 3 3 3 15

Modern Languages Major - Area 2: Professional Applications - Hospitality Management Concentration, B.A. Degree - 120 hours

(114 hours taken on campus plus 6 hours of "validated credit" or "dual credit" for language Elementary I and II.)

- *All 33 hours of the language requirement must be in the same modern foreign language (French, German, or Spanish).
- +Enrollment in Intermediate I requires completion of 6 hours of credit for Elementary Language I and Elementary Language II
 or equivalent proficiency. If you received college credit for these classes while in high school (dual credit), these credits will be
 applied to the major sequence. Students who have taken high school language courses (French, German or Spanish) may enroll
 beyond the Elementary I level, and may apply for Validated Credit for the class(es) skipped. A student completing Elementary II
 with a grade of C or higher will earn three credit hours for Elementary I at no tuition charge; a student completing Intermediate I
 with a grade of C or higher will earn six credit hours for Elementary I and II at no tuition charge.
- **AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- ***HM 2830 Hospitality Management Case Analysis is a one-credit hour course that must be repeated for a total of three credit hours.
- #MGT 3325 requires a prerequisite of either COMM 1000 or 1050. Either of these classes will fulfill the Communication requirement in General Education.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- ARE YOU PLANNING TO TEACH A MODERN LANGUAGE? If so choose, Area 2 Professional Applications of the Modern Languages major with the Education Concentration (K-12 Certification).
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA after they earn 45 credit hours but before earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

Modern Languages Major - Area 2: Prof. Apps. - Public Relations Concentration, B.A. Degree (42-02574)

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Freshman Year - Fall Semester ENGL 1020 Composition I (GE) Intermediate I (FREN, GER, or SPAN)*+ General Education Semester Total AE 1400 University Foundations**	Hrs 3 9 15 1	Freshman Year - Spring Semester ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) Intermediate II (FREN, GER, or SPAN)* General Education Semester Total	Hrs 3 9 15
Sophomore Year - Fall Semester COMM 2620 Introduction to Public Relations 2000/3000 level course (FREN, GER, or SPAN)* 3000 level course (FREN, GER, or SPAN)* General Education Semester Total	Hrs 3 3 6 15	Sophomore Year - Spring Semester COMM 2625 Writing & Editing for Public Relations 3000 level courses (FREN, GER, or SPAN)* General Education Semester Total	Hrs 3 6 15
Junior Year - Fall Semester COMM 3620 Strategic Planning for Public Relations 3000 level course (FREN, GER, or SPAN)* 3000/4000 level course (FREN, GER, or SPAN)* General Education Free Choice Elective Semester Total	Hrs 3 3 3 3 3 15	Junior Year - Spring Semester COMM 3010 Interpersonal Communication COMM 4680 Advanced PR Writing 4000 level courses (FREN, GER, or SPAN)* Free Choice Elective Semester Total	Hrs 3 6 3 15
Summer between Junior & Senior Year COMM 4605 PR Internship Semester Total	Hrs 3 3		
Senior Year - Fall Semester COMM 3100 Communication Research Methods COMM 3340 Intercultural Communication (GE) COMM 4670 Strategic Crisis Communication POLS 4520 Principles of International Development Free Choice Elective Semester Total	Hrs 3 3 3 3 3 15	Senior Year - Spring Semester GISL 4244 Cross-Cultural Cinema ¹⁰ ML 4050 Language in the Professions/Translation 4000 level courses (FREN, GER, or SPAN)* Free Choice Elective Semester Total	Hrs 3 3 3 3 12

Modern Languages Major - Area 2: Professional Applications - Public Relations Concentration, B.A. Degree - 120 hours

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

- *All 33 hours of the language requirement must be in the same modern foreign language (French, German, or Spanish).
- +Enrollment in Intermediate I requires completion of 6 hours of credit for Elementary Language I and Elementary Language II
 or equivalent proficiency. If you received college credit for these classes while in high school (dual credit), these credits will be
 applied to the major sequence. Students who have taken high school language courses (French, German or Spanish) may enroll
 beyond the Elementary I level, and may apply for Validated Credit for the class(es) skipped. A student completing Elementary II
 with a grade of C or higher will earn three credit hours for Elementary I at no tuition charge; a student completing Intermediate I
 with a grade of C or higher will earn six credit hours for Elementary I and II at no tuition charge.
- **AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- ARE YOU PLANNING TO TEACH A MODERN LANGUAGE? If so choose, Area 2 Professional Applications of the Modern Languages major with the Education Concentration (K-12 Certification).
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA after they earn 45 credit hours but before earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

Modern Languages Major - Area 2: Prof. Apps. - Education Concentration (K-12 Cert.), B.A. Degree (42-02574)

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Freshman Year - Fall Semester ENGL 1020 Composition I (GE) POLS 1510 American Government (GE) Intermediate I (FREN, GER, or SPAN)*+ General Education Science w/lab** General Education Math Semester Total AE 1400 University Foundations***	Hrs 3 3 4 3 16 1	Freshman Year - Spring Semester ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) HIST 1350 or 1351 History of the United States (GE) Intermediate II (FREN, GER, or SPAN)* General Education Managing Information General Education Semester Total	Hrs 3 3 2-3 3 14-15
Sophomore Year - Fall Semester 2000/3000 level course (FREN, GER, or SPAN)* 3000 level course (FREN, GER, or SPAN)* (Foundations Block)# EDFL 2100 Introduction to the Teaching Profession FLDX 2150 Introductory Field Experience EDFL 2240 Educational Psychology EDSP 2100 Education of the Exceptional Child Semester Total	Hrs 3 3 1 3 3 3 16	Sophomore Year - Spring Semester 3000 level courses (FREN, GER, or SPAN)* General Education Semester Total (Successfully complete MoGEA exam by end of this semester)	Hrs 6 9 15
Junior Year - Fall Semester 3000 level course (FREN, GER, or SPAN)* 4000 level course (FREN, GER, or SPAN)* General Education Free Choice Electives (6 hrs. will be validated language crea Semester Total	Hrs 3 3 3 dit) 9 18	Junior Year - Spring Semester EDFL 2250 Introduction to English Language Learners and Culturally Responsive Pedagogy EDFL 4210 Introduction to Content Area Literacy EDFL 4974 Content Specific Assessment FLDX 3000 Field Experience in the Content Area PSY 4230 Psychology of Adolescence (GE) 4000 level courses (FREN, GER, or SPAN)* Semester Total	Hrs 2 2 1 1 3 6 15
Senior Year - Fall Semester EDFL 4970 Secondary Teaching & Behavior Management EDFL 4971 K-12 Content Area Literacy EDFL 4973 Classroom Management in Content Areas FLDX 4970 Field Experience II in the Content Area ML 4054 Methods of Teaching Foreign Language 4000 level course (FREN, GER, or SPAN)* Free Choice Electives Semester Total	Hrs 2 1 1 3 2-3 13-14	Senior Year - Spring Semester FLDX 4468 Student Teaching Secondary II ¹⁰ FLDX 4496 Student Teaching Elementary II Semester Total (All non-student teaching coursework and tests must be successfully completed before this semester for enrollment in student teaching.)	Hrs 4 8 12

Modern Languages Major - Area 2: Professional Applications - Education Concentration (K-12 Certification), B.A. Degree 120 hours

(114 hours taken on campus plus six hours of "validated credit" or "dual credit".)

- *All 33 hours of the language requirement must be in the same modern foreign language (French, German, or Spanish).
- +Enrollment in Intermediate I requires completion of 6 hours of credit for Elementary Language I and Elementary Language II or equivalent proficiency. If you received college credit for these classes while in high school (dual credit), these credits will be applied to the major sequence. Students who have taken high school language courses (French, German or Spanish) may enroll beyond the Elementary I level, and may apply for Validated Credit for the class(es) skipped. A student completing Elementary II with a grade of C or higher will earn three credit hours for Elementary I at no tuition charge; a student completing Intermediate I with a grade of C or higher will earn six credit hours for Elementary I and II at no tuition charge.
- #These four courses must be taken as a block, see your academic advisor for enrollment.
- ** Students pursuing the Education Concentration must complete a biology prefix.
- ***AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- 10This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- The Missouri General Education Assessment (MoGEA) is an exam required of all Teacher Education students. Students must pass all areas of the MoGEA for admission to the Teacher Education Program. Students should take and successfully complete the MoGEA before completion of their sophomore year (60 earned hours). See your academic advisor to discuss the classes needed to prepare for the exam.
- Teacher Education candidates must take the appropriate Missouri Content Assessment (MoCA) for their certification area before they can student teach, and must pass it in order to be recommended for certification. Information and registration is available on the MEGA website: http://www.mo.nesinc.com/.
- See www.ucmo.edu/cert for statement and information (including application) on admission to teacher education. Full admission is required before enrollment in professional education classes and student teaching. The application for student teaching is due approximately one year in advance.

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

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Freshman Year - Fall Semester ENGL 1020 Composition I (GE) MUS 1000 Recital Attendance MUS 1100 Fundamentals of Music+* or General Education MUS 1225 Music of the World's Cultures (GE) Major Instrument or Voice, 1000 Level Major Large Ensemble Modern Language Requirement (GE)** Semester Total AE 1400 University Foundations***	Hrs 3 0 3 1 1 3 14 1	Freshman Year - Spring Semester ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE MUS 1000 Recital Attendance MUS 1111 Theory I* MUS 1121 Aural Training I* Major Instrument or Voice, 1000 Level Major Large Ensemble Modern Language Requirement** General Education Semester Total	Hrs 3 0 3 1 1 3 3 15
Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
ENGL 2220 World Masterpieces (GE)**	3	MUS 1000 Recital Attendance	0
MUS 1000 Recital Attendance	0	MUS 2111 Theory III*	3
MUS 1112 Theory II*	3	MUS 2121 Aural Training III*	1
MUS 1122 Aural Training II*	1	MUS 2222 Introduction to Music Literature II*	2
MUS 2221 Introduction to Music Literature I*	2	Major Instrument or Voice, 1000 Level	1
Major Instrument or Voice, 1000 Level	1	Minor Coursework	3
General Education	6	General Education	6
Semester Total	16	Semester Total	16
Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
MUS 1000 Recital Attendance	0	MUS 1000 Recital Attendance	0
MUS 3211 Music History to 1750*	3	MUS 3212 Music History 1750-Present (GE)*	3
Major Instrument or Voice, 3000 Level	1.5	Major Instrument or Voice, 3000 Level	1.5
Minor Coursework	6	Minor Coursework	6
General Education	6	General Education	3
Semester Total	16.5	Semester Total	13.5
Senior Year - Fall Semester Major Instrument or Voice, 3000 Level Elective in Music Minor Coursework Free Choice Electives Semester Total	Hrs 1.5 3 8 15.5	Senior Year - Spring Semester MUS 4000 ¹⁰ Special Projects, 4060 ¹⁰ Senior Recital, 4430 ¹⁰ Sem. in Music Technology, or 4514 ¹⁰ Piano Pedagogy IV - Seminar Major Instrument or Voice, 3000 Level Minor Coursework Free Choice Electives Semester Total	Hrs 2-3 1.5 3 6-7 13.5

Music Major, B.A. Degree - 120 hours

- +MUS 1100 with a grade of C or better may be required as a prerequisite to MUS 1111 if the student does not pass this course by the admission examination.
- *This course is only offered during the semester listed.
- **Refer to the Bachelor's Degree Requirements section in the catalog for the B.A. Modern Language requirement. This plan is based on two modern language courses and ENGL 2220 for General Education Literature.
- ***AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- This plan is based on a 21-hour minor.
- This major does not build in the minimum number (30) of upper-level credit hours required for graduation. Be sure to include upperlevel choices (3000/4000) in your major electives, minor, general education, and/or free choice electives.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

Music Major (Area 1 Instrumental - odd year start), B.M. Degree (44-01472)

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Freshman Year - Fall Semester ENGL 1020 Composition I (GE) MUS 1000 Recital Attendance MUS 1100 Fundamentals of Music+* or General Education MUS 2221 Introduction to Music Literature 1* Major Instrument, 1000 Level Major Large Instrument Ensemble (Piano Class I)** General Education Semester Total	Hrs 3 0 3 2 1 (1) 3 14	Freshman Year - Spring Semester ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) MUS 1000 Recital Attendance MUS 1111 Theory 1* MUS 1121 Aural Training 1* MUS 1225 Music of the World's Cultures (GE) MUS 2222 Introduction to Music Literature II* Major Instrument, 1000 Level Major Instrument, 1000 Level Major Class II)** Semester Total	Hrs 3 0 3 1 3 2 2 1 (1) 15
Sophomore Year - Fall Semester MUS 1000 Recital Attendance MUS 1112 Theory II* MUS 1122 Aural Training II* MUS 2300 Fundamentals of Conducting* Instrumental Music Elective Major Instrument, 1000 Level Major Large Instrument Ensemble (Piano Class III)** General Education Semester Total	Hrs 0 3 1 3 1 2 1 (1) 6 17	Sophomore Year - Spring Semester MUS 1000 Recital Attendance MUS 2111 Theory III* MUS 2121 Aural Training III* MUS Electives Instrumental Music Elective Major Instrument, 1000 Level Major Large Instrument Ensemble [Piano Class IV]** General Education Semester Total	Hrs 0 3 1 1 2 1 (1) 6 15
Junior Year - Fall Semester MUS 1000 Recital Attendance MUS 2112 Theory IV* MUS 2122 Aural Training IV* MUS 3211 Music History to 1750* MUS 4125 Form & Analysis (only offered Fall semesters of odd numbered years) Major Instrument, 3000 Level Major Large Instrument Ensemble Semester Total	Hrs 0 3 1 3 3 3 1 14	Junior Year - Spring Semester MUS 1000 Recital Attendance MUS 3060 Junior Recital MUS 3212 Music History 1750-Present (GE)* MUS Electives MUS Required Elective*** Major Instrument, 3000 Level Major Large Instrument Ensemble General Education Semester Total	Hrs 0 1 3 3 3 3 1 3 1 3 17
Senior Year - Fall Semester MUS 1000 Recital Attendance MUS 4240, 4245, 4250, or 4255 Instrumental Lit. & Ped. MUS Electives Major Instrument, 3000 Level Small Instrumental Ensemble General Education Semester Total	Hrs 0 2 3 1 6 15	Senior Year - Spring Semester MUS 1000 Recital Attendance MUS 4060 Senior Recital ¹⁰ Major Instrument, 3000 Level MUS Electives Small Instrumental Ensemble General Education (only 3 hours of General Education are needed here if the other 3 hours were taken in the first semester instead of MUS 1100) Free Choice Elective Semester Total	Hrs 0 2 3 1 3-6 1 13-15

Music Major (Area 1 Instrumental - odd year start), B.M. Degree - 120 hours

- +MUS 1100 with a grade of C or better may be required as a prerequisite to MUS 1111 if the student does not pass this course by the admission examination.
- *This course is only offered during the semester listed.
- **Keyboard competency is required for this degree program. Private piano lessons may be required to reach competency.
- ***For the MUS Required Elective choose among the following three courses: MUS 4101 Counterpoint I (offered fall semester of even numbered years only), MUS 4115 Instrumentation (offered spring semester), or MUS 4185 Jazz-Commercial Arranging (offered spring semester of odd numbered years only).
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

Music Major (Area 1 Instrumental - even year start), B.M. Degree (44-01472)

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Freshman Year - Fall Semester ENGL 1020 Composition I (GE) MUS 1000 Recital Attendance MUS 1100 Fundamentals of Music+* or General Education MUS 2221 Introduction to Music Literature 1* Major Instrument, 1000 Level Major Large Instrument Ensemble (Piano Class I)** General Education Semester Total	Hrs 3 0 3 2 2 1 (1) 3 14	Freshman Year - Spring Semester ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) MUS 1000 Recital Attendance MUS 1111 Theory I* MUS 1121 Aural Training I* MUS 1225 Music of the World's Cultures (GE) MUS 2222 Introduction to Music Literature II* Major Instrument, 1000 Level Major Large Instrument Ensemble (Piano Class II)** Semester Total	Hrs 3 0 3 1 3 2 2 1 (1) 15
Sophomore Year - Fall Semester MUS 1000 Recital Attendance MUS 1112 Theory II* MUS 1122 Aural Training II* MUS 2300 Fundamentals of Conducting* Instrumental Music Elective Major Instrument, 1000 Level Major Large Instrument Ensemble (Piano Class III)** General Education Semester Total	Hrs 0 3 1 3 1 2 1 (1) 6 17	Sophomore Year - Spring Semester MUS 1000 Recital Attendance MUS 2111 Theory III* MUS 2121 Aural Training III* MUS Electives Instrumental Music Elective Major Instrument, 1000 Level Major Large Instrument Ensemble (Piano Class IV)** General Education Semester Total	Hrs 0 3 1 1 2 1 (1) 6 15
Junior Year - Fall Semester MUS 1000 Recital Attendance MUS 2112 Theory IV* MUS 2122 Aural Training IV* MUS 3211 Music History to 1750* MUS Required Elective*** Major Instrument, 3000 Level Major Large Instrument Ensemble General Education Semester Total	Hrs 0 3 1 3 3 3 1 3 1 3 17	Junior Year - Spring Semester MUS 1000 Recital Attendance MUS 3060 Junior Recital MUS 3212 Music History 1750-Present (GE)* MUS Electives Major Instrument, 3000 Level Major Large Instrument Ensemble General Education Semester Total	Hrs 0 1 3 3 3 1 3 1 1 4
 Senior Year - Fall Semester MUS 1000 Recital Attendance MUS 4125 Form & Analysis (only offered Fall semesters of odd numbered years) MUS 4240, 4245, 4250, or 4255 Instrumental Lit. & Ped. MUS Electives Major Instrument, 3000 Level Small Instrumental Ensemble General Education Semester Total 	Hrs 0 3 2 3 3 1 3 15	 Senior Year - Spring Semester MUS 1000 Recital Attendance MUS 4060 Senior Recital¹⁰ Major Instrument, 3000 Level MUS Electives Small Instrumental Ensemble General Education (only 3 hours of General Education are needed here if the other 3 hours were taken in the first semester instead of MUS 1100) Free Choice Elective Semester Total 	Hrs 0 2 3 3 1 3-6 1 13-15

Music Major (Area 1 Instrumental - even year start), B.M. Degree - 120 hours

- +MUS 1100 with a grade of C or better may be required as a prerequisite to MUS 1111 if the student does not pass this course by the admission examination.
- *This course is only offered during the semester listed.
- **Keyboard competency is required for this degree program. Private piano lessons may be required to reach competency.
- ***For the MUS Required Elective choose among the following three courses: MUS 4101 Counterpoint I (offered fall semester of even numbered years only), MUS 4115 Instrumentation (offered spring semester), or MUS 4185 Jazz-Commercial Arranging (offered spring semester of odd numbered years only).
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

Music Major (Area 2 Jazz-Commercial Music - odd year start), B.M. Degree (44-02472)

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Freshman Year - Fall Semester ENGL 1020 Composition I (GE) MUS 1000 Recital Attendance MUS 1085 Jazz-Rock Combo MUS 1100 Fundamentals of Music+* or General Education MUS 1400 Computer Music Notation MUS 1450 Audio and Acoustics (GE) Major Large Jazz Ensemble Major Instrument, 1000 Level (Piano Class I)** General Education Semester Total	Hrs 3 0 1 3 .5 3 1 2 (1) 3 16.5	Freshman Year - Spring Semester ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) MUS 1000 Recital Attendance MUS 1111 Theory I* MUS 1121 Aural Training I* MUS 1281 History & Development of Jazz (GE)* Major Instrument, 1000 Level Major Large Jazz Ensemble Major Large Non-Jazz Ensemble (Piano Class II)**	Hrs 3 0 3 1 3 2 1 1 (1) 14
Sophomore Year - Fall Semester MUS 1000 Recital Attendance MUS 1112 Theory II* MUS 1122 Aural Training II* MUS 1225 Music of the World's Cultures (GE) MUS 2180 Jazz Improvisation I* MUS 2300 Fundamentals of Conducting* Major Large Jazz Ensemble Major Instrument, 1000 Level Major Large Non-Jazz Ensemble (Piano Class III)** Semester Total	Hrs 0 3 1 3 2 3 1 2 1 (1) 16	Sophomore Year - Spring Semester MUS 1000 Recital Attendance MUS 1410 or 1420 or 1430 or 1440 MUS 2111 Theory III* MUS 2121 Aural Training III* MUS 2141 Composition I MUS 2181 Jazz Improvisation II* Major Large Jazz Ensemble Major Instrument, 1000 Level (Piano Class IV)** General Education Semester Total	Hrs 0 .5 3 1 3 2 1 2 (1) 3 15.5
Junior Year - Fall Semester MUS 1000 Recital Attendance MUS 2112 Theory IV* MUS 2122 Aural Training IV* MUS 3211 Music History to 1750* MUS 4125 Form & Analysis (only offered Fall semesters of odd numbered years) Major Large Jazz Ensemble Major Instrument, 3000 Level Semester Total	Hrs 0 3 1 3 3 1 3 14	Junior Year - Spring Semester MUS 1000 Recital Attendance MUS 1085 Jazz-Rock Combo MUS 3060 Junior Recital MUS 3212 Music History 1750Present (GE)* MUS 4181 Advanced Jazz Improvisation (fall only) or MUS 4186 Advanced Jazz-Commercial Arranging *** Major Large Jazz Ensemble Major Instrument, 3000 Level General Education Semester Total	Hrs 0 1 1 3 2 1 3 3 14
 Senior Year - Fall Semester MUS 1000 Recital Attendance MUS 4181 Advanced Jazz Improvisation* or MUS 4186 Advanced Jazz-Commercial Arranging*** MUS electives Major Instrument, 3000 Level General Education (or save 3 hours for next semester if full-tim status is needed) Semester Total Fifth Year - Fall Semester MUS 4181 Advanced Jazz Improvisation* or MUS 4181 Advanced Jazz Improvisation* or 	Hrs 0 2 2 3 16 Hrs	 Senior Year - Spring Semester MUS 1000 Recital Attendance MUS 4060 Senior Recital¹⁰ MUS 4185 Jazz-Commercial Arranging (only offered Spring semesters of odd numbered years) Major Instrument, 3000 Level General Education (only 6 hours of General Education are needed here if the other 3 hours were taken in the first semester instead of MUS 1100) Free Choice Electives (not needed if MUS 1100 taken) Semester Total 	Hrs 0 2 3 3 3 3-6 0-1 11-14

Music Major (Area 2 Jazz-Commercial Music - odd year start), B.M. Degree - 120

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 +MUS 1100 with a grade of C or better may be required as a prerequisite to MUS 1111 if the student does not pass this course by the admission examination.

• *This course is only offered during the semester listed.

MUS 4186 Advanced Jazz-Commercial Arranging***

Semester Total

- **Keyboard competency is required for this degree program. Private piano lessons may be required to reach competency.
- ***This course requires the prerequisite of MUS 4185. If chosen, adjust schedule to take after 4185. This course is only offered as needed by the department. See department for projected course offerings.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

Music Major (Area 2 Jazz-Commercial Music - even year start), B.M. Degree (44-02472)

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Freshman Year - Fall Semester ENGL 1020 Composition I (GE) MUS 1000 Recital Attendance MUS 1085 Jazz-Rock Combo MUS 1100 Fundamentals of Music+* or General Education MUS 1400 Computer Music Notation MUS 1450 Audio and Acoustics (GE) Major Large Jazz Ensemble Major Instrument, 1000 Level [Piano Class I]** General Education Semester Total	Hrs 3 0 1 3 .5 3 1 2 (1) 3 16.5	Freshman Year - Spring Semester ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) MUS 1000 Recital Attendance MUS 1111 Theory I* MUS 1121 Aural Training I* Major Instrument, 1000 Level Major Large Jazz Ensemble Major Large Non-Jazz Ensemble (Piano Class II)** General Education Semester Total	Hrs 3 0 3 1 2 1 1 (1) 6 17
Sophomore Year - Fall Semester MUS 1000 Recital Attendance MUS 1112 Theory II* MUS 1122 Aural Training II* MUS 1225 Music of the World's Cultures (GE) MUS 2180 Jazz Improvisation I* MUS 2300 Fundamentals of Conducting* Major Large Jazz Ensemble Major Instrument, 1000 Level Major Large Non-Jazz Ensemble (Piano Class III)** Semester Total	Hrs 0 3 1 3 2 3 1 2 1 (1) 16	Sophomore Year - Spring Semester MUS 1000 Recital Attendance MUS 1281 History & Development of Jazz (GE)* MUS 1410 or 1420 or 1430 or 1440 MUS 2111 Theory III* MUS 2121 Aural Training III* MUS 2181 Jazz Improvisation I MUS 2181 Jazz Improvisation II* Major Large Jazz Ensemble Major Instrument, 1000 Level (Piano Class IV)** Semester Total	Hrs 0 3 .5 3 1 3 2 1 2 (1) 15.5
Junior Year - Fall Semester MUS 1000 Recital Attendance MUS 2112 Theory IV* MUS 2122 Aural Training IV* MUS 3211 Music History to 1750* MUS 4181 Advanced Jazz Improvisation* or MUS 4186 Advanced Jazz-Commercial Arranging*** Major Large Jazz Ensemble Major Instrument, 3000 Level General Education Semester Total	Hrs 0 3 1 3 2 1 3 3 16	Junior Year - Spring Semester MUS 1000 Recital Attendance MUS 1085 Jazz-Rock Combo MUS 3060 Junior Recital MUS 3212 Music History 1750-Present (GE)* MUS 4185 Jazz-Commercial Arranging (only offered Spring semesters of odd numbered years) Major Large Jazz Ensemble Major Instrument, 3000 Level General Education Semester Total	Hrs 0 1 3 1 3 3 1 3 3 1 5
Senior Year - Fall Semester MUS 1000 Recital Attendance MUS 4125 Form & Analysis (only offered Fall semesters of odd numbered years) MUS 4181 Advanced Jazz Improvisation* or MUS 4186 Advanced Jazz-Commercial Arranging*** MUS electives Major Instrument, 3000 Level General Education Semester Total	Hrs 0 3 2 2 3 3 13	 Senior Year - Spring Semester MUS 1000 Recital Attendance MUS 4060 Senior Recital¹⁰ MUS 4181 Advanced Jazz Improvisation (fall only) or MUS 4186 Advanced Jazz-Commercial Arranging*** Major Instrument, 3000 Level General Education (6 hours of General Education are needed here if the other 3 hours were taken in the first semester instead of MUS 1100) Free Choice Elective Semester Total 	Hrs 0 2 2 3 3-6 0-1 11-13

Music Major (Area 2 Jazz-Commercial Music - even year start), B.M. Degree - 120

- +MUS 1100 with a grade of C or better may be required as a prerequisite to MUS 1111 if the student does not pass this course by the admission examination.
- *This course is only offered during the semester listed.
- **Keyboard competency is required for this degree program. Private piano lessons may be required to reach competency.
- ***This course is only offered as needed by the department. See department for projected course offerings.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

Music Major (Area 3 Music Technology), B.M. Degree (44-03472)

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Freshman Year - Fall Semester ENGL 1020 Composition I (GE) MUS 1000 Recital Attendance (MUS 1100 Fundamentals of Music)+* MUS 1400 Computer Music Notation MUS 1450 Audio & Acoustics (GE) Approved Elective in Music++ Electronics or Computer Programming Elective (Choose from CS 1100, ET 1010, or ET 1020) Major Instrument or Voice, 1000 Level Major Large Instrumental or Vocal Ensemble (Piano Class I)***++ Semester Total	Hrs 3 0 (3) .5 3 1 3-4 1 1 (1) 12.5- 17.5	Freshman Year - Spring Semester ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) MUS 1000 Recital Attendance MUS 1111 Theory I MUS 1121 Aural Training I* MUS 2410 Digital Audio Production* MUS 2420 Technology Practicum Major Instrument or Voice, 1000 Level Major Large Instrumental or Vocal Ensemble (Piano Class II)***++ General Education Semester Total	Hrs 3 0 3 1 3 0 1 1 (1) 3 15-16
Sophomore Year - Fall Semester ECON 1010 Principles of Macroeconomics (GE) MUS 1000 Recital Attendance MUS 1112 Theory II* MUS 1122 Aural Training II* MUS 2400 Sound Reinforcement & Music Production* MUS 2420 Technology Practicum Major Instrument or Voice, 1000 Level Major Large Instrumental or Vocal Ensemble [Piano Class III]***++ General Education Semester Total	Hrs 3 0 3 1 3 0 1 1 (1) 3 15-16	Sophomore Year - Spring Semester MUS 1000 Recital Attendance MUS 2111 Theory III* MUS 2121 Aural Training III* MUS 4400 Audio for X* MUS 4420 Advanced Music Technology Practicum Major Instrument or Voice, 1000 Level Major Large Instrumental or Vocal Ensemble (Piano Class IV)***++ General Education Semester Total	Hrs 0 3 1 3 0 1 1 (1) 5 14-15
Junior Year - Fall Semester MUS 1000 Recital Attendance MUS 1225 Music of the World's Cultures (GE) MUS 2112 Theory IV* MUS 2122 Aural Training IV* MUS 3211 Music History to 1750* MUS 4410 Electronic Music Production Techniques MUS 4420 Advanced Music Technology Practicum Semester Total	Hrs 0 3 1 3 3 0 13	Junior Year - Spring Semester COMM 3425 Audio for Digital Cinema MUS 1000 Recital Attendance MUS 3212 Music History 1750-Present (GE)* MUS 4115 Instrumentation* MUS 4190 Electronic Music Composition or MUS 4195 Max & MSP (each class offered every other year) Approved Elective in Music++ Semester Total	Hrs 3 0 3 3 2 14
Senior Year - Fall Semester MUS 1000 Recital Attendance MUS 4040 Music Business Practices MUS 4430 Seminar in Music Technology Music Academic Studies Elective# Approved Elective in Music++ (depends on number of piano class credits taken) General Education Semester Total	Hrs 0 3 2 3 0-4 6 14-18	 Senior Year - Spring Semester MUS 4190 Electronic Music Composition or MUS 4195 Max & MSP (each class offered every other year) MUS 4430 Seminar in Music Technology¹⁰ Music Academic Studies Elective# Approved Elective in Music++ General Education# (If MUS 1220 or 1281 are chosen in the major, only 3 hours are required here) Semester Total After Junior or Senior Year - Summer Semester MUS 4450 Internship in Music Technology 	Hrs 3 2 3 1 3-6 12-15 Hrs 6

Music Major (Area 3 Music Technology), B.M. Degree - 120

- +MUS 1100 with a grade of C or better may be required as a prerequisite to MUS 1111 if the student does not pass this course by the admission examination.
- ++Eight hours of Approved Electives in Music are required, these may include any MUS course excluding MUS 1100 and MUS 1210. For most students, this will include Piano Class I-IV.
- *This course is only offered during the semester listed.
- **Choose 1 hour of Introductory Music Technology Electives. Each course is worth .5 credit hours and they must be completed during the freshman year. Choose two
 courses from the following five: MUS 1400, 1410, 1420, 1430, and/or 1440. Students may also choose to do .5 hours in the fall semester and .5 hours in the spring
 semester, as three of the courses are fall semester only and two of the courses are spring semester only.
- ***Keyboard competency is required for this degree program. Private piano lessons may be required to reach competency. If the four hours of Piano Class are not taken, four hours of Approved Electives in Music will be required to reach the total of 8 hours required.
- #This major area requires six hours of Music Academic Studies Electives. Choose from MUS 1220, 1281, 3141, 4000, 4101, 4125, or 4185. If chosen, MUS 1220 or 1281 will count for 3 hours of credit in the section "Additional Hours for Knowledge Area I" section of general education.
- 10This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA after they earn 45 credit hours but before earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

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Music Major (Area 4 Piano - odd year start), B.M. Degree (44-04472)

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Freshman Year - Fall Semester ENGL 1020 Composition I (GE) MUS 1000 Recital Attendance MUS 1100 Fundamentals of Music+* or General Education MUS 1510 Piano I MUS 2221 Introduction to Music Literature I* Major Large Instrumental or Vocal Ensemble General Education Semester Total	Hrs 3 0 3 2 1 5 16	Freshman Year - Spring Semeste ENGL 1030 Composition II or CTE MUS 1000 Recital Attendance MUS 1111 Theory I* MUS 1121 Aural Training I* MUS 1225 Music of the World's Cu MUS 1510 Piano I MUS 2222 Introduction to Music Lite Major Large Instrumental or Vocal En Semester Total
Sophomore Year - Fall Semester MUS 1000 Recital Attendance MUS 1112 Theory II* MUS 1122 Aural Training II* MUS 1510 Piano I MUS 2300 Fundamentals of Conducting* MUS 2515 Piano Accompanying (only offered Fall semesters of even numbered years) Major Large Instrumental or Vocal Ensemble MUS Electives** General Education Semester Total	Hrs 0 3 1 2 3 2 1 1 3 16	Sophomore Year - Spring Semes MUS 1000 Recital Attendance MUS 1095 Keyboard Ensemble MUS 1510 Piano I MUS 2111 Theory III* MUS 2121 Aural Training III* Major Large Instrumental or Vocal Er General Education Semester Total
Junior Year - Fall Semester MUS 1000 Recital Attendance MUS 2112 Theory IV* MUS 2122 Aural Training IV* MUS 3211 Music History to 1750* MUS 3510 Piano II MUS 4125 Form & Analysis (only offered Fall semesters of odd numbered years) MUS 4511 Piano Pedagogy I - Beginner (only offered Fall semesters of odd numbered years) Semester Total	Hrs 0 3 1 3 3 3 3 3 3 16	Junior Year - Spring Semester MUS 1000 Recital Attendance MUS 3060 Junior Recital MUS 3095 Piano Accompanying Pi MUS 3212 Music History 1750-Pre MUS 3510 Piano II Major Large Instrumental or Vocal Er General Education Semester Total
Senior Year - Fall Semester MUS 1000 Recital Attendance MUS 3510 Piano II MUS 4201 Piano Literature through Beethoven (only offered Fall semesters of even numbered years) MUS Electives** Major Large Instrumental or Vocal Ensemble General Education Free Choice Elective Semester Total	Hrs 0 3 2 3 1 6 1 16	Senior Year - Spring Semester MUS 1000 Recital Attendance MUS 3510 Piano II MUS 4060 Senior Recital ¹⁰ MUS 4101 Counterpoint I or MUS MUS 4202 Piano Literature Romanti offered Spring semesters of odd General Education (only 3 hours of 0 needed here if the other 3 hours semester instead of MUS 1100) Free Choice Electives (0 hours needed

Freshman Year - Spring Semester	Hrs
ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE)	3
MUS 1000 Recital Attendance	0
MUS 1111 Theory I*	3
MUS 1121 Aural Training I*	1
MUS 1225 Music of the World's Cultures (GE)	3
MUS 1510 Piano I	2
MUS 2222 Introduction to Music Literature II*	2
Major Large Instrumental or Vocal Ensemble	1
Semester Total	15
Sophomore Year - Spring Semester	Hrs
MUS 1000 Recital Attendance	0
MUS 1095 Keyboard Ensemble	ĩ
MUS 1510 Piano I	2
MUS 2111 Theory III*	3
MUS 2121 Aural Training III*	1

Junior Year - Spring Semester	Hrs
MUS 1000 Recital Attendance	0
MUS 3060 Junior Recital	1
MUS 3095 Piano Accompanying Practicum	1
MUS 3212 Music History 1750-Present (GE)*	3
MUS 3510 Piano II	3
Major Large Instrumental or Vocal Ensemble	1
General Education	6
Semester Total	15

or Vocal Ensemble

	Hrs	Senior Year - Spring Semester	Hrs
	0	MUS 1000 Recital Attendance	0
	3	MUS 3510 Piano II	3
offered		MUS 4060 Senior Recital ¹⁰	2
	2	MUS 4101 Counterpoint I or MUS 4115 Instrumentation	3
	3	MUS 4202 Piano Literature Romantic Era-Present (only	
	1	offered Spring semesters of odd numbered years)	2
	6	General Education (only 3 hours of General Education are	
	1	needed here if the other 3 hours were taken in the first	
	16	semester instead of MUS 1100)	0-3
		Free Choice Electives (0 hours needed if MUS 1100 was	
		taken)	0-3
		Semester Total	13

Music Major (Area 4 Piano - odd year start), B.M. Degree - 122

- +MUS 1100 with a grade of C or better may be required as a prerequisite to MUS 1111 if the student does not pass this course by the admission examination. Students who don't take MUS 1100 will need an additional 3 hours of free choice elective to reach 120 hours for graduation.
- *This course is only offered during the semester listed.
- **For the four required hours of MUS Electives in the Area seek advice from your departmental advisor.
- 10This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA after they earn 45 credit hours but before earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

Music Major (Area 4 Piano - even year start), B.M. Degree (44-04472)

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Freshman Year - Fall Semester ENGL 1020 Composition I (GE) MUS 1000 Recital Attendance MUS 1100 Fundamentals of Music+* or General Education MUS 1510 Piano I MUS 2221 Introduction to Music Literature I* Major Large Instrumental or Vocal Ensemble General Education Semester Total	Hrs 3 0 3 2 2 1 5 16	Freshman Year - Spring Semester ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) MUS 1000 Recital Attendance MUS 1111 Theory I* MUS 1121 Aural Training I* MUS 1225 Music of the World's Cultures (GE) MUS 1510 Piano I MUS 2222 Introduction to Music Literature II* Major Large Instrumental or Vocal Ensemble Semester Total	Hrs 3 0 3 1 3 2 2 1 15
Sophomore Year - Fall Semester MUS 1000 Recital Attendance MUS 1112 Theory II* MUS 1122 Aural Training II* MUS 1510 Piano I MUS 2300 Fundamentals of Conducting* Major Large Instrumental or Vocal Ensemble MUS Electives** General Education Semester Total	Hrs 0 3 1 2 3 1 1 6 17	Sophomore Year - Spring Semester MUS 1000 Recital Attendance MUS 1095 Keyboard Ensemble MUS 1510 Piano I MUS 2111 Theory III* MUS 2121 Aural Training III* Major Large Instrumental or Vocal Ensemble General Education Semester Total	Hrs 0 1 2 3 1 1 7 15
Junior Year - Fall Semester MUS 1000 Recital Attendance MUS 2112 Theory IV* MUS 2122 Aural Training IV* MUS 2515 Piano Accompanying (only offered Fall semesters of even numbered years) MUS 3211 Music History to 1750* MUS 3510 Piano II MUS 4201 Piano Literature through Beethoven (only offered Fall semesters of even numbered years) General Education Semester Total	Hrs 0 3 1 2 3 3 2 3 17	Junior Year - Spring Semester MUS 1000 Recital Attendance MUS 3060 Junior Recital MUS 3095 Piano Accompanying Practicum MUS 3212 Music History 1750-Present (GE)* MUS 3510 Piano II MUS 4202 Piano Literature Romantic Era-Present (only offered Spring semesters of odd numbered years) Major Large Instrumental or Vocal Ensemble General Education Semester Total	Hrs 0 1 3 3 2 1 3 14
 Senior Year - Fall Semester MUS 1000 Recital Attendance MUS 3510 Piano II MUS 4125 Form & Analysis (only offered Fall semesters of odd numbered years) MUS 4511 Piano Pedagogy I - Beginner (only offered Fall semesters of odd numbered years) MUS Electives** Major Large Instrumental or Vocal Ensemble General Education Semester Total 	Hrs 0 3 3 3 1 3 1 3 16	 Senior Year - Spring Semester MUS 1000 Recital Attendance MUS 3510 Piano II MUS 4060 Senior Recital¹⁰ MUS 4101 Counterpoint I or MUS 4115 Instrumentation General Education (O hours of General Education are needed here if 3 hours were taken in the first semester instead of MUS 1100) Free Choice Electives (only 1 hr needed if MUS 1100 was taken) Semester Total 	Hrs 0 3 2 3 0-3 1-4 12

Music Major (Area 4 Piano - even year start), B.M. Degree - 122

- +MUS 1100 with a grade of C or better may be required as a prerequisite to MUS 1111 if the student does not pass this course by the admission examination. Students who don't take MUS 1100 will need an additional 3 hours of free choice elective to reach 120 hours for graduation.
- *This course is only offered during the semester listed.
- **For the four required hours of MUS Electives in the Area seek advice from your departmental advisor..
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

Hrs

Hrs

Music Major (Area 5 Piano Pedagogy - odd year start), B.M. Degree (44-05472)

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Freshman Year - Fall Semester ENGL 1020 Composition I (GE) MUS 1000 Recital Attendance MUS 1100 Fundamentals of Music+* or General Education MUS 1510 Piano I PSY 1100 General Psychology (GE) Major Large Instrument or Vocal Ensemble General Education Semester Total	Hrs 3 0 3 2 3 1 3 15	Freshman Year - Spring Semester ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) MUS 1000 Recital Attendance MUS 1111 Theory I* MUS 1121 Aural Training I* MUS 1225 Music of the World's Cultures (GE) MUS 1510 Piano I MUS 2222 Introduction to Music Literature II* Major Large Instrument or Vocal Ensemble Semester Total
Sophomore Year - Fall Semester MUS 1000 Recital Attendance MUS 1112 Theory II* MUS 1122 Aural Training II* MUS 1510 Piano I MUS 4201 Piano Literature through Beethoven (only offered Fall semesters of even numbered years) Major Large Instrument or Vocal Ensemble General Education Semester Total	Hrs 0 3 1 2 2 1 6 15	Sophomore Year - Spring Semester MUS 1000 Recital Attendance MUS 1510 Piano I MUS 2111 Theory III* MUS 2121 Aural Training III* MUS 4202 Piano Literature Romantic Era - Present* Major Large Instrument or Vocal Ensemble General Education Semester Total
Junior Year - Fall Semester MUS 1000 Recital Attendance MUS 2112 Theory IV* MUS 2122 Aural Training IV* MUS 2515 Piano Accompanying MUS 3510 Piano II MUS 4125 Form & Analysis (only offered Fall semesters of odd numbered years) MUS 4511 Piano Pedagogy I - The Beginner (only offered Fall semesters of odd numbered years) General Education Semester Total	Hrs 0 3 1 2 1.5 3 3 16.5	Junior Year - Spring Semester MUS 1000 Recital Attendance MUS 1095 Keyboard Ensemble or MUS 3095 Piano Accompanying Practicum MUS 3212 Music History 1750-Present (GE)* MUS 3510 Piano II MUS 4512 Piano Pedagogy II - The Intermediate Student (only offered Spring semesters of even numbered years) MUS 4515 Practice Teaching in Piano* General Education Semester Total
 Senior Year - Fall Semester MUS 1000 Recital Attendance MUS 2300 Fundamentals of Conducting* MUS 3211 Music History to 1750* MUS 3510 Piano II MUS 4101 Counterpoint I (only offered Fall semesters of even numbered years) MUS 4513 Piano Pedagogy III - The Advanced Student (only offered Fall semesters of even numbered years) General Education (0 hours of General Education are needed here if 3 hours were taken in the first semester instead of MUS 1100) Semester Total 	Hrs 0 3 3 3 3 3 3 0-3 15-18	 Senior Year - Spring Semester MUS 1000 Recital Attendance MUS 1095 Keyboard Ensemble or MUS 3095 Piano Accompanying Practicum MUS 3510 Piano II MUS 4060 Senior Recital¹⁰ MUS 4504 Piano Pedagogy IV - Seminar* MUS 4515 Practice Teaching in Piano* General Education Semester Total

Music Major (Area 5 Piano Pedagogy - odd year start), B.M. Degree - 122.5

- +MUS 1100 with a grade of C or better may be required as a prerequisite to MUS 1111 if the student does not pass this course by the admission examination.
- *This course is only offered during the semester listed.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- This guide is based on entrance during odd numbered years (2013, 2015, etc.). The suggested order of courses will vary for students beginning in even numbered years.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

Music Major (Area 5 Piano Pedagogy - even year start), B.M. Degree (44-05472)

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester ENGL 1020 Composition I (GE) MUS 1000 Recital Attendance MUS 1100 Fundamentals of Music+* or General Education MUS 1510 Piano I PSY 1100 General Psychology (GE) Major Large Instrument or Vocal Ensemble General Education Semester Total	Hrs 3 0 3 2 3 1 3 15
Sophomore Year - Fall Semester MUS 1000 Recital Attendance MUS 1112 Theory II* MUS 1122 Aural Training II* MUS 1510 Piano I MUS 4511 Piano Pedagogy I - The Beginner (only offered Fall semesters of odd numbered years) Major Large Instrument or Vocal Ensemble General Education Semester Total	Hrs 0 3 1 2 3 1 6 16
Junior Year - Fall SemesterMUS 1000 Recital AttendanceMUS 2112 Theory IV*MUS 2122 Aural Training IV*MUS 2515 Piano AccompanyingMUS 3510 Piano IIMUS 4101 Counterpoint I (only offered Fall semesters of even numbered years)MUS 4201 Piano Literature through Beethoven (only offered Fall semesters of even numbered years)MUS 4513 Piano Pedagogy III - The Advanced Student (only offered Fall semesters of even numbered years)Semester Total	Hrs 0 3 1 2 1.5 3 2 3 15.5
 Senior Year - Fall Semester MUS 1000 Recital Attendance MUS 1095 Keyboard Ensemble or MUS 3095 Piano Accompanying Practicum MUS 2300 Fundamentals of Conducting* MUS 3211 Music History to 1750* MUS 3510 Piano II MUS 4125 Form & Analysis (only offered Fall semesters of odd numbered years) General Education (O hours of General Ed. are needed here i 3 hours were taken in the first semester instead of MUS 1100, Semester Total 	

Freshman Year - Spring Semester ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) MUS 1000 Recital Attendance MUS 1111 Theory I* MUS 1121 Aural Training I* MUS 1225 Music of the World's Cultures (GE) MUS 1510 Piano I MUS 2222 Introduction to Music Literature II* Major Large Instrument or Vocal Ensemble Semester Total	Hrs 3 0 3 1 3 2 2 1 15
Sophomore Year - Spring Semester MUS 1000 Recital Attendance MUS 1510 Piano I MUS 2111 Theory III* MUS 2121 Aural Training III* MUS 4512 Piano Pedagogy II - The Intermediate Student (only offered Spring semesters of even numbered years) Major Large Instrument or Vocal Ensemble General Education Semester Total	Hrs 0 2 3 1 3 1 6 16
Junior Year - Spring Semester MUS 1000 Recital Attendance MUS 1095 Keyboard Ensemble or MUS 3095 Piano Accompanying Practicum MUS 3510 Piano II MUS 4202 Piano Literature Romantic Era - Present* MUS 4514 Piano Pedagogy IV - Seminar* MUS 4515 Practice Teaching in Piano* General Education Semester Total	Hrs 0 1 3 2 3 3 6 18
Senior Year - Spring Semester MUS 1000 Recital Attendance MUS 3212 Music History 1750-Present (GE)* MUS 3510 Piano II MUS 4060 Senior Recital ¹⁰ MUS 4515 Practice Teaching in Piano* General Education	Hrs 0 3 2 3 3 3

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Music Major (Area 5 Piano Pedagogy - even year start), B.M. Degree - 122.5

• +MUS 1100 with a grade of C or better may be required as a prerequisite to MUS 1111 if the student does not pass this course by the admission examination.

Semester Total

- *This course is only offered during the semester listed.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- This guide is based on entrance during even numbered years (2014, 2016, etc.). The suggested order of courses will vary for students beginning in odd numbered years.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

Music Major (Area 6 Vocal - odd year start), B.M. Degree (44-06472)

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester ENGL 1020 Composition I (GE) FREN 1201 Elementary French I or GER 1301 Elementary German I (GE)* MUS 1000 Recital Attendance MUS 1100 Fundamentals of Music+** or General Education MUS 1610 Voice I MUS 2221 Introduction to Music Literature I** Major Large Vocal Ensemble (Piano Class I)*** Semester Total	Hrs 3 0 3 2 2 1 (1) 14-15	Freshman Year - Spring Semester ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) FREN 1202 Elem. French II or GER 1302 Elem. German II* MUS 1000 Recital Attendance MUS 1111 Theory I** MUS 1121 Aural Training I** MUS 1610 Voice I MUS 2222 Introduction to Music Literature II** Major Large Vocal Ensemble (Piano Class II)*** Semester Total	Hrs 3 0 3 1 2 2 1 (1) 15-16
Sophomore Year - Fall Semester MUS 1000 Recital Attendance MUS 1112 Theory II** MUS 1122 Aural Training II** MUS 1610 Voice I MUS 2300 Fundamentals of Conducting** Major Large Vocal Ensemble (Piano Class III)*** General Education Semester Total	Hrs 0 3 1 2 3 1 (1) 6 16-17	Sophomore Year - Spring Semester MUS 1000 Recital Attendance MUS 1610 Voice I MUS 2111 Theory III** MUS 2121 Aural Training III** Major Large Vocal Ensemble (Piano Class IV)*** General Education Semester Total	Hrs 0 2 3 1 1 (1) 6 13-14
Junior Year - Fall Semester MUS 1000 Recital Attendance MUS 2112 Theory IV** MUS 2122 Aural Training IV** MUS 2631 Diction for Singers I MUS 3211 Music History to 1750** MUS 3610 Voice II MUS 4125 Form & Analysis (only offered Fall semesters of odd numbered years) MUS 4235 Vocal Literature (only offered Fall semesters of odd numbered years) Major Large Vocal Ensemble Semester Total	Hrs 0 3 1 3 3 3 3 1 1 8	 Junior Year - Spring Semester MUS 1000 Recital Attendance MUS 1225 Music of the World's Cultures (GE) MUS 1615 Opera Theatre** MUS 2632 Diction for Singers II (only offered Spring semesters of even numbered years) MUS 3060 Junior Recital MUS 3212 Music History 1800 - Present (GE)** MUS 3610 Voice II General Education Semester Total 	Hrs 0 2 2 1 3 3 3 17
Senior Year - Fall Semester MUS 1000 Recital Attendance MUS 3610 Voice II MUS Required Elective# Major Large Vocal Ensemble General Education Free Choice Electives (will not be needed if MUS 1100 is taken or if validated credit is earned for FREN 1201 or GER 1301 or if these classes are taken) Semester Total	Hrs 0 3 1 6 0-1 13-14	 Senior Year - Spring Semester MUS 1000 Recital Attendance MUS 3610 Voice II MUS 4060 Senior Recital¹⁰ MUS 4600 Vocal Pedagogy (only offered Spring semesters of odd numbered years) MUS Electives General Education (only 3 hours of General Education are needed here if the other 3 hours were taken in the first semester instead of MUS 1100) Semester Total 	Hrs 0 3 2 f 2 3 3-6 13-16

Music Major (Area 6 Vocal - odd year start), B.M. Degree - 120

- *Student's initial placement in foreign language coursework will be determined by examination. If a student begins in FREN 1202 or GER 1302 and earns a grade of C or higher, the student will earn 3 hours of validated credit for FREN 1201 or GER 1301.
- +MUS 1100 with a grade of C or better may be required as a prerequisite to MUS 1111 if the student does not pass this course by the admission examination.
- **This course is only offered during the semester listed.
- ***Keyboard competency is required for this degree program. Private piano lessons may be required to reach competency.
- #For the MUS Required Elective choose among the following two courses: MUS 4101 Counterpoint I (offered fall semester of even numbered years only) or MUS 4115 Instrumentation (offered spring semester).
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA after they earn 45 credit hours but before earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

Music Major (Area 6 Vocal - even year start), B.M. Degree (44-06472)

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academics/ catalogs) for a complete listing of academic po	licies, curri	culum, prerequisites, and course descriptions.	
Freshman Year - Fall Semester	Hrs	Freshman Year - Spring Semester	Hrs
ENGL 1020 Composition I (GE)	3	ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE)	3
FREN 1201 Elementary French I or		FREN 1202 Elem. French II or GER 1302 Elem. German II*	3
GER 1301 Elementary German I (GE)*	3	MUS 1000 Recital Attendance	Õ
MUS 1000 Recital Attendance	0	MUS 1111 Theory I**	3
			1
MUS 1100 Fundamentals of Music+** or General Education		MUS 1121 Aural Training I**	
MUS 1610 Voice I	2	MUS 1610 Voice I	2
MUS 2221 Introduction to Music Literature I**	2	MUS 2222 Introduction to Music Literature II**	2
Major Large Vocal Ensemble	1	Major Large Vocal Ensemble	1
(Piano Class I)***	(1)	(Piano Class II)***	(1)
Semester Total	14-15	Semester Total	15-16
	-		
Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
MUS 1000 Recital Attendance	0	MUS 1000 Recital Attendance	0
	-		-
MUS 1112 Theory II**	3	MUS 1610 Voice I	2
MUS 1122 Aural Training II**	1	MUS 2111 Theory III**	3
MUS 1610 Voice I	2	MUS 2121 Aural Training III**	1
MUS 2300 Fundamentals of Conducting**	3	MUS 2632 Diction for Singers II (only offered Spring	
MUS 2631 Diction for Singers I]	semesters of even numbered years)	2
Major Large Vocal Ensemble	1	Major Large Vocal Ensemble	1
(Piano Class III)***	(1)	(Piano Class IV)***	(1)
General Education	6	General Education	6
Semester Total	17-18	Semester Total	15-16
Junior Year - Fall Semester MUS 1000 Recital Attendance MUS 2112 Theory IV** MUS 2122 Aural Training IV** MUS 3211 Music History to 1750**	Hrs 0 3 1 3	Junior Year - Spring Semester MUS 1000 Recital Attendance MUS 1225 Music of the World's Cultures (GE) MUS 1615 Opera Theatre** MUS 3060 Junior Recital	Hrs 0 3 2 1
MUS 3610 Voice II	3	MUS 3212 Music History 1800 - Present (GE)**	3
Major Large Vocal Ensemble	1	MUS 3610 Voice II	3
General Education	3	MUS 4600 Vocal Pedagogy (only offered Spring semesters of	
Semester Total	14	odd numbered years)	2
		Free Choice Electives (will not be needed if MUS 1100 is	-
		taken or if validated credit is earned for FREN 1201 or	
		GER 1301 or if these classes are taken)	0-1
		Semester Total	14-15
		Semester toral	14-15
Senior Year - Eall Semester	Hrs	Senior Year - Spring Semester	Hrc
Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
MUS 1000 Recital Attendance	0	MUS 1000 Recital Attendance	0
MUS 1000 Recital Attendance MUS 3610 Voice II		MUS 1000 Recital Attendance MUS 3610 Voice II	0 3
MUS 1000 Recital Attendance MUS 3610 Voice II MUS 4125 Form & Analysis (only offered Fall semesters of	0 3	MUS 1000 Recital Attendance MUS 3610 Voice II MUS 4060 Senior Recital ¹⁰	0 3 2
MUS 1000 Recital Attendance MUS 3610 Voice II MUS 4125 Form & Analysis (only offered Fall semesters of odd numbered years)	0 3 3	MUS 1000 Recital Attendance MUS 3610 Voice II MUS 4060 Senior Recital ¹⁰ MUS Electives	0 3
MUS 1000 Recital Attendance MUS 3610 Voice II MUS 4125 Form & Analysis (only offered Fall semesters of odd numbered years)	0 3 3	MUS 1000 Recital Attendance MUS 3610 Voice II MUS 4060 Senior Recital ¹⁰ MUS Electives	0 3 2
MUS 1000 Recital Attendance MUS 3610 Voice II MUS 4125 Form & Analysis (only offered Fall semesters of odd numbered years) MUS 4235 Vocal Literature (only offered Fall semesters of od	0 3 3	MUS 1000 Recital Attendance MUS 3610 Voice II MUS 4060 Senior Recital ¹⁰ MUS Electives General Education (only 6 hours of General Education are	0 3 2
MUS 1000 Recital Attendance MUS 3610 Voice II MUS 4125 Form & Analysis (only offered Fall semesters of odd numbered years) MUS 4235 Vocal Literature (only offered Fall semesters of od numbered years)	0 3 3 3	MUS 1000 Recital Attendance MUS 3610 Voice II MUS 4060 Senior Recital ¹⁰ MUS Electives General Education (only 6 hours of General Education are needed here if the other 3 hours were taken in the first	0 3 2 3
MUS 1000 Recital Attendance MUS 3610 Voice II MUS 4125 Form & Analysis (only offered Fall semesters of odd numbered years) MUS 4235 Vocal Literature (only offered Fall semesters of od numbered years) MUS Required Elective#	0 3 3 3 3 3	MUS 1000 Recital Attendance MUS 3610 Voice II MUS 4060 Senior Recital ¹⁰ MUS Electives General Education (only 6 hours of General Education are needed here if the other 3 hours were taken in the first semester instead of MUS 1100)	0 3 2 3 6-9
 MUS 1000 Recital Attendance MUS 3610 Voice II MUS 4125 Form & Analysis (only offered Fall semesters of odd numbered years) MUS 4235 Vocal Literature (only offered Fall semesters of odd numbered years) MUS Required Elective# Major Large Vocal Ensemble 	0 3 3 3 3 3 1	MUS 1000 Recital Attendance MUS 3610 Voice II MUS 4060 Senior Recital ¹⁰ MUS Electives General Education (only 6 hours of General Education are needed here if the other 3 hours were taken in the first	0 3 2 3
 MUS 1000 Recital Attendance MUS 3610 Voice II MUS 4125 Form & Analysis (only offered Fall semesters of odd numbered years) MUS 4235 Vocal Literature (only offered Fall semesters of odd numbered years) MUS Required Elective# Major Large Vocal Ensemble General Education 	0 3 3 3 3 1 3 3	MUS 1000 Recital Attendance MUS 3610 Voice II MUS 4060 Senior Recital ¹⁰ MUS Electives General Education (only 6 hours of General Education are needed here if the other 3 hours were taken in the first semester instead of MUS 1100)	0 3 2 3 6-9
 MUS 1000 Recital Attendance MUS 3610 Voice II MUS 4125 Form & Analysis (only offered Fall semesters of odd numbered years) MUS 4235 Vocal Literature (only offered Fall semesters of odd numbered years) MUS Required Elective# Major Large Vocal Ensemble 	0 3 3 3 3 3 1	MUS 1000 Recital Attendance MUS 3610 Voice II MUS 4060 Senior Recital ¹⁰ MUS Electives General Education (only 6 hours of General Education are needed here if the other 3 hours were taken in the first semester instead of MUS 1100)	0 3 2 3 6-9

Music Major (Area 6 Vocal - even year start), B.M. Degree - 120

- *Student's initial placement in foreign language coursework will be determined by examination. If a student begins in FREN 1202 or GER 1302 and earns a grade of C or higher, the student will earn 3 hours of validated credit for FREN 1201 or GER 1301.
- +MUS 1100 with a grade of C or better may be required as a prerequisite to MUS 1111 if the student does not pass this course by the admission examination.
- **This course is only offered during the semester listed.
- ***Keyboard competency is required for this degree program. Private piano lessons may be required to reach competency.
- #For the MUS Required Elective choose among the following two courses: MUS 4101 Counterpoint I (offered fall semester of even numbered years only) or MUS 4115 Instrumentation (offered spring semester).
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

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

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Freshman Year - Fall Semester ENGL 1020 Composition I (GE) HIST 1350 or HIST 1351 History of the United States (GE) MUS 1000 Recital Attendance MUS 1100 Fundamentals of Music+* or General Education Major Instrument, 1000 Level Major Large Instrumental Ensemble (Piano) General Education MATH Semester Total	Hrs 3 0 3 1 1 (1) 3 14-15	Freshman Year - Spring Semester ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) MUS 1000 Recital Attendance MUS 1111 Theory I* MUS 1121 Aural Training I* MUS 1390 Introduction to Music Education* Instrument Techniques Class** Major Instrument, 1000 Level Major Large Instrumental Ensemble (Piano) General Education Science with Laboratory Semester Total	Hrs 3 0 3 1 2 1 1 1 (1) 4 16-17
Sophomore Year - Fall Semester EDFL 2100 Introduction to the Teaching Profession FLDX 2150 Introductory Field Experience MUS 1000 Recital Attendance MUS 1112 Theory II* MUS 1122 Aural Training II* MUS 1400 Computer Music Notation MUS 1450 Audio and Acoustics (GE) MUS 2300 Fundamentals of Conducting* Instrument Techniques Class** Major Instrument, 1000 Level Major Large Instrumental Ensemble (Piano) Semester Total	Hrs 3 1 0 3 1 .5 3 3 1 1 (1) 17.5- 18.5	Sophomore Year - Spring Semester EDFL 2240 Educational Psychology EDSP 2100 Education of the Exceptional Child MUS 1000 Recital Attendance MUS 2111 Theory III* MUS 2121 Aural Training III* POLS 1510 American Government (GE) Major Large Instrumental Ensemble Major Instrument, 1000 Level (Piano) General Education Communication Semester Total (Successfully complete MoGEA exam by end of this semester,	Hrs 3 0 3 1 3 1 (1) 3 18-19
Junior Year - Fall Semester EDFL 2250 Introduction to English Language Learners and Culturally Responsive Pedagogy MUS 1000 Recital Attendance MUS 1410, 1420, 1430, or 1440 (choose one) MUS 2112 Theory IV* MUS 2122 Aural Training IV* MUS 3211 Music History to 1750* MUS 3305 Methods of Teaching Elemen. School Music*** MUS 3308 Marching Band Techniques* Instrument Techniques Class** Major Instrument, 3000 Level Major Large Instrumental Ensemble General Education (not needed if taken in first semester instead of MUS 1100, if needed choose an online cours Semester Total	Hrs 2 0 .5 3 1 3 2 1 1 1.5 1 e)O-3 16-19	Junior Year - Spring Semester FLDX 3000 Field Experience in the Content Area# MUS 1000 Recital Attendance MUS 1225 Music of the World's Cultures (GE) MUS 3212 Music History 1750-Present (GE)* MUS 3306 Methods of Teaching Instrumental Music* MUS 3320 Instrumental Conducting & Rehearsal Techniques* MUS 4115 Instrumentation* Instrument Techniques Class** Instrument Techniques Class** Major Instrumental Ensemble Semester Total (#These courses must be taken concurrently.)	Hrs 1 0 3 3 3 1 1.5 1 20.5
Senior Year - Fall Semester EDFL 4210 Introduction to Content Area Literacy EDFL 4970 Secondary Teaching & Behavioral Management FLDX 4970 Field Experience II in the Content Area MUS 1000 Recital Attendance MUS 4381 Jazz Pedagogy* (fall only) PSY 4230 Psychology of Adolescence (GE) Instrument Techniques Class** Major Instrument, 3000 Level Major Large Instrumental Ensemble General Education Semester Total	Hrs 2 1 0 2 3 1 1.5 1 5 18.5	Senior Year - Spring Semester FLDX 4468 Student Teaching Secondary II FLDX 4495 Student Teaching Elementary I MUS 4310 Methods of Teaching Music ¹⁰ MUS 4350 Secondary Field Experience II Semester Total (All non-student teaching coursework and tests must be successfully completed before this semester for enrollment in student teaching.)	Hrs 4 5 1 2 12

Music Education Major (Instrumental Option - even start year), B.M.E. Degree – 132.5-139.5

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

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Freshman Year - Fall Semester ENGL 1020 Composition I (GE) HIST 1350 or HIST 1351 History of the United States (GE) MUS 1000 Recital Attendance MUS 1100 Fundamentals of Music+* or General Education Major Instrument, 1000 Level Major Large Instrumental Ensemble (Piano) General Education MATH Semester Total	Hrs 3 0 3 1 1 (1) 3 14-15	Freshman Year - Spring Semester ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) MUS 1000 Recital Attendance MUS 1111 Theory I* MUS 1121 Aural Training I* MUS 1390 Introduction to Music Education* Instrument Techniques Class** Major Instrument, 1000 Level Major Large Instrumental Ensemble (Piano) General Education Science with Laboratory Semester Total	Hrs 3 0 3 1 2 1 1 1 (1) 4 16-17
Sophomore Year - Fall Semester EDFL 2100 Introduction to the Teaching Profession FLDX 2150 Introductory Field Experience MUS 1000 Recital Attendance MUS 1112 Theory II* MUS 1122 Aural Training II* MUS 1400 Computer Music Notation MUS 1450 Audio and Acoustics (GE) MUS 2300 Fundamentals of Conducting* Instrument Techniques Class** Major Instrument, 1000 Level Major Large Instrumental Ensemble (Piano) Semester Total	Hrs 3 1 0 3 1 .5 3 1 1 1 (1) 17.5- 18.5	Sophomore Year - Spring Semester EDFL 2240 Educational Psychology EDSP 2100 Education of the Exceptional Child MUS 1000 Recital Attendance MUS 2111 Theory III* MUS 2121 Aural Training III* POLS 1510 American Government (GE) Major Large Instrumental Ensemble Major Instrument, 1000 Level (Piano) General Education Communication Semester Total (Successfully complete MoGEA exam by end of this semester)	Hrs 3 0 3 1 3 1 1 (1) 3 18-19
Junior Year - Fall Semester EDFL 2250 Introduction to English Language Learners and Culturally Responsive Pedagogy MUS 1000 Recital Attendance MUS 1410, 1420, 1430, or 1440 (choose one) MUS 2112 Theory IV* MUS 2122 Aural Training IV* MUS 3211 Music History to 1750* MUS 3308 Marching Band Techniques* PSY 4230 Psychology of Adolescence (GE) Instrument Techniques Class** Major Instrument, 3000 Level Major Large Instrumental Ensemble General Education (not needed if taken in first semester instead of MUS 1100, if needed choose an online cours Semester Total	Hrs 2 0 .5 3 1 3 1 1.5 1 e)0-3 17-20	Junior Year - Spring Semester FLDX 3000 Field Experience in the Content Area# MUS 1000 Recital Attendance MUS 1225 Music of the World's Cultures (GE) MUS 3212 Music History 1750-Present (GE)* MUS 3306 Methods of Teaching Instrumental Music* MUS 3320 Instrumental Conducting & Rehearsal Tech.*# MUS 4115 Instrumentation* Instrument Techniques Class** Instrument Techniques Class** Major Instrument, 3000 Level Major Large Instrumental Ensemble Semester Total (#These courses must be taken concurrently.)	Hrs 1 0 3 3 3 1 1 1.5 1 20.5
Senier Total Senior Year - Fall Semester EDFL 4210 Introduction to Content Area Literacy EDFL 4970 Secondary Teaching & Behavioral Management FLDX 4970 Field Experience II in the Content Area MUS 1000 Recital Attendance MUS 3305 Methods of Teaching Elemen. School Music*** MUS 4381 Jazz Pedagogy* (fall only) Instrument Techniques Class** Major Instrument, 3000 Level Major Large Instrumental Ensemble General Education Semester Total	Hrs 2 2 1 0 2 2 1 1.5 1 5 17.5	Senior Year - Spring Semester FLDX 4468 Student Teaching Secondary II FLDX 4495 Student Teaching Elementary I MUS 4310 Methods of Teaching Music ¹⁰ MUS 4350 Secondary Field Experience II Semester Total (All non-student teaching coursework and tests must be successfully completed before this semester for enrollment in student teaching.)	Hrs 4 5 2 1 12

Music Education Major (Instrumental Option - odd start year), B.M.E. Degree – 132.5-139.5 hours

- **WUS 1100 with a grade of C or better may be required as a prerequisite to MUS 1111 if the student does not pass this course by the admission examination.
 *The six hours of Instrument Techniques Classes include the following (all courses are worth one credit hour): MUS 1701, 2801, 2802, 2901, 2902, and 2950.
 ***The six hours of Instrument Techniques Classes include the following (all courses are worth one credit hour): MUS 1701, 2801, 2802, 2901, 2902, and 2950.
 ***This is course is only in even-numbered years. Students who enter UCM in an odd-numbered year may take this course during the senior year, taking PSY 4230 in its place in the junior year.
 **This is course is fullills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
 **The discourse fullills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
 **The discourse fullills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
 **The discourse fullills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
 **The discourse fullide take and successfully complete the MoGEA before completion of their sophomore year (60 earned hours). See your caademic advisor to discuss the classes needed to prepare for the exam.
 **eacher Education candidates must take the appropriate Missouri Content Assessment (MoCA) for their certification area before they can student teach, and must pass it in order to be recommended for certification and registration is available on the MEGA website: http://www.mo.nesinc.com/.
 *ee www.ucmo.ed//cert for statement and information (including application) on admission to teacher education. Full admission is required before student teaching. The app

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

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Freshman Year - Fall Semester	Hrs	Freshman Year - Spring Semester	Hrs
ENGL 1020 Composition I (GE)	3	ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE)	3
MUS 1000 Recital Attendance	0	HIST 1350 or 1351 History of the United States (GE)	3
MUS 1100 Fundamentals of Music+* or General Education	3	MUS 1000 Recital Attendance	0
MUS 1610 Voice 1	1	MUS 1111 Theory I*	3
POLS 1510 American Government (GE)	3	MUS 1121 Aural Training I*	1
Major Large Vocal Ensemble	1	MUS 1390 Introduction to Music Education*	2
(Piano)	(1)	MUS 1610 Voice 1	1
General Education Science w/lab	4	Major Large Vocal Ensemble	1
Semester Total	15-16	(Piano)	(1)
		General Education MATH	3
		Semester Total	17-18

Sophomore Year - Fall Semester	Hrs
EDFL 2100 Introduction to the Teaching Profession	3
FLDX 2150 Introductory Field Experience	1
MUS 1000 Recital Attendance	0
MUS 1112 Theory II*	3
MUS 1122 Aural Training II*	1
MUS 1400 Computer Music Notation	.5
MUS 1450 Audio and Acoustics (GE)	3
MUS 1610 Voice 1	1
MUS 2300 Fundamentals of Conducting*	3
MUS 2631 Diction for Singer I	1
Major Large Vocal Ensemble	1
(Piano)	(1)
Semester Total	17.5-
	18.5

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 Junior Year - Fall Semester EDFL 2250 Introduction to English Language Learners and Culturally Responsive Pedagogy FLDX 3000 Field Experience in the Content Area (see department before enrollment) MUS 1000 Recital Attendance MUS 2112 Theory IV* MUS 2122 Aural Training IV* MUS 3211 Music History to 1750* MUS 3610 Voice II MUS 4320 Methods of Teaching Middle School Music*# (offered fall semester of odd numbered years only) Major Large Vocal Ensemble General Education (Managing Information) 	Hrs 2 1 0 3 1 3 3 1.5 2 1 2 1 2
Semester Total Senior Year - Fall Semester EDFL 4210 Introduction to Content Area Literacy EDFL 4970 Sec. Teaching & Behavioral Management FLDX 4970 Field Experience II in the Content Area MUS 1000 Recital Attendance MUS 3305 Methods of Teaching Elementary School Music (offered fall semester of even numbered years only) MUS 3315 Choral Techniques* MUS 3610 Voice II	19.5 Hrs 2 2 1 0 2 3 1.5

Sophomore Year - Spring Semester EDFL 2240 Educational Psychology EDSP 2100 Education of the Exceptional Child MUS 1000 Recital Attendance MUS 1410, 1420, 1430, or 1440 (choose one) MUS 1610 Voice 1 MUS 1615 Opera Theatre (spring only) or MUS 1620 Music Theatre Practicum 1* (fall only) MUS 2111 Theory III* MUS 2121 Aural Training III* Major Large Vocal Ensemble (Piano) General Education (Communication) Semester Total (Successfully complete MoGEA exam by end of this semester)	Hrs 3 0 .5 1 1 1 (1) 3 16.5- 17.5
Junior Year - Spring Semester	Hrs

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MUS 1000 Recital Attendance	0
MUS 1225 Music of the World's Cultures (GE)	3
MUS 3212 Music History 1750-Present (GE)*	3
MUS 3610 Voice II	1.5
MUS 4230 Choral Literature*	3
PSY 4230 Psychology of Adolescence (GE)	3
Major Large Vocal Ensemble	1
General Education	3
Semester Total	17.5

Senior Year - Spring Semester	Hrs
FLDX 4468 Student Teaching Secondary II	4
FLDX 4495 Student Teaching Elementary I	5
MUS 4310 Methods of Teaching Music ¹⁰	2
MUS 4350 Secondary Field Experience II	1
Semester Total	12
(All non-student teaching coursework and tests must be su	uccessfully
completed before this semester for enrollment in student to	eaching.)

Music Education Major (Vocal Option), B.M.E. Degree - 129.5-136.5 hours min.

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14.5-17.5

General Education (not needed if taken in 1st semester instead of MUS 1100, if needed choose online course)

MUS 4130 Choral Arranging* (offered fall semester of even

Semester Total

numbered years only)

Major Large Vocal Ensemble

 +MUS 1100 with a grade of C or better may be required as a prerequisite to MUS 1111 if the student does not pass this course by the admission examination.
 *This course is only offered during the semester listed.
 #Permission of instructor required for enrollment without prerequisite (MUS 3305 or 3306).
 "This course fulfills Competency 10 - Integration in the General Education program. The hours count in the major, not in general education.
 The Missouri General Education Assessment (MoGEA) is an exam required of all Teacher Education students. Students should take and successfully complete the MoGEA before completion of their sophomore year (60 earned hours). See your academic advisor to discuss the classes needed to program. Program. Students sho prepare for the exam.

prepare for the exam. Teacher Education candidates must take the appropriate Missouri Content Assessment (MoCA) for their certification area before they can student teach, and must pass it in order to be recommended for certification. Information and registration is available on the MEGA website: http://www.mo.nesinc.com/. See www.ucmo.edu/cert for statement and information (including application) on admission to teacher education. Full admission is required before student teaching. The application for student teaching is due approximately one year in advance.

Hrs

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16.5

Hrs

4

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2

12

1.5

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

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complete listing of academic policies, curriculum, prerequ	uisites, and a	course descriptions.	
Freshman Year - Fall Semester	Hrs	Freshman Year - Spring Semester	Hrs
ENGL 1020 Composition I (GE)	3	ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE)	3
MUS 1000 Recital Attendance	0	HIST 1350 or 1351 History of the United States (GE)	3
MUS 1100 Fundamentals of Music+* or General Education	3	MUS 1000 Recital Attendance	0
MUS 1610 Voice 1	1	MUS 1111 Theory I*	3
POLS 1510 American Government (GE)	3	MUS 1121 Aural Training I*	1
Major Large Vocal Ensemble	1	MUS 1390 Introduction to Music Education*	2
(Piano)	(1)	MUS 1610 Voice 1	1
General Education Science w/lab	4	Major Large Vocal Ensemble	1
Semester Total	15-16	(Piano)	(1)
		General Education MATH	3
		Semester Total	17-18
Sophomore Year - Fall Semester EDFL 2100 Introduction to the Teaching Profession FLDX 2150 Introductory Field Experience MUS 1000 Recital Attendance	Hrs 3 1 0	Sophomore Year - Spring Semester EDFL 2240 Educational Psychology EDSP 2100 Education of the Exceptional Child MUS 1000 Recital Attendance	Hrs 3 3 0
MUS 1112 Theory II*	3	MUS 1410, 1420, 1430, or 1440 (choose one)	.5
MUS 1122 Aural Training II*	F	MUS 1610 Voice 1	I
MUS 1400 Computer Music Notation	.5 3	MUS 1615 Opera Theatre (spring only) or	1
MUS 1450 Audio and Acoustics (GE)	3	MUS 1620 Music Theatre Practicum I* (fall only)	
MUS 1610 Voice 1		MUS 2111 Theory III*	3
MUS 2300 Fundamentals of Conducting*	3	MUS 2121 Aural Training III*	1
MUS 2631 Diction for Singer I	1	Major Large Vocal Ensemble	(1)
Major Large Vocal Ensemble	1		(1)
(Piano)	(1)	General Education (Communication)	3
Semester Total	17.5- 18.5	Semester Total (Successfully complete MoGEA exam by end of this semester)	16.5- 17.5

Junior Year - Fall Semester	Hrs
EDFL 2250 Introduction to English Language Learners and	
Culturally Responsive Pedagogy	2
FLDX 3000 Field Experience in the Content Area##	1
MUS 1000 Recital Attendance	0
MUS 2112 Theory IV*	3
MUS 2122 Aural Training IV*	1
MUS 3211 Music History to 1750*	3
MUS 3305 Methods of Teaching Elementary School Music	
(offered fall semester of even numbered years only)##	2
MUS 3310 Choral Conducting*	3
MUS 3610 Voice II	1.5
MUS 4130 Choral Arranging* (offered fall semester of even	
numbered years only)	2
Major Large Vocal Ensemble	1
Semester Total	19.5
(##These courses must be taken concurrently.)	

semester instead of MUS 1100)

Semester Total

needed here if the other 3 hours were taken in the first

Semester Total (##These courses must be taken concurrently.)	19.5	
Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester
EDFL 4210 Introduction to Content Area Literacy	2	FLDX 4468 Student Teaching Secondary II
EDFL 4970 Sec. Teaching & Behavioral Management	2	FLDX 4495 Student Teaching Elementary I
FLDX 4970 Field Experience II in the Content Area	1	MUS 4310 Methods of Teaching Music ¹⁰
MUS 1000 Recital Attendance	0	MUS 4350 Secondary Field Experience II
MUS 3315 Choral Techniques*	3	Semester Total
MUS 3610 Voice II	1.5	(All non-student teaching coursework and tests must be
MUS 4320 Methods of Teaching Middle School Music*#		successfully completed before this semester for enrollment in
(offered fall semester of odd numbered years only)	2	student teaching.)
Major Large Vocal Ensemble	1	
General Education (only 3 hours of General Education are		Music Education Major (Vocal Option),

Junior Year - Spring Semester

MUS 1000 Recital Attendance

MUS 4230 Choral Literature*

Major Large Vocal Ensemble

MUS 3610 Voice II

Semester Total

MUS 1225 Music of the World's Cultures (GE)

MUS 3212 Music History 1750-Present (GE)*

PSY 4230 Psychology of Adolescence (GE)

General Education (Managing Information)

Music Education Major (Vocal Option), B.M.E. Degree - 129.5-136.5 hours min.

18.5

3-6

15.5-

+MUS 1100 with a grade of C or better may be required as a prerequisite to MUS 1111 if the student does not pass this course by the admission examination.
*This course is only offered during the semester listed.
#Permission of instructor required for enrollment without prerequisite (MUS 3305 or 3306).
*UThis course fulfills Competency 10 - Integration in the General Education program. The hours count in the major, not in general education.
The Missouri General Education Assessment (MoGEA) is an exam required of all Teacher Education students. Students must pass all areas of the MoGEA for admission to the Teacher Education rogram. Students should take and successfully complete the MoGEA before completion of their sophomore year (60 earned hours). See your academic advisor to discuss the classes needed to prepare for the exam.
Teacher Education candidates must take the appropriate Missouri Content Assessment (MoCA) for their certification area before they can student teach, and must pass it in order to be recommended for certification in dor egistration is available on the MEGA website: http://www.mo.nesin.com/.
See www.ucmo.edu/cert for statement and information (including application) on admission to teacher education. Full admission is required before student teaching. The application for student teaching is due approximately one year in advance.

Musical Theatre Major, B.F.A. Degree (47-586)

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Freshman Year - Fall Semester DANC 1140 Jazz Dance I ENGL 1020 Composition I (GE) MUS 1055 (GE), 3070 (GE), 3077, or 4050 (GE)* MUS 1100 Fundamentals of Music MUS 1610 Voice I THEA 1400 Script Analysis THEA 1500 Acting Semester Total AE 1400 University Foundations**	Hrs 1 3 1 3 1 3 3 1 5 1	Freshman Year - Spring Semester DANC 1130 Tap Dance I ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) MUS 1055 (GE), 3070 (GE), 3077, or 4050 (GE)* MUS 1111 Theory I MUS 1121 Aural Training I MUS 1610 Voice I THEA 1100 Oral Interpretation (GE) THEA 1600 Stagecraft Semester Total	Hrs 1 3 1 3 1 1 3 3 16
Sophomore Year - Fall Semester DANC 1110, 1120, 3110, or 3120*** DANC 3140 Jazz Dance II MUS 1055 (GE), 3070 (GE), 3077, or 4050 (GE)* MUS 1610 Voice I THEA 1510 Stage Movement THEA 2610 Design Fundamentals General Education Semester Total	Hrs 1 1 1 1 3 3 6 16	Sophomore Year - Spring Semester DANC 3210 Musical Theatre Dance MUS 1610 Voice I THEA 1520 Stage Voice THEA 1610 Stage Makeup General Education Semester Total	Hrs 3 1 3 6 16
Junior Year - Fall Semester DANC 1110, 1120, 3110, or 3120*** DANC 4210 Choreography I MUS 1501 Piano Class I THEA 3700 Directing General Education Semester Total	Hrs 1 3 1 3 6 14	Junior Year - Spring Semester MUS 1502 Piano Class II MUS 1615 Opera Theatre THEA 4430 American Musical Theatre History THEA 4500 Advanced Acting General Education Semester Total	Hrs 1 3 3 6 14
 Senior Year - Fall Semester MUS 3610 Voice II THEA 4400 Literature & History of the Theatre I¹⁰ THEA 4510 Period Acting Styles General Education Free Choice Electives* (6 hours needed if overlap chosen in major) Semester Total 	Hrs 1.5 3 3 3-6 13.5- 16.5	 Senior Year - Spring Semester DANC 3130 Tap Dance II MUS 3610 Voice II THEA 4420 Literature & History of the Theatre II or THEA 4440 Literature & History of the Theatre III THEA 4910 Senior Showcase General Education* (only 3 hours needed if overlap chosen in major) Free Choice Electives (depends on choices made in major) Semester Total 	Hrs 1 1.5 3 1 3-6 3 12.5- 15.5

Musical Theatre Major, B.F.A. Degree - 120 hours

- *Select three hours from the following list: MUS 1055 Collegiate Choir, 3070 Chamber Singers, 3077 Vocal Jazz Ensemble, or 4050 University Concert Choir. All three hours may be from the same course or a combination of different courses. If three hours of 1055, 3070, and/or 4050 are chosen, these hours will also fulfill 3 hours of general education requirements. If this is opted, three additional hours of free choice electives will be needed to reach 120 hours.
- **AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- ***Select two different courses from the following list: DANC 1110 Modern Dance I, 1120 Ballet Dance I, 3110 Modern Dance II, and 3120 Ballet Dance II.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA after they earn 45 credit hours but before earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

Networking Technology Major (B.S. Degree (43-893)

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Freshman Year - Fall Semester CTE 1300 Introduction to Engineering Design ENGL 1020 Composition I (GE) MATH 1111 College Algebra (GE) NET 1000 Seminar in Networking Technology NET 1058 Computer Technologies NET 1060 Introduction to Networks Semester Total AE 1400 University Foundations*	Hrs 3 3 1 3 3 1 6 1	Freshman Year - Spring Semester CIS 1600 Business Information Management (GE) COMM 1000 Public Speaking (GE) CS 1030 Introduction to Computer Programming (CS) ET 1010 Applied Electricity NET 1061 Routing and Switching Essentials Semester Total	Hrs 3 3 4 3 16
Sophomore Year - Fall Semester CIS 1612 Ethics in Information Technology (GE) CS 1100 Computer Programming I NET 2060 Scaling Networks PHYS 1104 Introduction to the Sciences: Physics General Education Semester Total	Hrs 3 3 4 3 16	Sophomore Year - Spring Semester NET 2061 Connecting Networks General Education Semester Total	Hrs 3 12 15
Junior Year - Fall Semester ET 3017 Programmable Logic Controllers NET 1000 Seminar in Networking Technology NET 3062 Network Design NET 3068 Network Security I NET 4040 Fundamentals of Network Operating Systems Semester Total	Hrs 4 1 3 4 3 15	Junior Year - Spring Semester CIS 3650 Database Management CTE 3060 Technical Writing (GE) NET 3065 Converged Voice & Data Networks NET 4042 Network Servers and Services NET 4060 Advanced Network Routing Semester Total	Hrs 3 3 3 3 3 15
Junior Year - Summer Semester SOT 3022 Internship in Technology Semester Total	Hrs 3 3		
Senior Year - Fall Semester INDM 4250 Project Management NET 4043 Network Servers and Infrastructure NET 4062 Advanced Switching General Education Semester Total	Hrs 3 3 3 3 12	Senior Year - Spring Semester CTE 3116 Creative Thinking for a Better World (GE) NET 4063 Network Support ¹⁰ Free Choice Electives Semester Total	Hrs 3 6 12

Networking Technology Major, B.S. Degree - 120 hours

- *AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- 10This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

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

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Freshman Year - Fall Semester CHEM 1104 Introduction to the Sciences: Chemistry (GE)* ENGL 1020 Composition I (GE) NUR 1700 Introduction to Professional Nursing** SOC 1800 General Sociology (GE)* General Education Semester Total	Hrs 4 3 1 3 3 14	Freshman Year - Spring Semester BIOL 3401 Human Anatomy* ENGL 1030 Composition II (GE) or CTE 3060 Technical Writing (GE) PSY 1100 General Psychology (GE)* General Education Semester Total	Hrs 3 3 6 15
Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
BIOL 3402 Human Physiology*	5	BIOL 3610 Microbiology*	3
D&N 3340 Nutrition*	3	NUR 2700 Professional Nursing Seminar**	1
NUR 2200 Culture & Sustainability in Health (GE)	3	Nursing Elective***	2-3
General Education	5-6	General Education	9
Semester Total	16-17	Semester Total	15-16

-- ENTER NURSING PROGRAM --

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

-- TO KANSAS CITY LAST TWO SEMESTERS --

Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
NUR 4111 Socio-Economic Factors Impacting Health ¹⁰	3	NUR 4600 Con. of Nursing Leadership in Mgmt CH/MH	6
NUR 4410 Concepts of Maternal-Child Nursing	3	NUR 4601 Concepts of Nursing Leadership in Management	
NUR 4411 Concepts of Maternal-Child Nursing Practicu	im 2	& Community Health/Mental Health Practicum	6
NUR 4510 Concepts of Adult & Older Adult Nursing II	3	NUR 4602 Synthesis of Nursing Concepts	1
NUR 4511 Concepts of Adult & Older Adult Nrsg. II Pro	act. 3	Semester Total	13
NUR 4512 Adv. Tech. & Pharmacological Nursing Apps	s. 2		
Semester Total	16		

Nursing Major, B.S. Degree - 120-122 hours

- *Nursing Program Prerequisite Courses (must be taken prior to admission to the program). Preference for admission into the Nursing
 major will be given to students taking ALL prerequisites at UCM.
- **Lower Level Required Nursing Courses (must be taken prior to admission to the program).
- ***The nursing elective may be taken anytime after sophomore standing is achieved. One Nursing elective course is required from the following: NUR 2000 e-Health and Cyber Wellness; NUR 2020 Health: Women's Perspectives, NUR 4020 Grief and Loss; NUR 4030 Human Sexuality; NUR 4040 Nursing Informatics; NUR 4210 Wellness for U.S. Veteran and Military Families; NUR 4405 Aging of Self and Others; NUR 4810 Simulation Education & Facilitation; NUR 4820 Leadership & Management Concepts in Simulation; and NUR 4830 Simulation Education Capstone.
- #NUR 3200 may be taken prior to entry into the program or in the Nursing program.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

UNIVERSITY OF CENTRAL MISSOURI

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Hrs 3

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

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Freshman Year - Fall Semester CTE 2000 Technology & Society (GE)* ENGL 1020 Composition I (GE) Teaching Specialty Area General Education Semester Total	Hrs 3 3 3 6 15	Freshman Year - Spring Semester CTE 3060 Technical Writing (GE) Teaching Specialty Area General Education Semester Total	Hrs 3 6 15
Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
EDFL 2240 Educational Psychology (GE)**	3	EDSP 2100 Education of the Exceptional Child	3
Teaching Specialty Area	3	SOT 4570 Computer Graphics	3
General Education	7	Teaching Specialty Area	6
Semester Total	13	General Education	3

Semester Total

Junior Year - Spring Semester

Teaching Specialty Area Free Choice Elective

Semester Total

CTE 3116 Creative Thinking for a Better World (GE)*

Junior Year - Fall Semester	Hrs
CTE 4145 Curriculum Construction in Career & Technical	
Education***	3
Teaching Specialty Area	6
General Education	6
Semester Total	15

Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester
CTE 4110 Foundations of Career & Technology Education (fa	ıll	CTE 4022 Teaching/Administration Intern ¹⁰
only) or CTE 4140 New Teacher Institute (fall only)***	3	CTE 4150 Vocational Guidance or BTE 4241 Coordination
CTE 4160 Methods of Teaching Career & Technical Edu.***		of Cooperative Education Programs***
CTE 4180 Adult Education and Training (fall, even years only		CTE 4165 Performance Assess. in Career & Technical Edu.
or EDFL 4970 Secondary Teaching & Behavioral Mamt.		Teaching Specialty Area
Teaching Specialty Area	3	Semester Total
Free Choice Elective	5-6	
Semester Total	17	

Occupational Education Major, B.S. Degree - 120 hours

- *CTE 2000 and CTE 3116 must be completed at UCM.
- **EDFL 2240 must be taught by a state-approved two-year or four-year institution.
- ***CTE 4110, 4140, 4145, 4150, and 4160 must be taught by a state-approved four-year institution.
- 10This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- Students completing this program online should seek advice from the department and academic advisors for available online general education classes.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA after they earn 45 credit hours but before earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

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

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester ENGL 1020 Composition I (GE) MATH 1111 College Algebra (GE)* SAFE 1000 Exploring Safety Sciences* SAFE 3000 Principles of Accident Causation & Prevention* General Education Semester Total	Hrs 3 1 3 5-6 15-16	Freshman Year - Spring Semester CHEM 1104 Introduction to the Sciences: Chemistry (GE)* SAFE 2900 Applied Sciences for Professional Studies General Education Semester Total	Hrs 4 3 9 16
Sophomore Year - Fall Semester BIOL 2010 Human Biology CTE 3060 Technical Writing (GE)* PHYS 1103 Introduction to the Sciences: Physics (GE)* General Education Semester Total	Hrs 3 3 6 15	Sophomore Year - Spring Semester CHEM 1604 Elementary Organic & Biochemistry* SAFE 3430 Industrial Hazard Control* SAFE 4000 Ergonomics in Safety & Health General Education Semester Total	Hrs 4 3 3 1 3
Junior Year - Fall Semester SAFE 3120 Introduction to Industrial Hygiene* SAFE 4425 Safety & Health Legislation & Standards SAFE 4940 Statistical Analysis for Risk Management SAFE 4440, 4445, 4450 or BIOL 2510 General Education Semester Total	Hrs 3 3 3 3 3 3 15	Junior Year - Spring Semester SAFE 3070 Safety Leadership SAFE 4025 Workers' Compensation & Legal Aspects of Safet SAFE 4140 Safety & Health Lab* SAFE 4515 High Hazard Industries SAFE 4560 Systems Safety Semester Total	Hrs 3 y3 3 3 3 15
Summer – Between Junior & Senior Year SAFE 4990 Internship in Safety Sciences*# Semester Total	Hrs 2 2		
Senior Year - Fall Semester SAFE 4010 Accident Investigation SAFE 4035 Safety Program Management SAFE 4150 Noise Measurements SAFE 4215 Transportation and Storage of Hazard. Materials SAFE 4850 Industrial Fire Protection Semester Total	Hrs 3 2 3 3 3 14	Senior Year - Spring Semester SAFE 4055 Safety Capstone Experience ^{*10} SAFE 4160 Industrial Ventilation for Envir. Safety & Health SAFE 4435 Environmental Compliance Free Choice Elective Semester Total	Hrs 3 3 5-6 14-15

Occupational Safety and Health Major, B.S. Degree - 120 hours

- *A grade of C or higher is required in these courses for graduation in this major.
- #SAFE 4990 Internship in Safety Sciences (3 hrs) is taken the summer after the junior year.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- Students seeking to graduate from this program must have a minimum 2.20 cumulative grade-point average.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

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

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester ENGL 1020 Composition I (GE) PHIL 1000 Introduction to Philosophy (GE) Modern Language Requirement* General Education Semester Total AE 1400 University Foundations**	Hrs 3 3 6 15 1	Freshman Year - Spring Semester ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) PHIL 2300 Ethics (GE) Modern Language Requirement* General Education Semester Total	Hrs 3 3 6 15
Sophomore Year - Fall Semester PHIL 1400 Deductive Logic or PHIL 1410 Critical Thinking PHIL 3130 History of Philosophy II: Enlightenment Thought General Education Semester Total	Hrs 3 3 9 15	Sophomore Year - Spring Semester ENGL 2220 World Masterpieces (GE)* PHIL 3120 History of Philosophy I: Ancient Thought General Education Free Choice Electives Semester Total	Hrs 3 6 3 15
Junior Year - Fall Semester PHIL 3600 Special Topics in Philosophy PHIL Major Elective*** Free Choice Electives Semester Total	Hrs 3 9 15	Junior Year - Spring Semester PHIL 3660 Studies in Literature & Philosophy PHIL Major Elective*** Free Choice Electives Semester Total	Hrs 3 3 9 15
Senior Year - Fall Semester PHIL 4710 Philosophy of Religion Free Choice Electives Semester Total	Hrs 3 12 15	Senior Year - Spring Semester PHL 4250 Special Projects in Philosophy ¹⁰ Free Choice Electives Semester Total	Hrs 3 12 15

Philosophy Major, B.A. Degree - 120 hours

- *Refer to the Bachelor's Degree Requirements section of the catalog for the BA Modern Language requirements. This plan is based on 6 hours of modern language and 3 hours of ENGL 2220.
- **AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- ***Six hours of PHIL Major Electives are required. See the 2015 Undergraduate Catalog for list of appropriate choices.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- This major does not build in the minimum number (30) of upper-level credit hours required for graduation. Be sure to include upperlevel choices (3000/4000) in your major electives, general education, and/or free choice electives.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

Physical Education Major - Option 1 Elementary-Secondary Certification K-12, B.S. Degree (43-01817)

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester ENGL 1020 Composition I (GE) HIST 1350 or 1351 History of the United States (GE)# MATH 1111 College Algebra (GE)# PE 1100 Orientation and History of Physical Education# PE 2472 Communicating Ideas on Sport (GE)# General Education Managing Information Semester Total	Hrs 3 3 2 3 2 16	Freshman Year - Spring Semester ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) PE 1800 Functional Anatomy# PHIL 1410 Critical Thinking (GE)# POLS 1510 American Government (GE)# General Education Science w/lab Semester Total	Hrs 3 3 3 4 16
Sophomore Year - Fall Semester BIOL 2010 Human Biology (GE)# EDFL 2100 Introduction to the Teaching Profession# FLDX 2150 Introductory Field Experience# EDFL 2240 Educational Psychology (GE)# EDSP 2100 Education of the Exceptional Child# PE 2100 Foundations & Philosophy of Teaching Physical Ed.# Semester Total	Hrs 3 1 3 3 3 3 16	Sophomore Year - Spring Semester DANC 2100 Dance Appreciation (GE)# HED 1200 Applied Nutrition for Healthy Living (GE)# HED 1350 Responding to Emergencies (must do CPR option) PE 2455 Growth and Motor Development# PE 2850 Foundations of Exercise Physiology# General Education Semester Total (Successfully complete MoGEA exam by end of this semester,	3 3 3 18
 Junior Year - Fall Semester EDFL 2250 Introduction to English Language Learners and Culturally Responsive Pedagogy#+ EDFL 4210 Introduction to Content Area Literacy# FLDX 3000 Field Experience in the Content Area#+ PE 2800 Biomechanics# PE 4340 Adapted Physical Education# PE 4740 Legal Liability in F/W, PE, Rec. & Sport Settings# PE 4971 Methods of Teaching Reading & Writing in PE# PSY 4230 Psychology of Adolescence# Semester Total 	Hrs 2 2 1 3 2 1 3 1 3 17	Junior Year - Spring Semester AT 3610 Care & Prevention of Injuries# PE 3310 Analysis & Teaching of Physical Training# PE 3320 Analysis & Teaching of Elementary Skills# PE 3330 Analysis & Teaching of Secondary Skills# PE 3340 Analysis & Teaching of Lifetime Activities# PE 3350 Assessment of Elementary and Secondary Skills# Semester Total	Hrs 3 3 3 3 2 17
 Senior Year - Fall Semester PE 4450 Techniques of Teaching Physical Education Activities in the Elementary Schools#* PE 4460 Tech. of Teaching PE Act. in Middle Schools & HS# PE 4845 Psychological and Instructional Planning#* PE 4845 Psychological and Social Aspects of PE# PE 4970 Teaching and Mgmt. in PreK-12 Physical Educ.#* PE 4975 Practicum in PreK-12 Physical Education#* Semester Total 	3 *3 2 3 3	Senior Year - Spring Semester** FLDX 4468 Student Teaching Secondary II# ¹⁰ FLDX 4495 Student Teaching Elementary I# PE 4890 Methods of Teaching and Assessment in K-12 PE# Semester Total (All non-student teaching coursework and tests must be successfully completed before this semester for enrollment in student teaching.)	Hrs 4 5 3 12

Physical Education Major - Option 1 Elementary-Secondary Certification K-12, B.S. Degree 129 hours

- #Option 1 students must maintain a 3.00 GPA in all PE prefix courses, a 2.75 cumulative GPA, a 3.00 in all Professional Education classes, and no grade lower than a C in classes marked with a #.
- +These courses must be taken concurrently.
- *These courses are only offered during fall semester.
- **The courses listed for this semester constitute the professional education (student teaching) block. The student should not take any other courses during this semester.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- The Missouri General Education Assessment (MoGEA) is an exam required of all Teacher Education students. Students must pass all areas of the MoGEA for admission to the Teacher Education Program. Students should take and successfully complete the MoGEA before completion of their sophomore year (60 earned hours). See your academic advisor to discuss the classes needed to prepare for the exam.
- Teacher Education candidates must take the appropriate Missouri Content Assessment (MoCA) for their certification area before they can student teach, and must pass it in order to be recommended for certification. Information and registration is available on the MEGA website: http://www.mo.nesinc.com/.
- See www.ucmo.edu/cert for statement and information (including application) on admission to teacher education. Full admission
 is required before enrollment in professional education classes and student teaching. The application for student teaching is due
 approximately one year in advance.

Physical Education Major - Option 2 Fitness/Wellness I (Corporate Fitness), B.S. Degree (43-02817)

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester ENGL 1020 Composition I (GE) PE 1101 Introduction to Exercise Science* PE 1206 Fitness for a Global Community (GE)* PSY 1100 General Psychology (GE)* General Education Semester Total AE 1400 University Foundations**	Hrs 3 3 3 3 3 1 5 1	Freshman Year - Spring Semester MATH 1111 College Algebra (GE)* PE 1800 Functional Anatomy* General Education Semester Total	Hrs 3 3 8-9 14-15
Sophomore Year - Fall Semester CTE 3060 Technical Writing (GE)* HED 1350 Responding to Emergencies* PE 2472 Communicating Ideas on Sport (GE)* PE 2850 Foundations Exercise Physiology* General Education Science with Laboratory Semester Total	Hrs 3 3 3 4 16	Sophomore Year - Spring Semester ACCT 2101 Principles of Financial Accounting* AT 3610 Care & Prevention of Injuries* HED 4300 Nutrition & Human Performance* PE 2900 Essentials of Personal Training* General Education Semester Total	Hrs 3 3 3 3 3 3 15
Junior Year - Fall Semester BLAW 2720 Legal Environment of Business* MKT 3405 Marketing Policy* PE 2800 Biomechanics* PE 4340 Adapted Physical Education* PE 4850 Assessment & Evaluation of Fitness/Wellness* Semester Total	Hrs 3 3 3 3 3 15	Junior Year - Spring Semester MKT 3420 Principles Advertising* PE 4341 Physical Activity & Special Populations* PE 4740 Legal Liability in F/W, PE, Rec., & Sport Settings* PE 4870 Clinical Exercise Physiology* General Education Semester Total	Hrs 3 2 3 6 17
Senior Year - Fall Semester MKT 3430 Professional Sales* PE 4860 Fitness Programming & Implementation* Free Choice Electives Semester Total	Hrs 3 9-10 15-16	Senior Year - Spring Semester PE 4765 Internship*# ¹⁰ Free Choice Electives Semester Total	Hrs 6 6 12

Physical Education Major - Option 2 Fitness/Wellness I (Corporate Fitness), B.S. Degree - 120 hours

- *A grade of C or better is required in these courses.
- **AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- #The internship can also be taken the semester after all other coursework is completed.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- This major includes all 12 of the 18 credit hours required of the Marketing minor. Students interested in completing the Marketing minor would need to take MKT 3480 and 3 additional hours of minor electives from the list in the 2015 Undergraduate Catalog. Students must officially declare the minor on their Central Degree Audit to have the minor included in their degree program.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

Physical Education Major - Option 3 Fitness/Wellness II (Exercise Science), B.S. Degree (43-03817)

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester ENGL 1020 Composition I (GE)* MATH 1111 College Algebra (GE)* PE 1101 Introduction to Exercise Science* PE 1206 Fitness for a Global Community (GE)* PSY 1100 General Psychology (GE)* Semester Total AE 1400 University Foundations**	Hrs 3 3 3 3 3 3 15 1	Freshman Year - Spring Semester CHEM 1104 Intro. to the Sciences: Chemistry (w/lab) (GE)* PE 1800 Functional Anatomy* PE 2472 Communicating Ideas on Sport (GE)* General Education Managing Information General Education Semester Total	Hrs 4 3 2-3 3 15-16
Sophomore Year - Fall Semester BIOL 3401 Human Anatomy* CTE 3060 Technical Writing (GE)* HED 1350 Responding to Emergencies* PE 2900 Essentials of Personal Training* General Education Semester Total	Hrs 3 3 3 3 3 15	Sophomore Year - Spring Semester AT 3610 Care & Prevention of Injuries* BIOL 3402 Human Physiology* PE 2850 Foundations Exercise Physiology* General Education Semester Total	Hrs 3 5 3 6 17
Junior Year - Fall Semester D&N 3340 Nutrition* PE 2800 Biomechanics* PE 4340 Adapted Physical Education* PE 4850 Assessment & Evaluation Fitness/Wellness* General Education Semester Total	Hrs 3 3 3 3 3 15	Junior Year - Spring Semester CHEM 1604 Elementary Organic & Biochemistry* or PHYS 1104 Introduction to the Sciences: Physics (GE)* PE 4341 Physical Activity & Special Populations* PE 4740 Legal Liability in F/W, PE, Rec., & Sport Settings* PE 4870 Clinical Exercise Physiology* General Education (or Free Choice Elective if PHYS 1104 is chosen)##	Hrs 4 3 2 3 3 15
Senior Year - Fall Semester HED 4300 Nutrition & Human Performance* PE 4860 Fitness Program & Implementation* Free Choice Electives Semester Total	Hrs 3 3 9 15	Senior Year - Spring Semester PE 4765 Internship*# ¹⁰ PSY 4520 Statistics for the Behavioral Sciences* Free Choice Electives## Semester Total	Hrs 6 3 3-4 12-13

Physical Education Major - Option 3 Fitness/Wellness II (Exercise Science), B.S. Degree - 120 hours

- *A grade of C or better is required in these courses.
- **AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- #The internship can also be taken the semester after all other coursework is completed.
- ##The number of free choice electives required will vary and will depend on the choices made for the General Education Managing Information requirement and the physical science course chosen in the major. If PHYS 1104 is chosen in the major it will also count in the general education. This plan assumes PHYS 1104 is not selected and includes the minimum number of free choice electives.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

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

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester ENGL 1020 Composition I (GE) MATH 1151 Calculus & Analytic Geometry I (GE)* POLS 1510 American Government (GE) General Education Semester Total AE 1400 University Foundations**	Hrs 3 5 3 5 16 1	Freshman Year - Spring Semester CS 1100 Computer Programming I ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) MATH 1152 Calculus & Analytic Geometry II PHYS 1101 College Physics I or PHYS 2121 University Physics I Semester Total	Hrs 3 5 4-5 15-16
Sophomore Year - Fall Semester CHEM 1131 General Chemistry I (GE)*# EDFL 2100 Introduction to the Teaching Profession FLDX 2150 Introductory Field Experience HIST 1350 or 1351 History of the United States (GE) PHYS 1102 College Physics II or PHYS 2122 University Physics II Semester Total	Hrs 5 3 1 3 4-5 16-17	Sophomore Year - Spring Semester BIOL 1005 Introduction to Environmental Science (GE) CHEM 1132 General Chemistry II EDFL 2240 Educational Psychology (GE) EDSP 2100 Education of the Exceptional Child STCH 3020 Science and Engineering Practices Semester Total (Successfully complete MoGEA exam by end of this semester)	Hrs 3 5 3 3 3 17
Junior Year - Fall Semester BIOL 1110 Principles of Biology or BIOL 1111 Plant Biology EDFL 2250 Introduction to English Language Learners and Culturally Responsive Pedagogy EDFL 4210 Introduction to Content Area Literacy PHYS 4411 Thermodynamics or CHEM 4531 Physical Chemistry: Thermodynamics & Kinetics General Education Semester Total	Hrs 3-4 2 3-4 6 16-18	Junior Year - Spring Semester EASC 1004 Introduction to Geology or EASC 1114 or GEOG 1114 Weather & Climate EDFL 4212 Literacy in the Disciplines I EDFL 4973 Classroom Management in Content Areas EDFL 4974 Content Specific Assessment FLDX 3000 Field Experience in the Content Area## PHYS 3080 Advanced Physics Lab and PHYS 3511 Modern Physics I or CHEM 4532 Physical Chemistry: Quantum Mechanics & Spectroscopy PSY 4230 Psychology of Adolescence STCH 4050 Science Teaching Methods## Semester Total	Hrs 4 2 1 1 1 1 3 3 19
Senior Year - Fall Semester EDFL 4970 Secondary Teaching & Behavioral Management EDFL 4972 Literacy in the Disciplines II FLDX 4970 Field Experience II in the Content Area PHYS Major Electives from list on Central Degree Audit### General Education Semester Total	Hrs 2 2 1 4-6 6 15-17	Senior Year - Spring Semester*** FLDX 4468 Student Teaching Secondary II ¹⁰ FLDX 4595 Student Teaching Secondary I STCH 4080 Teaching Secondary Science Semester Total (All non-student teaching coursework and tests must be successfully completed before this semester for enrollment in student teaching.)	Hrs 4 5 3 12

Physics Major, B.S. in Ed. Degree - 126-132 hours

- *Enrollment in CHEM 1131 and MATH 1151 is dependent upon one or more of the following: math placement level, high school math courses completed, ACT/SAT standardized test scores, and/or a possible mathematics placement examination.
- **AE 1400 is a free choice elective and is highly recommended for academic success. However, this program does not require any free choice electives.
- ***The courses listed for this semester constitute the professional education (student teaching) block. The student should not take any other courses during this semester.
- #A grade of C or better is required to enroll in CHEM 1132.
- ##These courses must be taken concurrently.
- ###Students must complete a minimum of 20 semester hours in PHYS to be certified to teach physics in Missouri. CHEM 4531 and 4532 are allowed to count towards these hours. The number of PHYS electives needed will depend on choices made in the major.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
 The Missouri General Education Assessment (MoGEA) is an exam required of all Teacher Education students. Students must pass all areas of the MoGEA for admission to the Teacher Education Program. Students should take and successfully complete the MoGEA before completion of their sophomore year (60 earned hours). See your academic advisor to discuss the classes needed to prepare for the exam.
- Teacher Education candidates must take the appropriate Missouri Content Assessment (MoCA) for their certification area before they can student teach, and must pass it in order to be recommended for certification. Information and registration is available on the MEGA website: http://www.mo.nesinc.com/.
- See www.ucmo.edu/cert for statement and information (including application) on admission to teacher education. Full admission is required before enrollment in professional education classes and student teaching. The application for student teaching is due approximately one year in advance.

UNIVERSITY OF CENTRAL MISSOURI

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

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester ENGL 1020 Composition I (GE) POLS 1500 Introduction to Politics (GE) Modern Language Requirement (GE)* General Education Semester Total AE 1400 University Foundations**	Hrs 3 3 6 15 1	Freshman Year - Spring Semester ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) POLS 1510 American Government (GE) Modern Language Requirement* General Education Semester Total	Hrs 3 3 6 15
Sophomore Year - Fall Semester POLS 2540 Survey of Political Theory (fall only) Modern Language Requirement* General Education Semester Total	Hrs 3 3 9 15	Sophomore Year - Spring Semester POLS 2520 Comp. Gov't. & Politics or 2530 World Politics POLS Elective*** General Education Semester Total	Hrs 3 6 15
Junior Year - Fall Semester POLS Elective * * * Free Choice Electives Semester Total	Hrs 3 12 15	Junior Year - Spring Semester POLS 3560 Research Methods in Political Science POLS Area of Emphasis Elective Free Choice Electives Semester Total	Hrs 3 3 9 15
Senior Year - Fall Semester POLS 4601 Senior Seminar in Political Science ¹⁰ POLS Area of Emphasis Elective Free Choice Electives Semester Total	Hrs 3 3 9 15	Senior Year - Spring Semester POLS Area of Emphasis Elective Free Choice Electives Semester Total	Hrs 3 12 15

Political Science Major, B.A. Degree - 120 hours

- *See the current catalog for B.A. Degree fulfillment options. This plan is based on nine hours of modern language.
- **AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- ***For the 9 hours of POLS Electives students must take one class from each of the three areas not chosen for their area of concentration, excluding POLS 1244, 4590, 4591, and 4592.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- Students must earn 12 hours of upper level credits (3000/4000) in the major and 30 hours of upper level credits overall to meet graduation requirements. Make choices in the major electives accordingly.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA after they earn 45 credit hours but before earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

UNIVERSITY OF CENTRAL MISSOURI

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

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester ENGL 1020 Composition I (GE) POLS 1500 Introduction to Politics (GE) General Education Semester Total AE 1400 University Foundations*	Hrs 3 9 15 1	Freshman Year - Spring Semester ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) POLS 1510 American Government (GE) General Education Semester Total	Hrs 3 9 15
Sophomore Year - Fall Semester POLS 2540 Survey of Political Theory (fall only) POLS Elective** General Education Semester Total	Hrs 3 3 9 15	Sophomore Year - Spring Semester POLS 2520 Comp. Gov't. & Politics or 2530 World Politics POLS Elective** General Education Free Choice Elective Semester Total	Hrs 3 3 3 6 15
Junior Year - Fall Semester POLS Elective** Free Choice Electives Semester Total	Hrs 3 12 15	Junior Year - Spring Semester POLS 3560 Research Methods in Political Science POLS Area of Emphasis Elective Free Choice Electives Semester Total	Hrs 3 3 9 15
Senior Year - Fall Semester POLS 4601 Senior Seminar in Political Science ¹⁰ POLS Area of Emphasis Electives Free Choice Electives Semester Total	Hrs 3 3 9 15	Senior Year - Spring Semester POLS Area of Emphasis Elective Free Choice Electives Semester Total	Hrs 3 12 15

Political Science Major, B.S. Degree - 120 hours

- *AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- **For the 9 hours of POLS Electives students must take one class from each of the three areas not chosen for their area of concentration, excluding POLS 1244, 4590, 4591, and 4592.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- Students must earn 12 hours of upper level credits (3000/4000) in the major and 30 hours of upper level credits overall to meet graduation requirements. Make choices in the major electives accordingly.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA after they earn 45 credit hours but before earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

Professional Photography Major, B.S. Degree (43-587)

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester ENGL 1020 Composition I (GE) PHOT 1210 Foundations of Professional Photography PHOT 1211 Image Critique PHOT 1216 Photographer's Forum 1 PHOT 1230 Digital Imaging General Education Semester Total AE 1400 University Foundations*	Hrs 3 1 1 3 3 1 4 1	Freshman Year - Spring Semester ENGL 1030 Composition II (GE) or CTE 3060 Tech. Writing (GE) PHOT 2210 Studio Photography PHOT 2230 Color Imaging General Education Semester Total	Hrs 3 3 6 15
Sophomore Year - Fall Semester PHOT 2216 Photographer's Forum 2 PHOT 2220 Digital Workflow PHOT 2250 Portrait Photography General Education Semester Total	Hrs 1 3 9 16	Sophomore Year - Spring Semester PHOT 2215 History of Photography General Education Semester Total	Hrs 3 12 15
Junior Year - Fall Semester PHOT 2200 Editorial Photography PHOT 3216 Photographer's Forum 3** PHOT Major Elective General Education Free Choice Elective Semester Total	Hrs 3 1 3 6 3 16	Junior Year - Spring Semester PHOT 3260 Digital Media PHOT Major Electives Free Choice Electives (take upper level 3000/4000 if needed)# Semester Total	Hrs 3 6 7 16
Senior Year - Fall Semester PHOT 4216 Photographer's Forum 4 PHOT 4230 Business Management for Photographers PHOT Major Elective Free Choice Electives Semester Total	Hrs 1 3 9 16	Senior Year - Spring Semester PHOT 4270 Portfolio ¹⁰ Free Choice Electives (take upper level 3000/4000 if needed)# Semester Total	Hrs 3 9 12

Professional Photography Major, B.S. Degree - 120 hours

- *AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- **Mid-Program Review is required before the conclusion of the 3rd Photographer's Forum. Successful completion is required before students can enroll in PHOT 4270 Portfolio.
- #This major does not build in the minimum number (30) of upper-level credit hours required for graduation. Be sure to include upper-level choices (3000/4000) in your major electives, general education, and/or free choice electives.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA after they earn 45 credit hours but before earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

Professional Pilot Major, Area 1 Airplane, B.S. Degree (43-554)

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester AVIA 1020 Aeronautics AVIA 1310 FAA Private Requirements ENGL 1020 Composition I (GE) FIN 1820 Personal Finance (GE) FLYA 1320 Private Flight A MATH 1131 Applied Calculus (GE) Semester Total AE 1400 University Foundations*	Hrs 2 3 3 1 3 15 1	 Freshman Year - Spring Semester COMM 1000 Public Speaking or COMM 1050 Fundamentals of Oral Communication Competency (GE) ECON 1010 Principles of Macroeconomics (GE) ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) FLYA 1321 Private Flight B FLYA 3310 Commercial Flight A PHYS 1104 Introduction to the Sciences: Physics (GE) Semester Total 	Hrs 3 3 1 1 4 1 5
Sophomore Year - Fall Semester AVIA 2310 Propulsion Systems AVIA 3325 FAA Instrument Requirements FLYA 2313 Instrument Flight A FLYA 2314 Instrument Flight B General Education Semester Total	Hrs 3 1 1 6 14	Sophomore Year - Spring Semester AVIA 2340 Aircraft Systems & Computers AVIA 2350 Aviation Weather (spring only) AVIA 3305 FAA Commercial Requirements FLYA 3311 Commercial Flight B FLYA 3312 Commercial Flight C General Education Semester Total	Hrs 3 3 1 1 5 16
Junior Year - Fall Semester ATM 4032 Hydraulics/Pneumatics AVIA 3010 Aerodynamics AVIA 3370 Transport Aircraft Systems AVIA 3372 Advanced Transport Aircraft Systems FLYA 3315 Commercial Flight D or FLYA 3415 Commercial Flight D Multiengine FLYA 3316 Commercial Flight E or FLYA 3416 Commercial Flight E Multiengine MGT 3325 Business Communications Semester Total	Hrs 3 2 2 1 1 3 15	Junior Year - Spring Semester AVIA 3610 Human Factors AVIA 3080 Air Traffic Control FLYA 3317 Commercial Flight F or FLYA 3417 Commercial Flight F Multiengine MGT 3315 Management of Organizations or INDM 4210 Industrial Management General Education Semester Total	Hrs 3 2 1 3 6 15
Senior Year - Fall Semester AVIA 4040 Aviation Management AVIA 4370 Advanced Flight Crew Management AVIA 4420 Air Transportation FLYA 3330 Multi Engine Certificate or FLYA 3430 Single-Engine Add-On Major Area 1 Elective General Education Semester Total	Hrs 3 3 1 1 3 14	Senior Year - Spring Semester AVIA 4090 Aviation Law AVIA 4500 Aviation Safety AVIA 4999 Integrative Studies Capstone ¹⁰ Major Area 1 Electives Free Choice Electives* Semester Total	Hrs 3 3 3 3 3 15

Professional Pilot Major, Area 1 Airplane, B.S. Degree - 120 hours

- *AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

Professional Pilot Major, Area 2 Helicopter, B.S. Degree (43-554)

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester AVIA 1020 Aeronautics AVIA 1310 FAA Private Requirements ENGL 1020 Composition I (GE) FIN 1820 Personal Finance (GE) FLYA 1320 Private Flight A MATH 1131 Applied Calculus (GE) Semester Total AE 1400 University Foundations*	Hrs 2 3 3 1 3 15 1	Freshman Year - Spring Semester COMM 1000 Public Speaking or COMM 1050 Fundamentals of Oral Communication Competency (GE) ECON 1010 Principles of Macroeconomics (GE) ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE FLYA 1321 Private Flight B FLYH 1320 Helicopter Private Flight A PHYS 1104 Introduction to the Sciences: Physics (GE) Semester Total	Hrs 3 3 1 1 4 15
Sophomore Year - Fall Semester AVIA 1330 Principles of Helicopter Flight AVIA 2310 Propulsion Systems AVIA 3325 FAA Instrument Requirements FLYH 1321 Helicopter Private Flight B FLYH 3310 Commercial Flight A Helicopter General Education Semester Total	Hrs 2 3 1 1 5 15	Sophomore Year - Spring Semester AVIA 2340 Aircraft Systems & Computers AVIA 2350 Aviation Weather (spring only) AVIA 3305 FAA Commercial Requirements FLYH 3311 Commercial Flight B Helicopter FLYH 3312 Commercial Flight C Helicopter General Education Semester Total	Hrs 3 3 1 1 3 1 3 14
Junior Year - Fall Semester AVIA 3010 Aerodynamics AVIA 3370 Transport Aircraft Systems AVIA 3372 Advanced Transport Aircraft Systems ATM 4032 Hydraulics/Pneumatics FLYH 3315 Commercial Flight D Helicopter FLYH 3316 Commercial Flight E Helicopter MGT 3325 Business Communications Semester Total	Hrs 3 2 2 3 1 1 3 1 5	Junior Year - Spring Semester AVIA 3610 Human Factors AVIA 3080 Air Traffic Control FLYH 3317 Commercial Flight F Helicopter MGT 3315 Management of Organizations or INDM 4210 Industrial Management General Education Semester Total	Hrs 3 2 1 3 3 15
Senior Year - Fall Semester AVIA 4040 Aviation Management AVIA 4370 Advanced Flight Crew Management AVIA 4420 Air Transportation General Education Semester Total	Hrs 3 3 3 6 15	Senior Year - Spring Semester AVIA 4090 Aviation Law AVIA 4500 Aviation Safety AVIA 4999 Integrative Studies Capstone ¹⁰ Major Area 2 Electives Free Choice Electives* Semester Total	Hrs 3 3 3 4 16

Professional Pilot Major, Area 2 Helicopter, B.S. Degree - 120 hours

- *AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

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

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester ENGL 1020 Composition I (GE) PSY 1000 Orientation to Psychology PSY 1100 General Psychology (GE) Modern Language Requirement (GE)* General Education Semester Total	Hrs 3 1 3 3 6 16	Freshman Year - Spring Semester ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) Modern Language Requirement* General Education Semester Total	Hrs 3 3 9 15
Sophomore Year - Fall Semester PSY 2100 Research Methods (Choices 1 & 2) (3 hrs) or PSY 2110 Research Design & Analysis I (Choices 3 & 4 (4 hrs)**# Modern Language Requirement* General Education Semester Total	Hrs 3-4 3 9 15-16	Sophomore Year - Spring Semester PSY 4520 Stats for the Behavioral Sci. (Choices 1 & 2) (3 hrs) or PSY 2120 Res. Des. & Analysis II (Choices 3 & 4) (4 hrs)**# PSY 2130 Learning General Education Free Choice Electives Semester Total	Hrs 3-4 3 6 3 15-16
Junior Year - Fall Semester PSY 3120 Brain & Behavior (Choices 1 & 3) or PSY 3130 Physiological Psychology (Choices 2 & 4)# PSY 3220 Lifespan Development Free Choice Electives Semester Total	Hrs 3-4 3 8 14-15	Junior Year - Spring Semester PSY 3340 Social Psychology PSY 4440 Abnormal Psychology Free Choice Electives Semester Total	Hrs 3 9 15
Senior Year - Fall Semester PSY 4310 Theories of Personality Free Choice Electives (Upper Level 3000/4000)## Semester Total	Hrs 3 12 15	Senior Year - Spring Semester PSY 4110 Systems of Psychology ¹⁰ Free Choice Electives Semester Total	Hrs 3 9-12 12-15

Psychology Major, B.A. Degree - 120 hours

- *Refer to the Bachelor's Degree Requirements section in the catalog for the B.A. Modern Language requirement. This plan is based on three modern language courses.
- **These courses are only offered during the semesters indicated.
- #Students will choose among four choices of classes of 9-12 credit hours. See the 2015 Undergraduate Catalog for grouping choices.
- ##This major does not build in the minimum number (30) of upper-level credit hours required for graduation. Be sure to include upper-level choices (3000/4000) in your general education and/or free choice electives. The number of upper level free choice electives will depend on choices made in the general education and major.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA after they earn 45 credit hours but before earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

UNIVERSITY OF CENTRAL MISSOURI

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

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester ENGL 1020 Composition I (GE) PSY 1000 Orientation to Psychology PSY 1100 General Psychology (GE) General Education Semester Total	Hrs 3 1 3 9 16	Freshman Year - Spring Semester ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE General Education Semester Total	Hrs 3 12 15
Sophomore Year - Fall Semester PSY 2110 Research Design & Analysis I (fall only)** General Education Free Choice Electives Semester Total	Hrs 4 9 2 15	Sophomore Year - Spring Semester PSY 2120 Research Design & Analysis II (spring only)** PSY 2130 Learning General Education Free Choice Electives Semester Total	Hrs 4 3 5 15
Junior Year - Fall Semester PSY 3130 Physiological Psychology PSY 3220 Lifespan Development Free Choice Electives Semester Total	Hrs 4 3 8 15	Junior Year - Spring Semester PSY 3340 Social Psychology PSY 4440 Abnormal Psychology PSY Major Electives* Free Choice Electives# Semester Total	Hrs 3 3 9 15
 Senior Year - Fall Semester PSY 4310 Theories of Personality PSY Major Electives* Free Choice Electives (2 hours of Upper Level 3000/4000 may be needed depending on choices made in general education)# Semester Total 	Hrs 3 3 9 15	Senior Year - Spring Semester PSY 4110 Systems of Psychology ¹⁰ PSY Major Electives* Free Choice Electives Semester Total	Hrs 3 3 8 14

Psychology Major, B.S. Degree - 120 hours

- *See the 2015 Undergraduate Catalog for a list of courses that fulfill major electives for the degree. If PSY 4230 is chosen it will count in both the major and general education. If chosen, 3 additional hours of free choice electives will be needed to reach 120 hours.
- **These courses are only offered during the semesters indicated.
- #This major does not build in the minimum number (30) of upper-level credit hours required for graduation. Be sure to include upper-level choices (3000/4000) in your general education and/or free choice electives. The number of upper level free choice electives will depend on choices made in the general education.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

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

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester COMM 1000 Public Speaking or COMM 1050 Fundamentals of Oral Communication Competency (GE)* COMM 2620 Introduction to Public Relations* ENGL 1020 Composition I (GE)* MKT 1400 Orientation to Marketing General Education Semester Total	Hrs 3 3 1 3 1 3 13	Freshman Year - Spring Semester COMM 2625 Writing & Editing for Public Relations* ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) General Education Semester Total	Hrs 3)* 3 9 15
Sophomore Year - Fall Semester COMM 2100 Introduction to Communication Theory COMM 3620 Strategic Planning & Research for PR* General Education Semester Total	Hrs 3 3 9 15	Sophomore Year - Spring Semester COMM 3100 Communication Research Methods COMM 3625 Design & Layout for Publications General Education Semester Total (**Apply for admission to the major during this semester.)	Hrs 3 3 9 15
Junior Year - Fall Semester COMM 3640 Integrated Strategic Communication COMM 4680 Advanced PR Writing COMM Major Elective*** General Education Free Choice Elective Semester Total	Hrs 3 3 3 3 3 3 1 5	Junior Year - Spring Semester COMM 4250 The Law & Digital Media COMM 4630 Electronic & Social Media for PR COMM 4685 Strategic Planning through PR Case Analysis Free Choice Electives# Semester Total	Hrs 3 3 6 15
Junior/Senior Year - Summer Semester COMM 4605 PR Internship## Semester Total	Hrs 3 3		
Senior Year - Fall Semester COMM 4610 PR Management & Industry Practices COMM Major Elective*** Free Choice Electives# Semester Total	Hrs 3 3 9 15	Senior Year - Spring Semester COMM 4690 Campaigns ¹⁰ COMM Major Elective*** Free Choice Electives# Semester Total	Hrs 3 3 8 14

Public Relations Major, B.S. Degree - 120 hours

- *A grade of C or higher is required in these courses.
- **Admission to this major is required. Students should apply for admission after meeting the following requirements: completion of COMM 1000 or 1050, ENGL 1020, and ENGL 1030 or CTE 3060 (a C or higher in ENGL 1080 may substitute for 1020/1030) with a grade of C or higher; completion of COMM 2620, 2625, and 3620 with a grade of C or higher and a 2.33 or higher GPA in these three courses (essentially, a minimum of 1 B and 2 C grades).
- ***This major requires 9 hours of COMM major electives from the following list: COMM 3650, 4510, 4600, 4605, 4625, 4627, 4670, 4675.
- #This program requires 26 credit hours of Free Choice Electives to reach the 120 hours required for graduation. It is recommended, but not required, that students consider adding the Industry Practices concentration (18 hours) or a minor to their degree program.
- ##Internship may also be completed during the fall or spring semesters.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- To graduate with this major, students must have a 2.25 cumulative and UCM GPA and a 2.50 major GPA.
- During the capstone course taken in the senior year, all graduates must satisfactorily complete a final assessment project before graduating. See department advisor for requirements.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA after they earn 45 credit hours but before earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

Radiologic Technology, B.S. Degree (43-609)

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester BIOL 1000 The Discipline of Biology and Earth Science BIOL 1110 Principles of Biology CHEM 1131 General Chemistry I (GE) ENGL 1020 Composition I (GE) MATH 1111 College Algebra (GE) SOC 1800 General Sociology (GE) Semester Total	Hrs 1 3 5 3 3 3 18	Freshman Year - Spring Semester BIOL 3215 Medical Terminology BIOL 3401 Human Anatomy ENGL 1030 Composition II (GE) PSY 1100 General Psychology (GE) General Education Semester Total	Hrs 2 3 3 6 17
Sophomore Year - Fall Semester BIOL 3402 Human Physiology PHYS 1101 College Physics I (GE) General Education Semester Total	Hrs 5 4 8 17	Sophomore Year - Spring Semester BIOL 3211 Comparative Anatomy BIOL 3611 Microbiology BIOL 4002 Life Science Senior Seminar ¹⁰ COMM 1000 Public Speaking (GE) PHIL 2300 Ethics (GE) Semester Total	Hrs 4 1 3 3 15
Junior Year - Fall Semester - Special Credit Radiologic Technology Special Credits Semester Total	Hrs 12 12	Junior Year - Spring Semester - Special Credit Radiologic Technology Special Credits Semester Total	Hrs 12 12
Junior Year - Summer Semester - Special Credit Radiologic Technology Special Credits Semester Total	Hrs 6 6		
Senior Year - Fall Semester - Clinical Clinical Credits Semester Total	Hrs 12 12	Senior Year - <i>Spring Semester - Clinical</i> Clinical Credits Semester Total	Hrs 12 12
Senior Year - Summer Semester - <i>Clinical</i> Clinical Credits Semester Total	Hrs 6 6		

Radiologic Technology, B.S. Degree - 126 hours

- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- Candidates for this degree must maintain a minimum cumulative grade-point average (each affiliate establishes their own minimum GPA) and have a minimum grade of C or better in listed program courses.
- Candidates for this degree must successfully complete a minimum number of hours of shadowing in a diagnostic area of Radiologic Technology (each affiliate establishes their own minimum number of hours).
- Students must meet with a departmental advisor within enrolling in 30 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.
- Coursework completed in the junior and senior years are transferred to UCM as the listed course equivalencies in the Undergraduate Catalog.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA after they earn 45 credit hours but before earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

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

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester ENGL 1020 Composition I (GE) MATH 11111 College Algebra (GE)* SAFE 1000 Exploring Safety Sciences+ SAFE 3000 Principles of Accident Causation & Prevention*+ General Education Semester Total	Hrs 3 1 3 6 16	Freshman Year - Spring Semester CHEM 1104 Introduction to the Sciences: Chemistry (GE)*++ PSY 1100 General Psychology (GE) SAFE 3070 Safety Leadership General Education Free Choice Elective (SAFE 2900+, needed for 4940)** Semester Total	Hrs 4 3 2-3 3 15-16
Sophomore Year - Fall Semester CTE 3060 Technical Writing (GE)# PHYS 1103 Introduction to the Sciences: Physics (GE)++ SAFE 3430 Industrial Hazard Control (2900 hidden prereq)# SAFE 4020 Legal Aspects of Safety & Health General Education Semester Total	Hrs 3 3 3 3 3 3 15	Sophomore Year - Spring Semester SAFE 3120 Introduction to Industrial Hygiene# SAFE 4510 Loss Control SAFE 4520 Safety & Risk Analysis Free Choice Elective (SAFE 4025, needed for 4010)** General Education Semester Total	Hrs 3 3 3 3 3 15
Junior Year - Fall Semester SAFE 4000 Ergonomics in Safety & Health SAFE 4430 Workers Compensation Legislation SAFE 4425 Safety & Health Legislation & Standards SAFE 4940 Statistical Analysis for Risk Management (2900 prereq)** General Education Semester Total	Hrs 3 3 3 3 3 3 3 1 5	Junior Year - Spring Semester SAFE 4010 Accident Investigation (SAFE 4025 prereq)** SAFE 4560 Systems Safety SAFE 4850 Industrial Fire Protection General Education Semester Total	Hrs 3 3 3 6 15
Summer – Between Junior & Senior Year SAFE 4990 Internship in Safety Sciences## or Departmentally Approved Elective Semester Total	Hrs 3 3		
Senior Year - Fall Semester SAFE 4035 Safety Program Management SAFE 4140 Safety & Health Laboratory Free Choice Elective or Optional Minor Coursework Semester Total	Hrs 3 3 8 14	Senior Year - Spring Semester SAFE 4055 Safety Capstone Experience ¹⁰ SAFE 4435 Environmental Compliance Free Choice Elective or Optional Minor Coursework Semester Total	Hrs 3 3 6 12

Safety Management Major, B.S. Degree - 120 hours

- *A grade of C or higher is required in these courses for enrollment in SAFE 3120.
- +A grade of C or higher is required in these courses for enrollment in SAFE 3430.
- ++A grade of C or higher is required in these courses for graduation in this major.
- **SAFE 2900 and 4025 should be taken as part of the free choice electives. These classes are prerequisites for future major classes.
- #A grade of C or higher is required in these courses for enrollment in future major coursework. See the Undergraduate Catalog for more information.
- ##SAFE 4990 should be taken during the summer.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- Students seeking to graduate from this program must have a minimum 2.20 cumulative grade-point average and have completed chemistry with lab (CHEM 1104) and physics (PHYS 1103) with a grade of C or higher.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

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

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Students must meet with their faculty advisor in the Department of History and Anthropology each semester prior to enrollment.

Freshman Year - Fall Semester CTE 2000 Technology and Society (GE) ENGL 1020 Composition I (GE) General Education Math General Education Semester Total	Hrs 3 3 3 6 15	Freshman Year - Spring Semester ANTH 1810 Human Prehistory ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) HIST 1350 History of the United States to 1877 (GE) General Education Science w/lab General Education Semester Total	Hrs 3 3 4 3 16
Sophomore Year - Fall Semester ANTH 1820 Cultural Anthropology HIST 1351 History of the United States from 1877 (Foundations Block)# EDFL 2100 Introduction to the Teaching Profession# FLDX 2150 Introductory Field Experience# EDFL 2240 Educational Psychology# EDSP 2100 Education of the Exceptional Child# Semester Total (After this semester take US History content exam.)	Hrs 3 3 1 3 3 1 1 5 1 6	 Sophomore Year - Spring Semester EDFL 2250 Introduction to English Language Learners and Culturally Responsive Pedagogy HIST 2400 History of the Early World POLS 1510 American Government PSY 1100 General Psychology SOC 1800 General Sociology (GE) General Education Semester Total (Successfully complete MoGEA exam by end of this semester (After this semester take Behavioral Sciences and Political Science content exams.) 	Hrs 2 3 3 3 3 3 3 17
Junior Year - Fall Semester ECON 1010 Principles of Macroeconomics EDFL 4210 Introduction to Content Area Literacy GEOG 2212 World Geography HIST 2401 History of the Early Modern World HIST 43XX Upper-Level Elective* PSY 4230 Psychology of Adolescence (GE) Semester Total (After this semester take Geography content exam.)	Hrs 3 2 3 3 3 3 17	Junior Year - Spring Semester ECON 1011 Principles of Microeconomics HIST 2402 History of the Modern World HIST 43XX Upper-Level Elective* (Social Studies Block)## FLDX 3000 Field Experience in the Content Area## SOSC 4972 Literacy in Social Studies## SOSC 4973 Secondary Classroom Management in SS## SOSC 4974 Social Studies Assessment## Semester Total (After this semester take World History and Economics conte exams.)	Hrs 3 3 1 2 2 1 15 mt
Senior Year - Fall Semester EDFL 4212 Literacy in the Disciplines I EDFL 4970 Secondary Teaching & Behavioral Management FLDX 4970 Field Experience II in the Content Area	Hrs 2 2 1	Senior Year - Spring Semester++ FLDX 4595 Student Teaching Secondary I FLDX 4468 Student Teaching Secondary II ¹⁰ Semester Total	Hrs 6 6 12

Semester Total Social Studies Major, B.S. in Ed. Degree - 122 hours

POLS 2511 State Government

HIST 44XX Upper-Level Elective*+

SOSC 4074 Methods of Teaching Social Studies

- #These four courses must be taken as a block, see your academic advisor for enrollment.
- *See catalog for a list of History classes to fulfill the upper-level electives in American History (HIST 43XX) and World History (HIST 44XX) requirements. • ##These four courses must be taken as a block.

student teaching.)

(All non-student teaching coursework and tests must be

successfully completed before this semester for enrollment in

- +The department recommends inclusion of at least one course that focuses on a non-western society, nation or region or on the non-western world. A list of the courses which fulfill this requirement is available from the Department of History and Anthropology and is on file with the academic advisors.
- ++The courses listed for this semester constitute the professional education (student teaching) block. The student should not take any other courses during this semester.
- 10This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.

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- The Missouri General Education Assessment (MoGEA) is an exam required of all Teacher Education students. Students must pass all areas of the MoGEA for admission to the Teacher Education Program. Students should take and successfully complete the MoGEA before completion of their sophomore year (60 earned hours). See your academic advisor to discuss the classes needed to prepare for the exam.
- Teacher Education candidates must take the appropriate Missouri Content Assessment (MoCA) for their certification area before they can student teach, and must pass it in order to be recommended for certification. Information and registration is available on the MEGA website: http://www.mo.nesinc. com/.
- See www.ucmo.edu/cert for statement and information (including application) on admission to teacher education. Full admission is required before enrollment in professional education classes and student teaching. The application for student teaching is due approximately one year in advance.

UNIVERSITY OF CENTRAL MISSOURI

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

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester ENGL 1020 Composition I (GE) SOC 1800 General Sociology (GE)* General Education** Semester Total AE 1400 University Foundations***	Hrs 3 3 9 15 1	Freshman Year - Spring Semester ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) General Education Semester Total	Hrs #3 12 15
Sophomore Year - Fall Semester PSY 1100 General Psychology (GE)* General Education Free Choice Electives Semester Total	Hrs 3 6 7 16	Sophomore Year - Spring Semester BIOL 2010 Human Biology (GE)* SOWK 2600 Introduction to Social Welfare & Social Work Free Choice Electives Semester Total	Hrs 3 9 15
Junior Year - Fall Semester SOC 2805 Introduction to Social Research SOWK 3601 Social Work Practice & the Agency Experience SOWK 3612 Human Behavior Across the Lifespan SOWK 4612 Human Behavior Social Systems Free Choice Electives Semester Total	Hrs 3 3 3 4 16	Junior Year - Spring Semester SOC 3825 Race & Ethnic Relations SOWK 3605 Methods of Inquiry & Eval. for Social Workers SOWK 3610 Social Work Practice: Basic Skills SOWK 4640 SW Practice: Inter. w/Communities & Orgs. Free Choice Electives# Semester Total Apply for Admission to Social Work Program	Hrs 3 3 3 4 16
Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs

Jenior rear - rui Jeniesiei	1113
PSY 4440 Abnormal Psychology	3
SOWK 4610 Special Topics in Social Work or	
SOWK 4620 Social Services and Policy w/ Older Adults	3
SOWK 4630 SW Practice: Inter. with Families & Groups	3
SOWK 4650 Social Policy & Economic Justice	3
Free Choice Electives	3
Semester Total	15

Senior Year - Spring SemesterHrsSOWK 4660 Field Practicum9SOWK 4661 Field Practicum Seminar¹⁰3Semester Total12

Social Work Major, B.S.W. Degree - 120 hours

- *Required general education classes include: SOC 1800 General Sociology, PSY 1100 General Psychology, and BIOL 2010 Human Biology.
- **COMM 1000 Public Speaking is strongly recommended by the department. This course will fulfill the general education requirement for Communication.
- ***AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- #CTE 3060 Technical Writing or MGT 3325 Business Communication is strongly recommended by the department. CTE 3060 will fulfill the Writing II requirement in general education or three hours of free choice electives if ENGL 1030 is chosen for Writing II in general education. MGT 3325 will fulfill three hours of free choice electives.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- All Junior and Senior level courses (3000/4000) in the major are taught at the Summit Center (in Lee's Summit) only one semester each year. Check with the department for course projections if you are interested in taking classes at the Summit Center.
- Credit will not be given for life or previous work experience for courses required in the social work major.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

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

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester ENGL 1020 Composition I (GE) SOC 1800 General Sociology (GE) Modern Language Requirement (GE)* General Education Semester Total AE 1400 University Foundations**	Hrs 3 3 6 15 1	Freshman Year - Spring Semester ACST 1300 Basic Statistics (GE) ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) SOC Major Elective Modern Language Requirement* General Education Semester Total	Hrs 3 3 3 3 3 15
Sophomore Year - Fall Semester SOC 2805 Introduction to Social Research# SOC 2845 Social Inequality or SOC Major Elective*** Modern Language Requirement* General Education Semester Total	Hrs 3 3 3 6 15	Sophomore Year - Spring Semester SOC 2850 Institutions & Social Action or SOC Major Elective*** General Education Free Choice Electives or Minor Coursework+ Semester Total	Hrs 3 9 3 15
Junior Year - Fall Semester SOC Major Elective (3000/4000 level)++ General Education Free Choice Electives or Minor Coursework+ Semester Total	Hrs 3 3 9 15	Junior Year - Spring Semester SOC Major Elective (3000/4000 level)++ Free Choice Electives or Minor Coursework+ Semester Total	Hrs 3 12 15
Senior Year - Fall Semester SOC 4860 Sociological Thought (fall only) SOC 4890 Social Survey Research (fall only) Free Choice Electives***(3000/4000 level)++	Hrs 3 3 9	Senior Year - Spring Semester SOC 4895 Senior Seminar in Public Sociology (spring only) ¹⁰ Free Choice Electives***(3000/4000 level)++ Semester Total	Hrs 3 12 15

Sociology Major, B.A. Degree - 120 hours

Semester Total

• *Refer to the Bachelor's Degree Requirements section in the Undergraduate Catalog for the B.A. Modern Language requirement. This plan is based on three modern language courses and thus, 45 hours of free choice electives.

15

- **AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- ***Students must complete SOC 2845 or 2850 as part of the major curriculum. If SOC 2845 is not taken in the fall semester, SOC 2850 should be taken in the spring semester. Students are required to take one, but may complete the other as part of the 12 hours of SOC major electives.
- #Students pursuing a double major or minor who have already completed a upper-level research course may substitute that course for SOC 2805 with permission of the program coordinator.
- +This degree program includes 45-48 hours of free choice electives (hours vary due to B.A. Modern Language requirement);
 a minor is highly recommended by the department but is not required. The number of free choice electives required will vary
 based on general education choices and if a minor is chosen.
- ++UCM requires 30 hours overall of upper-level credits (3000/4000) for graduation. Twelve hours of upper-level credits are
 required in the major. This major contains 9 hours of required upper-level courses, students must choose an additional 3 hours
 of upper-level credits as part of the 18 hours of SOC major electives. To meet the 30 hours overall, be sure to include additional
 upper-level choices in your major electives, general education, and/or free choice electives.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA after they earn 45 credit hours but before earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

UNIVERSITY OF CENTRAL MISSOURI

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

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester ENGL 1020 Composition I (GE) SOC 1800 General Sociology (GE) General Education Semester Total AE 1400 University Foundations*	Hrs 3 9 15 1	Freshman Year - Spring Semester ACST 1300 Basic Statistics (GE) ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) SOC Major Elective General Education Semester Total	Hrs 3 3 3 6 15
Sophomore Year - Fall Semester SOC 2805 Introduction to Social Research# SOC 2845 Social Inequality or SOC Major Elective * * General Education Semester Total	Hrs 3 9 15	Sophomore Year - Spring Semester SOC 2850 Institutions & Social Action or SOC Major Elective ** General Education Free Choice Electives or Minor Coursework *** Semester Total	Hrs 3 6 15
Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
SOC Major Electives	6	SOC Major Elective (3000/4000 level)+	3
Free Choice Electives or Minor Coursework***	9	Free Choice Electives or Minor Coursework***	12
Semester Total	15	Semester Total	15
Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
SOC 4860 Sociological Thought (fall only)	3	SOC 4895 Senior Seminar in Public Sociology (spring only) ¹⁴	3
SOC 4890 Social Survey Research (fall only)	3	SOC Major Elective	3
Free Choice Electives***(3000/4000 level)+	9	Free Choice Electives***(3000/4000 level)+	9
Semester Total	15	Semester Total	15

Sociology Major, B.S. Degree - 120 hours

- *AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- **Students must complete SOC 2845 or 2850 as part of the major curriculum. If SOC 2845 is not taken in the fall semester, SOC 2850 should be taken in the spring semester. Students are required to take one, but may complete the other as part of the 18 hours of SOC major electives.
- ***This degree program includes 45 hours of free choice electives; a minor is highly recommended by the department but is not required. The number of free choice electives required will vary if a minor is chosen.
- #Students pursuing a double major or minor who have already completed a upper-level research course may substitute that course for SOC 2805 with permission of the program coordinator.
- +UCM requires 30 hours overall of upper-level credits (3000/4000) for graduation. Twelve hours of upper-level credits are required in the major. This major contains 9 hours of required upper-level courses, students must choose an additional 3 hours of upper-level credits as part of the 18 hours of SOC major electives. To meet the 30 hours overall, be sure to include additional upper-level choices in your major electives, general education, and/or free choice electives.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA after they earn 45 credit hours but before earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

Special Education: Cross-Categorical Disabilities, B.S. in Ed. Degree (41-01784)

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester ENGL 1020 Composition I (GE) MATH 1820 Introduction to Mathematical Modeling (GE) POLS 1510 American Government (GE) General Education Science with lab General Education Managing Information Semester Total AE 1400 University Foundations*	Hrs 3 3 4 2-3 15-16 1	Freshman Year - Spring Semester EDFL 2100 Introduction to the Teaching Profession FLDX 2150 Introductory Field Experience EDFL 2240 Educational Psychology (GE) EDSP 2100 Education of the Exceptional Child ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) MATH 1620 Contemporary Mathematics (GE) Semester Total	Hrs 3 1 3 3 3 3 16
Sophomore Year - Fall Semester ECEL 2110 Diversity and Social Justice (GE) ECEL 2610 Life & Earth Science for Teachers or ECEL 2620 Physical Science & Eng. Design for Teachers EDSP 4140 Collaborating with Families of Excep. Children HIST 1350 or 1351 History of the United States (GE) General Education Semester Total	Hrs 3 3 3 3 3 15	Sophomore Year - Spring Semester CD 4402 Language Acq. for Children w/Devel. Disabilities EDFL 2250 Introduction to English Language Learners and Culturally Responsive Pedagogy EDFL 3210 Methods of Reading Instruction General Education Semester Total (Successfully complete MoGEA exam by end of this semester)	Hrs 2 3 2 9 16
Junior Year - Fall Semester EDSP 4620 Evaluation of Abilities & Achievement EDSP 4150 Career Development for Student w/Disabilities EDFL 3215 Teaching Reading Content MATH 3890 Concepts & Methods for Teaching Special Educ PSY 2220 Child Psychology** Free Choice Electives Semester Total	Hrs 3 2 3 3 2-3 16-17	Junior Year - Spring Semester EDSP 4210 Teaching Emergent & At-Risk Readers EDSP 4360 Behavior Management Techniques EDSP 4361 Practicum in Behavior Management Techniques EDSP 4385 Intro. Cross Cat. Spec. Ed. (spring & summer onl MATH 4890 Math for Special Education PSY 4230 Psychology of Adolescence** Semester Total	Hrs 3 2 1 y)3 3 3 15
Senior Year - Fall Semester EDSP 4421 Methods of Cross-Cat I: ID/OHI (fall only) EDSP 4422 Methods of Cross-Cat Dis. II: LD (fall only) EDSP 4423 Methods of Cross-Cat Dis. III E/BD (fall only) EDSP 4700 IEP and the Law Free Choice Electives Semester Total (All non-student teaching coursework and tests must be successfully completed by the end of this semester for enrollment in student teaching.)	Hrs 3 3 3 2 14	Senior Year - Spring Semester*** FLDX 4395 Student Teaching in Special Education 1 ¹⁰ FLDX 4468 Student Teaching Second II Semester Total	Hrs 8 4 12

Special Education: Cross-Categorical Disabilities Major, B.S. in Ed. Degree - 120 hours

- *AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- **With permission of advisor, students may substitute PSY 3220 Lifespan Psychology for both PSY 2220 and PSY 4230.
- ***The courses listed for this semester constitute the professional education (student teaching) block. The student should not take any other courses during this semester.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- The Missouri General Education Assessment (MoGEA) is an exam required of all Teacher Education students. Students must pass all
 areas of the MoGEA for admission to the Teacher Education Program. Students should take and successfully complete the MoGEA
 before completion of their sophomore year (60 earned hours). See your academic advisor to discuss the classes needed to prepare for
 the exam.
- Teacher Education candidates must take the appropriate Missouri Content Assessment (MoCA) for their certification area before they can student teach, and must pass it in order to be recommended for certification. Information and registration is available on the MEGA website: http://www.mo.nesinc.com/.
- See www.ucmo.edu/cert for statement and information (including application) on admission to teacher education. Full admission
 is required before enrollment in professional education classes and student teaching. The application for student teaching is due
 approximately one year in advance.

Special Education: Autism and Severe Disabilities Major, B.S. in Ed. Degree (41-02784)

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester	Hrs
ENGL 1020 Composition I (GE)	3
MATH 1820 Introduction to Mathematical Modeling (GE)	3
POLS 1510 American Government (GE)	3
General Education Science with lab	4
General Education Managing Information	2-3
Semester Total	15-16
AE 1400 University Foundations*	1
Sophomore Year - Fall Semester ECEL 2610 Life & Earth Science for Teachers or	Hrs
ECEL 2610 Life & Earth Science for Teachers or	Hrs 3
ECEL 2610 Life & Earth Science for Teachers or ECEL 2620 Physical Science & Eng. Design for Teachers	
ECEL 2610 Life & Earth Science for Teachers or ECEL 2620 Physical Science & Eng. Design for Teachers EDSP 4370 Screening, Diagnosing, & Prescribing Instruction	3
ECEL 2610 Life & Earth Science for Teachers or ECEL 2620 Physical Science & Eng. Design for Teachers	3 3

Junior Year - Fall Semester	Hrs
CD 4402 Language Acquisition for Children w/Dev. Disabil.	2
ECEL 2110 Diversity and Social Justice (GE)	3
EDFL 3210 Methods of Reading Instruction	3
EDSP 4620 Evaluation of Abilities & Achievement	3
PSY 2220 Child Psychology**	3
MATH 3890 Concepts & Methods of Teach. for Special Educ	. 3
Semester Total	17

Senior Year - Fall Semester	Hrs
EDSP 4330 Curriculum & Methods for Teaching Students w/ Autism and Severe Developmental Disabilities I# EDSP 4450 Curriculum & Methods for Teaching Students w/	3
Autism and Severe Developmental Disabilities II#	3
EDSP 4700 IEP and the Law	3
PSY 4230 Psychology of Adolescence**	3
General Education	3
Free Choice Electives	1-2
Semester Total	16-17
(All non-student teaching coursework and tests must be successfully completed by the end of this semester for enrollment in student teaching.)	

Freshman Year - Spring Semester EDFL 2100 Introduction to the Teaching Profession FLDX 2150 Introductory Field Experience EDFL 2240 Educational Psychology (GE) EDSP 2100 Education of the Exceptional Child ENGL 1030 Composition II or CTE 3060 Tech. Writing MATH 1620 Contemporary Mathematics (GE) Semester Total	Hrs 3 1 3 (GE) 3 3 16
 Sophomore Year - Spring Semester EDFL 2250 Introduction to English Language Learners an Culturally Responsive Pedagogy EDSP 4140 Collaborating with Families of Excep. Childle EDSP 4350 Augmentative & Alternative Comm. (spring of PE 4340 Adaptive Physical Education General Education Semester Total (Successfully complete MoGEA exam by end of this semicondition) 	2 ren 3 only) 3 3 3 14
Junior Year - Spring Semester EDSP 4210 Teaching Emergent & At-Risk Readers EDSP 4310 Introduction to Students with Autism and SDI EDSP 4360 Behavior Management Techniques EDSP 4361 Practicum in Behavior Management Techniq EDSP 4161 Physical and Health Care Needs of Student Autism and Severe Developmental Disabilities## MATH 4890 Math for Special Education NUR 4060 Physical and Health Needs of the Medically Fragile Child## Semester Total	2 ues 1 ts with 2 3 1 14
Senior Year - Spring Semester+ FLDX 4395 Student Teaching in Special Education I ¹⁰ FLDX 4468 Student Teaching II	Hrs 8 4

12

Special Education: Autism and Severe Disabilities Major, B.S. in Ed. - 120 hours

- *AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- **With permission of advisor, students may substitute PSY 3220 Lifespan Psychology for both PSY 2220 and PSY 4230.
- #These SDD courses (EDSP 4310, 4330, and 4450) are variably offered. Please contact your faculty advisor to make sure you are planning to take the courses in the appropriate semester to stay on track.

Semester Total

- ##EDSP 4161 and NUR 4060 must be taken in the same semester.
- +The courses listed for this semester constitute the professional education (student teaching) block. The student should not take any other courses during this semester.
- 10This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- The Missouri General Education Assessment (MoGEA) is an exam required of all Teacher Education students. Students must pass all areas of the MoGEA for admission to the Teacher Education Program. Students should take and successfully complete the MoGEA before completion of their sophomore year (60 earned hours). See your academic advisor to discuss the classes needed to prepare for the exam.
- Teacher Education candidates must take the appropriate Missouri Content Assessment (MoCA) for their certification area before they can student teach, and must pass it in order to be recommended for certification. Information and registration is available on the MEGA website: http://www.mo.nesinc.com/.
- See www.ucmo.edu/cert for statement and information (including application) on admission to teacher education. Full admission is required before enrollment in professional education classes and student teaching. The application for student teaching is due approximately one year in advance.

Special Education: Early Childhood Special Education Major, B.S. in Ed. Degree (41-03784)

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester ENGL 1020 Composition I (GE) MATH 1820 Introduction to Mathematical Modeling (GE) POLS 1510 American Government (GE) General Education Science with lab General Education Managing Information Semester Total	Hrs 3 3 4 2-3 15-16	Freshman Year - Spring Semester EDFL 2240 Educational Psychology (GE) EDFL 2100 Foundation of Education FLDX 2150 Introductory Field Experience EDSP 2100 Education of the Exceptional Child ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) MATH 1620 Contemporary Mathematics (GE) Semester Total	Hrs 3 1 3 3 3 3 16
Sophomore Year - Fall Semester CFD 1220 Child Development ECEL 2110 Diversity and Social Justice (GE) ECEL 2610 Life & Earth Science for Teachers or ECEL 2620 Physical Science & Eng. Design for Teachers EDFL 2250 Introduction to English Language Learners and Culturally Responsive Pedagogy HIST 1350 or 1351 History of the United States (GE) Semester Total	Hrs 3 3 2 3 14	Sophomore Year - Spring Semester CFD 1230 Observation of Children D&N 2310 Early Childhood Nutrition & Health EDSP 3150 Community & Family Resources EDSP 3151 Community & Family Resources Practicum EDSP 4140 Collaborating with Families of Excep. Children General Education Semester Total (Successfully complete MoGEA exam by end of this semester)	Hrs 2 2 2 1 3 6 16

Junior Year - Fall Semester EDFL 3210 Methods of Reading Instruction EDSP 4370 Screening, Diagnosing, & Prescribing Instruction EDSP 4620 Evaluation of Abilities & Achievement MATH 3890 Concepts & Methods for Teaching Special Ed. General Education Semester Total	Hrs 3 3 3 3 3 1 5	Junior Year - Spring Semester EDSP 4210 Teaching Emergent & AtRisk Readers EDSP 4350 Augmentative & Altern. Comm. (spring only) EDSP 4360 Behavior Management Techniques EDSP 4361 Practicum in Behavior Management Techniques EDSP 4161 Physical and Health Care Needs of Students with Autism and Severe Developmental Disabilities** EDSP 4320 Intro. to Early Childhood Special Education NUR 4060 Physical and Health Needs of the Medically Fragile Child** Semester Total	Hrs 3 2 1 2 3 1 1 5
Senior Year - Fall Semester CD 2000 The Bases of Speech & Language ECEL 3220 The Teaching of Language Arts EDSP 4440 Curriculum & Methods ECSE EDSP 4700 IEP and the Law General Education Free Choice Electives Semester Total	Hrs 2 3 3 3 2-3 16-17	Senior Year - Spring Semester ** FLDX 4395 Student Teaching in Special Education 1 ¹⁰ FLDX 4396 Student Teaching in Special Education II Semester Total (All non-student teaching coursework and tests must be successfully completed before this semester for enrollment in student teaching.)	Hrs 6 6 12

Special Education: Early Childhood Special Education Major, B.S. in Ed. Degree - 120 hours

- *EDSP 4161 and NUR 4060 must be taken in the same semester.
- **The courses listed for this semester constitute the professional education (student teaching) block. The student should not take any other courses during this semester.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- Please contact your faculty advisor to make sure you are planning to take the courses in the appropriate semester to stay on track. EDSP 4320 is fall semester only, and EDSP 4350, 4440, and 4470 are spring semester only.
- The Missouri General Education Assessment (MoGEA) is an exam required of all Teacher Education students. Students must pass all areas of the MoGEA for admission to the Teacher Education Program. Students should take and successfully complete the MoGEA before completion of their sophomore year (60 earned hours). See your academic advisor to discuss the classes needed to prepare for the exam.
- Teacher Education candidates must take the appropriate Missouri Content Assessment (MoCA) for their certification area before they
 can student teach, and must pass it in order to be recommended for certification. Information and registration is available on the
 MEGA website: http://www.mo.nesinc.com/.
- See www.ucmo.edu/cert for statement and information (including application) on admission to teacher education. Full admission
 is required before enrollment in professional education classes and student teaching. The application for student teaching is due
 approximately one year in advance.

Speech Communication and Theatre Major, B.S. in Ed. Degree (41-362)

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester ENGL 1020 Composition I (GE) THEA 1100 Oral Interpretation (GE) THEA 1500 Acting THEA 1600 Stagecraft General Education MATH Semester Total	Hrs 3 3 3 3 3 15	Freshman Year - Spring Semester ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) HIST 1350 or 1351 History of the United States (GE) THEA 2400 Discovering Theatre (GE) THEA 2610 Design Fundamentals General Education Science w/lab Semester Total	Hrs 3 3 3 4 16
Sophomore Year - Fall Semester COMM 2340 Argumentation & Debate (fall only) COMM 3390 Forensics EDFL 2100 Introduction to the Teaching Profession FLDX 2150 Introductory Field Experience EDFL 2240 Educational Psychology EDSP 2100 Education of the Exceptional Child POLS 1510 American Government (GE) Semester Total	Hrs 3 1 3 1 3 3 3 3 17	Sophomore Year - Spring Semester COMM 1000 Public Speaking COMM 2100 Introduction to Communication Theory COMM 2330 Communication in Small Groups/Teams THEA 1900 Theatre Practicum: Costume Shop THEA 3700 Directing WGS 2000 Race, Class, and Gender (GE) General Education Managing Information Semester Total (Successfully complete MoGEA exam by end of this semester)	Hrs 3 3 1 3 2 2 18

Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
EDFL 2250 Introduction to English Language Learners and		COMM 1200 Introduction to Mass Communication	3
Culturally Responsive Pedagogy#	2	EDFL 4210 Introduction to Content Area Literacy	2
FLDX 3000 Field Experience in the Content Area#	1	EDFL 4212 Literacy in the Disciplines I	2
COMM 3000 Film Appreciation (GE)	3	PSY 4230 Psychology of Adolescence	3
COMM 3325 Nonverbal Communication (fall only)	2	THEA 1900 Theatre Practicum: Scene Shop	1
THEA 4400 Literature & History of the Theatre I	3	THEA 3630 Studio Theatre I	1
General Education	6	General Education	3
Semester Total	17	Semester Total	15

Senior Year - Fall Semester DANC 3210 Musical Theatre Dance EDFL 4970 Secondary Teaching & Behavior Management FLDX 4970 Field Experience II in the Content Area EDFL 4972 Literacy in the Disciplines II EDFL 4973 Classroom Management in Content Areas EDFL 4974 Content Specific Assessment THEA 4730 Studio Theatre II THEA 4984 Methods of Teaching Speech & Theatre	Hrs 3 2 1 2 1 1 1 1 2	Senior Year - Spring Semester* FLDX 4468 Student Teaching Secondary II ¹⁰ FLDX 4595 Student Teaching Secondary I THEA 4920 Secondary Field Experience II THEA 4930 Co-Curricular Practicum Semester Total (All non-student teaching coursework and tests must be successfully completed before this semester for enrollment in student teaching)	Hrs 4 5 1 2 12
THEA 4984 Methods of Teaching Speech & Theatre Semester Total	2 13	student teaching.)	

Speech Communication and Theatre Major, B.S. in Ed. Degree - 123 hours

#These courses must be taken concurrently.

- *The courses listed for this semester constitute the professional education (student teaching) block. The student should not take any other courses during this semester.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
 The Missouri General Education Assessment (MoGEA) is an exam required of all Teacher Education students. Students must pass all areas of the MoGEA for admission to the Teacher Education Program. Students should take and successfully complete the MoGEA before completion of their sophomore year (60 earned hours). See your academic advisor to discuss the classes needed to prepare for the exam.
- Teacher Education candidates must take the appropriate Missouri Content Assessment (MoCA) for their certification area before they can student teach, and must pass it in order to be recommended for certification. Information and registration is available on the MEGA website: http://www.mo.nesinc.com/.
- See www.ucmo.edu/cert for statement and information (including application) on admission to teacher education. Full admission is required before enrollment in professional education classes and student teaching. The application for student teaching is due approximately one year in advance.

Speech-Language Pathology Major, B.S. Degree (43-273)

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester BIOL 1003 or BIOL 1004 Intro. to the Science: Ecology*(GE) CD 1000 Introduction to Communication Disorders CD 1800 Observation of Clinical Practicum in CD ENGL 1020 Composition I (GE)** General Education Semester Total AE 1400 University Foundations (CD Section)***	Hrs 3-4 3 1 3 5 15-16 1	Freshman Year - Spring Semester CHEM 1103 or 1104 Intro. to the Sciences: Chemistry or PHYS 1103 or 1104 Intro. to the Sciences: Physics*(GE) CD 2301 American Phonetics ENGL 1030 Composition II or CTE 3060 Technical Writing (GE)** General Education Semester Total	Hrs 3-4 3 6 15-16
Sophomore Year - Fall Semester CD 3301 Anatomy & Physiology of Speech & Swallowing COMM 1000 Public Speaking (GE) PSY 1100 General Psychology (GE) General Education Semester Total	Hrs 2 3 3 6 14	Sophomore Year - Spring Semester CD 3304 Speech Science General Education Free Choice Elective# Semester Total	Hrs 3 3 9 15
Junior Year - Fall Semester CD 1401 American Sign Language I (GE) CD 4401 Language Development CD 4501 Basic Neuroscience for Speech-Language Path. CD 4504 Introduction to Articulation & Phonological Disorders CD 4701 Introduction to Audiology PSY 3220 Lifespan Development Semester Total	Hrs 3 2 3 3 3 3 3 17	Junior Year - Spring Semester AT 1625 CPR/First Aid/AED for Health Care Professional CD 3503 Principles of Clinical Management CD 4505 School-age Issues in Language & Literacy CD 4706 Hearing Measurement Free Choice Electives# Semester Total	Hrs 1 3 3 5 15
 Senior Year - Fall Semester CD 4102 Counseling Persons with Communication Disorders and Their Families CD 4103 Introduction to Evidence Based Practice in Communication Disorders CD 4510 Multicultural Issues in Communication Disorders CD 4708 Aural Rehabilitation CD 4802 Undergraduate Clinical Practicum I EDSP 4700 IEP and the Law Semester Total 	Hrs 2 2 3 1 3 13	Senior Year - Spring Semester CD 4512 Best Practices in Early Childhood Intervention CD 4803 Undergraduate Clinical Practicum II ¹⁰ PSY 4520 Statistics for the Behavioral Sciences Free Choice Electives# Semester Total	Hrs 3 1 3 8 15

Speech-Language Pathology Major, B.S. Degree - Minimum hours to graduate 120

- *Students may choose from the following combinations of courses to meet their science requirements: BIOL 1003/CHEM 1104 or BIOL 1003/PHYS 1104, or BIOL 1004/CHEM 1103, or BIOL 1004/PHYS 1103. Students must take either BIOL 1003 or BIOL 1004 and must take one laboratory class. Depending on the biology choice made (lab or no lab), students will take either CHEM or PHYS with or without a laboratory.
- **Students must obtain a grade of C or better in ENGL 1020 and ENGL 1030 or 1080 or CTE 3060.
- ***AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- #The number of free choice electives required will depend on selections made in the major and general education.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- Students must obtain a grade of C or better and a 3.20 GPA in all CD courses.
- Students must contact the Undergraduate Advisor in the Communication Disorders program for admission into the program.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

Sport Management Major, B.S. Degree (43-612)

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester CIS 1600 Business Information Management (GE) General Education Semester Total AE 1400 University Foundations*	Hrs 3 12 15 1	Freshman Year - Spring Semester (apply to major) PE 1206 Fitness for a Global Community (GE) General Education Semester Total	Hrs 3 12 15
Sophomore Year - Fall Semester PE 2472 Communicating Ideas on Sport (GE) SM 2100 Introduction to Sport Management General Education Free Choice Elective Semester Total	Hrs 3 7 2 15	Sophomore Year - Spring Semester ECON 1010 Principles of Macroeconomics (GE) PE 4740 Legal Liability in Fitness/Wellness, Physical Education, Recreation and Sport Setting Free Choice Electives Semester Total	Hrs 3 2 10 15
Junior Year - Fall Semester MGT 3315 Management of Organizations MKT 3405 Marketing Policy SM 3300 Leisure and Sport SM 4700 Sport Facility Management Free Choice Elective Semester Total	Hrs 3 3 3 3 3 3 15	Junior Year - Spring Semester ECON 1011 Principles of Microeconomics SM 4200 Applied Sport Marketing SM 4300 Recreational Sports Management Free Choice Elective Semester Total	Hrs 3 3 3 3 12

Senior Year - Fall Semester	Hrs
ECON 4054 Sport Economics	3
SM 4210 Sport and Media	3
SM 4400 Sport Communication	3
SM 4900 Senior Seminar in Sport Management	3
Free Choice Elective	3
Semester Total	15
Senior Year - Summer Semester	Hrs
SM 4980 Internship ¹⁰	6
Semester Total	6

Senior Year - Spring Semester	Hrs
SM 4220 Sport Sponsorship and Retention	3
SM 4500 Sport Leadership	3
SM 4720 Managing Sporting Events	3
Free Choice Elective	3
Semester Total	12

Sport Management Major, B.S. Degree - 120 hours

- *AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

Studio Art Major (Sculpture Area), B.F.A. Degree (47-263)

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester ART 1110 Drawing I ART 1315 2-D Design ART 1800 Ideas & the Visual Arts (GE) ENGL 1020 Composition I (GE) General Education Semester Total	Hrs 3 3 3 3 3 3 1 5	Freshman Year - Spring Semester ART 1120 Drawing II ART 1325 Color and Design ART 2420 Sculpture I ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE General Education Semester Total	Hrs 3 3 3 3 3 3 15
Sophomore Year - Fall Semester ART 1815 Art History Survey I (fall only) ART 2335 3-D Design ART 3209 Figure Construction ART 3420 Sculpture II General Education Semester Total	Hrs 3 3 3 3 3 15	Sophomore Year - Spring Semester ART 1825 Art History Survey II (spring only) ART 2412 Ceramics I ART 2511 Painting I ART 3440 Sculpture III General Education Semester Total	Hrs 3 3 3 3 3 1 5
Junior Year - Fall Semester ART 2710 Printmaking I ART 3110 Drawing III ART 4420 Sculpture IV ART Elective* General Education Semester Total	Hrs 3 3 3 3 6 18	Junior Year - Spring Semester ART 4420 Sculpture IV ART 4850 20th Century Art & Architecture (fall only) or ART 4860 Contemporary Art & Design (spring only) ART Electives* General Education Semester Total	Hrs 3 6 3 1 5
Senior Year - Fall Semester ART 4420 Sculpture IV ART Electives* General Education Semester Total	Hrs 3 6 15	Senior Year - Spring Semester ART 4020 Studio Seminar ART 4221 Art Theory and Criticism ¹⁰ ART 4420 Sculpture IV General Education Semester Total	Hrs 3 3 3 6 15

Studio Art Major (Sculpture Area), B.F.A. Degree - 123 hours

- *Students must choose 15 hours of ART electives.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

Studio Art Major (Painting Area), B.F.A. Degree (47-263)

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester ART 1110 Drawing I ART 1315 2-D Design ART 1800 Ideas & the Visual Arts (GE) ENGL 1020 Composition I (GE) General Education Semester Total	Hrs 3 3 3 3 3 15	Freshman Year - Spring Semester ART 1120 Drawing II ART 1325 Color and Design ART 2511 Painting I ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) General Education Semester Total	Hrs 3 3 3 3 3 15
Sophomore Year - Fall Semester ART 1815 Art History Survey I (fall only) ART 2335 3-D Design ART 3209 Figure Construction ART 3511 or 3513 (Painting II or Painting II Plein Air) General Education Semester Total	Hrs 3 3 3 3 3 1 5	Sophomore Year - Spring Semester ART 1825 Art History Survey II (spring only) ART 2412 Ceramics I ART 2710 Printmaking I ART 3511 or 3515 (Painting II or Painting II Figure) General Education Semester Total	Hrs 3 3 3 3 3 3 15
Junior Year - Fall Semester ART 2420 Sculpture I ART 3110 Drawing III ART 3511 or 3513 (Painting II or Painting II Plein Air) ART Elective** General Education Semester Total	Hrs 3 3 3 3 6 18	Junior Year - Spring Semester ART 3510 Watercolor ART 4511 or 4515 (Painting III or Painting III Figure) ART 4850 20th Century Art & Architecture (fall only) or ART 4860 Contemporary Art & Design (spring only) ART Elective ** General Education Semester Total	Hrs 3 3 3 3 3 3 15
Senior Year - Fall Semester ART 4511 or 4513 (Painting III, Painting III Plein Air) ART Electives** General Education Semester Total	Hrs 3 6 6 15	Senior Year - Spring Semester ART 4221 Art Theory and Criticism ¹⁰ ART 4511 or 4515 (Painting III or Painting III Figure) ART Elective** General Education Semester Total	Hrs 3 3 3 6 15

Studio Art Major (Painting Area), B.F.A. Degree - 123 hours

- *Students must complete 9 hours of Painting II (ART 3511, 3513, and/or 3515) and 9 hours of Painting III (ART 4511, 4513, and/or 4515). Plein Air (3513 & 4513) is offered in the fall and Figure (3515 & 4515) is offered in the spring.
- **Students must choose 15 hours of ART major electives.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

Studio Art Major (Ceramics Area), B.F.A. Degree (47-263)

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Freshman Year - Fall Semester ART 1110 Drawing I ART 1315 2-D Design ART 1800 Ideas & the Visual Arts (GE) ENGL 1020 Composition I (GE) General Education Semester Total	Hrs 3 3 3 3 3 15	Freshman Year - Spring Semester ART 1120 Drawing II ART 1325 Color and Design ART 2412 Ceramics I ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE General Education Semester Total	Hrs 3 3 3 3 3 3 3 15
Sophomore Year - Fall Semester ART 1815 Art History Survey I (fall only) ART 2335 3-D Design ART 3209 Figure Construction ART 3412 Ceramics II General Education Semester Total	Hrs 3 3 3 3 3 15	Sophomore Year - Spring Semester ART 1825 Art History Survey II (spring only) ART 2420 Sculpture I ART 2710 Printmaking I ART 3412 Ceramics II General Education Semester Total	Hrs 3 3 3 3 3 15
Junior Year - Fall Semester ART 2511 Painting I ART 3110 Drawing III ART 3412 Ceramics II ART Elective* General Education Semester Total	Hrs 3 3 3 3 6 18	Junior Year - Spring Semester ART 4412 Ceramics III ART 4850 20th Century Art & Architecture (fall only) or ART 4860 Contemporary Art & Design (spring only) ART Electives* General Education Semester Total	Hrs 3 6 3 15
Senior Year - Fall Semester ART 4412 Ceramics III ART Electives* General Education Semester Total	Hrs 3 6 15	Senior Year - Spring Semester ART 4020 Studio Seminar ART 4221 Art Theory and Criticism ¹⁰ ART 4412 Ceramics III General Education Semester Total	Hrs 3 3 3 6 15

Studio Art Major (Ceramics Area), B.F.A. Degree - 123 hours

- *Students must choose 15 hours of ART major electives.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

Studio Art Major (Printmaking Area), B.F.A. Degree (47-263)

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Freshman Year - Fall Semester	Hrs	Freshman Year - Spring Semester	Hrs
ART 1110 Drawing I	3	ART 1120 Drawing II	3
ART 1315 2-D Design	3	ART 1325 Color and Design	3
ART 1800 Ideas & the Visual Arts (GE)	3	ART 2710 Printmaking I	3
ENGL 1020 Composition I (GE)	3	ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE)	3
General Education	3	General Education	3
Semester Total	15	Semester Total	15
Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
ART 1815 Art History Survey I (fall only)	3	ART 1825 Art History Survey II (spring only)	3
ART 2335 3-D Design	3	ART 2412 Ceramics I	3
ART 3209 Figure Construction	3	ART 2511 Painting I	3
ART 3710 Printmaking II	3	ART 3710 Printmaking II	3
General Education	3	General Education	3
Semester Total	15	Semester Total	15
Junior Year - Fall Semester ART 2420 Sculpture I ART 3110 Drawing III ART 3710 Printmaking II ART Elective* General Education Semester Total	Hrs 3 3 3 6 18	Junior Year - Spring Semester ART 3720 Printmaking III ART 4850 20th Century Art & Architecture (fall only) or ART 4860 Contemporary Art & Design (spring only) ART Electives* General Education Semester Total	Hrs 3 6 3 1 5
Senior Year - Fall Semester ART 3720 Printmaking III ART Electives* General Education Semester Total	Hrs 3 6 15	Senior Year - Spring Semester ART 3720 Printmaking III ART 4020 Studio Seminar ART 4221 Art Theory and Criticism ¹⁰ General Education Semester Total	Hrs 3 3 6 15

Studio Art Major (Printmaking Area), B.F.A. Degree - 123 hours

- *Students must choose 15 hours of ART major electives.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

Studio Art Major (Illustration Area), B.F.A. Degree (47-263)

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Freshman Year - Fall Semester ART 1110 Drawing I ART 1315 2-D Design ART 1800 Ideas & the Visual Arts (GE) ENGL 1020 Composition I (GE) General Education Semester Total	Hrs 3 3 3 3 3 3 15	Freshman Year - Spring Semester ART 1120 Drawing II ART 1325 Color and Design ART Elective* ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) General Education Semester Total	Hrs 3 3 3 3 3 15
Sophomore Year - Fall Semester ART 1815 Art History Survey I (fall only) ART 2335 3-D Design ART 2610 Introduction to Graphic Design & Illustration ART 2620 Typography General Education Semester Total	Hrs 3 3 3 3 3 15	Sophomore Year - Spring Semester ART 1825 Art History Survey II ART 2511 Painting I ART 2710 Printmaking I ART 3209 Figure Construction General Education Semester Total	Hrs 3 3 3 3 6 18
Junior Year - Fall Semester ART 2420 Sculpture I ART 3110 Drawing III ART 3625 Illustration Techniques ART 4850 20th Century Art & Arch. (fall only) or ART 4860 Contemporary Art & Design (spring only) General Education Semester Total	Hrs 3 3 3 3 3 3 15	Junior Year - Spring Semester ART 2412 Ceramics I ART 3635 Illustration Concepts ART Elective* General Education Semester Total	Hrs 3 3 6 15
Senior Year - Fall Semester ART 4625 Advanced Illustration I Art Electives* General Education Semester Total	Hrs 3 6 15	Senior Year - Spring Semester ART 4020 Studio Seminar ART 4221 Art Theory and Criticism ¹⁰ ART 4635 Advanced Illustration II ART Elective* General Education Semester Total	Hrs 3 3 3 3 3 3 15

Studio Art Major (Illustration Area), B.F.A. Degree - 123 hours

- *Students must choose 15 hours of ART electives.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA after they earn 45 credit hours but before earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

Systems Engineering Technology Major, B.S. Degree (43-879)

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Freshman Year - Fall Semester BTE 1210 Essentials of Managing Information (GE) ENGL 1020 Composition I (GE) MATH 1111 College Algebra (GE) NET 1060 Introduction to Networks* General Education Semester Total AE 1400 University Foundations**	Hrs 2 3 3 3 3 14 1	Freshman Year - Spring Semester CIS 1600 Business Information Management COMM 1000 Public Speaking (GE) CTE 3060 Technical Writing (GE) NET 1061 Routing and Switching Essentials* General Education Semester Total	Hrs 3 3 3 3 3 15
Sophomore Year - Fall Semester CIS 2605 Programming with Visual C# NET 2060 Scaling Networks* General Education Science with Laboratory General Education Semester Total	Hrs 3 4 6 16	Sophomore Year - Spring Semester CIS 2665 Principles of Data Communications & Local Area Network NET 2061 Connecting Networks* General Education Semester Total	Hrs 3 9 15
Junior Year - Fall Semester CIS 3650 Database Management Systems CIS 3665 Data Communication Technologies* NET 4060 Advanced Network Routing* General Education Free Choice Electives Semester Total	Hrs 3 3 3 3 3 3 15	Junior Year - Spring Semester CIS 4680 Data Resource Management+ CIS 4685 Network Planning, Design and Security*+ NET 3068 Network Security I Free Choice Electives Semester Total	Hrs 3 3 4 6 16
Junior Year - Summer Semester SOT 3022 Internship in Technology Semester Total	Hrs 3 3		
Senior Year - Fall Semester CIS 4665 Data Communication & Distributed Data Processing NET 4062 Advanced Switching* Free Choice Electives Semester Total	Hrs 3 3 8 14	Senior Year - Spring Semester CIS 4610 Special Projects NET 4063 Network Support* ¹⁰ Free Choice Electives Semester Total	Hrs 3 6 12

Systems Engineering Technology Major B.S. Degree - 120 hours

- *This class is only offered during the semester indicated.
- **AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- +This class requires senior standing (90 earned credit hours) for enrollment will need permission of the instructor to enroll.
- 10This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

Systems Engineering Technology Major, Missouri Innovation Campus (MIC), B.S. Degree (43-879)

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Courses listed in the first seven semesters include the course prefix, number, and titles used by the Metropolitan Community Colleges (MCC). The UCM equivalents are listed in parenthesis after the MCC course title. If there is no UCM equivalency, (N/A) is listed. Transfer course articulations may be found on the UCM website at www.ucmo.edu/corequiv/transferSearch.cfm.

 High School Junior Year/MCC - Summer Semester COLL 100 First Year Seminar (N/A) CSIS 110 Technology and Information Mgmt. (BTE 1210) (C MATH 110 Intermediate Algebra (MATH 1101) or MATH 120 College Algebra (MATH 1111) (GE - MATH 120 only) Semester Total 		High School Junior Year/MCC - Fall Semester CHAOS II (STA Course) (CSIS 111 & 151 at MCC) Networking I (STA Course) (CSIS 161 at MCC)+ MATH 120 College Algebra (MATH 1111) or higher++ Semester Total	Hrs 6 3 3 12
High School Junior Year/MCC - Spring Semester CSIS 115 Computer Concepts and Applications (CIS 1600) Networking II (STA Course) (CSIS 152 & 172 at MCC/NET 2060 & 2061 at UCM)^ Semester Total	Hrs 3 6 9	High School Senior Year/MCC - Summer Semester BSAD 120 Organizational Behavior (N/A) CSIS 170 Principles of Information Assurance (N/A) (Non-credit Internship) Semester Total	Hrs 3 3 0 6
High School Senior Year/MCC - Fall Semester CSIS 174 Visualization and Cloud Computing Concepts CSIS 178 Internetworking with TCP/IP ENGL 101 Composition and Reading I (ENGL 1020) (GE) General Education Science with Laboratory (Non-credit Internship) Semester Total	Hrs 4 3 4 0 14	High School Senior Year/MCC - Spring Semester COMM 102 Fund. of Speech (COMM 1000) (GE)+++ CSIS 123 Programming Fundamentals (CS 1100)*** CSIS 143 Database Design and Management (CIS 3650) CSIS 290A Field Competencies and Employment Strat. (N/A ENGL 215 Technical Writing (CTE 3060) (GE) (Non-credit Internship) Semester Total (graduate from high school this semester)	Hrs 3 3 3 3 3 3 3 0 15
MCC/UCM Junior Year - Summer Semester BSAD 127 Management Internship I (N/A) General Education History* (Non-credit Internship) Semester Total (graduate from MCC with A.A.S. degree this semester)	Hrs 3 3 0 6	UCM Junior Year - Fall Semester CIS 3665 Data Communication Technologies** General Education (Non-credit Internship) Semester Total	Hrs 3 3 0 6
UCM Junior Year - Spring Semester CIS 4680 Data Resource Management# CIS 4685 Network Planning, Design and Security**# NET 3068 Network Security I General Education (Non-credit Internship) Semester Total	Hrs 3 4 3 0 13	UCM Senior Year - Summer Semester CIS 4610 Special Projects SOT 3022 Internship in Technology General Education Semester Total	Hrs 3 6 12
UCM Senior Year - Fall Semester CIS 4665 Data Communication & Distributed Data Processir NET 4060 Advanced Network Routing** General Education (Non-credit Internship) Semester Total	Hrs ng 3 3 6 0 12	UCM Senior Year - Spring Semester NET 4062 Advanced Switching** NET 4063 Network Support** ¹⁰ General Education (Non-credit Internship) Semester Total	Hrs 3 3 0 9

Systems Engineering Technology Major, Missouri Innovation Campus (MIC), B.S. Degree (43-879)

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General Information

- This program is offered in cooperation with the Lee's Summit R-7 School District and the Metropolitan Community College (MCC). Students begin the program during their junior year in high school and will earn an AAS degree from MCC-BTC with a major in Engineering Technology: Architecture Emphasis.
- Students must be accepted into this program. Go to www.ucmo.edu/mic or call 660-543-8256 for more information.
- Please note that the credit hours from any course taken at a community college that articulates or substitutes for an upper-level (3000/4000) UCM course will not count towards the upper-level hours needed for graduation. The same rule applies to any 1000/2000 level courses at four-year institutions, even if the course(s) articulates or substitutes for an upper-level (3000/4000) UCM course. Learn more at www.ucmo.edu/registrar/standards/upper.cfm.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA after they earn 45 credit hours but before earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral.

Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

Key to Curriculum Notes on Four Year Guide

- +The hours for IT Essentials will substitute for NET 1060 and 1061 and CIS 2665 which are required in the UCM major.
- ++Consult the UCM Undergraduate Catalog (www.ucmo.edu/academics/catalogs) for a complete listing of appropriate general education math classes.
- +++SPDR 100 and 101, if taken prior to Fall 2014 will also articulate to COMM 1000 at UCM.
- AThe hours for Network Essentials will substitute for NET 2060 and 2061 which are required in the UCM major.
- *Consult both the MCC and UCM catalogs for appropriate general education history choices.
- **This class is only offered the semester indicated.
- ***This course will substitute for CIS 2605 which is required in the UCM major.
- #This class requires senior standing (90 earned credit hours) for enrollment will need permission of the instructor to enroll.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.

Technology Management, B.S. Degree (43-894)

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Freshman Year - Fall Semester COMM 1000 Public Speaking (GE) ENGL 1020 Composition I (GE) MATH 1111 College Algebra (GE) General Education Semester Total	Hrs 3 3 6 15	Freshman Year - Spring Semester CADD 1105 Basic AutoCAD CADD 1110 Fundamentals of Drafting CADD 1170 Introduction to Computer-Aided Drafting General Education Semester Total	Hrs 1 3 2 9 15
Sophomore Year - Fall Semester ACCT 2101 Principles of Financial Accounting CHEM 1103 Introduction to the Sciences: Chemistry (GE) Departmentally Approved Electives Semester Total	Hrs 3 3 6 12	Sophomore Year - Spring Semester ECON 1010 Principles of Macroeconomics (GE) PHYS 1104 Introduction to the Sciences: Physics (GE) Departmentally Approved Electives Semester Total	Hrs 3 4 8 15
Junior Year - Fall Semester ENGT 3520 Engineering Economy SAFE 3070 Safety Leadership Departmentally Approved Electives General Education Managing Information Semester Total	Hrs 3 7 2 15	Junior Year - Spring Semester CTE 3060 Technical Writing (GE) INDM 4260 Organizational Dynamics SOT 4000 Special Projects in Technology Departmentally Approved Electives Semester Total	Hrs 3 3 6 15
Junior-to-Senior Year - Summer Semester SOT 3022 Internship in Technology Semester Total	Hrs 3 3		
Senior Year - Fall Semester INDM 4210 Industrial Management INDM 4250 Project Management ¹⁰ Departmentally Approved Electives Semester Total	Hrs 3 3 9 15	Senior Year - Spring Semester CTE 3116 Creative Thinking for a Better World ENGT 4580 Quality Systems Engineering FAME 3442 Sustainability for Consumer Products (GE) INDM 4015 Legal Aspects of Industry Departmentally Approved Electives Semester Total	Hrs 3 3 3 3 3 3 15

Technology Management, B.S. Degree - 120 hours

- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA after they earn 45 credit hours but before earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

Theatre Major, B.A. Degree (42-364)

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester ENGL 1020 Composition I (GE) THEA 1400 Script Analysis THEA 1500 Acting Modern Language Requirement (GE)* General Education Semester Total AE 1400 University Foundations**	Hrs 3 3 3 3 1 5 1	Freshman Year - Spring Semester ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) THEA 1100 Oral Interpretation (GE) THEA 1600 Stagecraft Modern Language Requirement* General Education Semester Total	Hrs 3 3 3 3 3 15
Sophomore Year - Fall Semester THEA 1510 Stage Movement THEA 2610 Design Fundamentals Modern Language Requirement* General Education Semester Total	Hrs 3 3 6 15	Sophomore Year - Spring Semester THEA 1520 Stage Voice General Education Semester Total	Hrs 3 12 15
Junior Year - Fall Semester THEA 3600 Scene Design, THEA 3610 Costume Design, or THEA 3620 Lighting Design THEA 3700 Directing Minor Coursework Free Choice Elective Semester Total	Hrs 3 6 3 15	Junior Year - Spring Semester Minor Coursework General Education Free Choice Electives Semester Total	Hrs 6 6 3 15
Senior Year - Fall Semester THEA 3630 Studio Theatre I THEA 4400 Literature & History of the Theatre I ¹⁰ Theatre Elective Minor Coursework Free Choice Electives Semester Total	Hrs 1 3 6 2 15	 Senior Year - Spring Semester THEA 4420 Literature & History of the Theatre II or THEA 4440 Literature & History of the Theatre III THEA 4730 Studio Theatre II Minor Coursework Free Choice Electives Semester Total 	Hrs 3 1 6 5 15

Theatre Major, B.A. Degree - 120 hours

- *Refer to the Bachelor's Degree Requirements section for fulfillment options of the BA Modern Language requirements. This plan is based on nine hours of modern language.
- **AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- This plan is based on a 24-hour minor.
- This major does not build in the minimum number (30) of upper-level credit hours required for graduation. Be sure to include upperlevel choices (3000/4000) in your major electives, minor, general education, and/or free choice electives.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA after they earn 45 credit hours but before earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

Theatre Major, B.F.A. Degree (Performance Concentration) (47-366)

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester ENGL 1020 Composition I (GE) THEA 1400 Script Analysis THEA 1500 Acting THEA 1600 Stagecraft General Education Semester Total AE 1400 University Foundations*	Hrs 3 3 3 3 3 15 1	Freshman Year - Spring Semester ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE THEA 1100 Oral Interpretation (GE) THEA 1520 Stage Voice THEA 1610 Stage Makeup General Education Semester Total	Hrs 3 3 3 3 3 3 15
Sophomore Year - Fall Semester THEA 1510 Stage Movement THEA 2610 Design Fundamentals Design/Technology Elective General Education Semester Total	Hrs 3 3 3 6 15	Sophomore Year - Spring Semester DANC 1110 Modern Dance I or 1120 Ballet Dance I DANC 1140 Jazz Dance I THEA 3700 Directing General Education Semester Total	Hrs 1 3 9 14
Junior Year - Fall Semester THEA 3500 Advanced Scene Study THEA 4310 Principles of Theatre Management THEA 4300 Professional Practices THEA 4400 Literature & History of the Theatre I ¹⁰ General Education Semester Total	Hrs 3 1 3 6 16	Junior Year - Spring Semester THEA 4300 Professional Practices THEA 4420 Literature & History of the Theatre II or THEA 4440 Literature & History of the Theatre III THEA 4500 Advanced Acting Design/Technology Elective General Education Free Choice Elective Semester Total	Hrs 1 3 3 3 2 15
Senior Year - Fall Semester THEA 4300 Professional Practices THEA 4510 Period Acting Styles Design/Technology Elective General Education Free Choice Electives Semester Total	Hrs 1 3 3 5 15	Senior Year - Spring Semester THEA 4710 Advanced Directing THEA 4730 Studio Theatre II THEA 4910 Senior Showcase Free Choice Electives Semester Total	Hrs 3 1 1 10 15

Theatre Major, B.F.A. Degree (Performance Concentration) - 120 hours

- * AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA after they earn 45 credit hours but before earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.

Theatre Major, B.F.A. Degree (Design/Technology Concentration) (47-366)

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog (www.ucmo.edu/ academics/catalogs) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

Freshman Year - Fall Semester ENGL 1020 Composition I (GE) THEA 1400 Script Analysis THEA 1500 Acting THEA 1600 Stagecraft General Education Semester Total AE 1400 University Foundations*	Hrs 3 3 3 3 3 15 1	Freshman Year - Spring Semester ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) THEA 1100 Oral Interpretation (GE) THEA 1610 Stage Makeup THEA 2630 Drafting for the Theatre General Education Semester Total	Hrs 3 3 3 3 3 3 15
Sophomore Year - Fall Semester THEA 2610 Design Fundamentals THEA 2620 Costume Technology Performance Elective General Education Semester Total	Hrs 3 3 6 15	Sophomore Year - Spring Semester THEA 3700 Directing Performance Elective General Education Semester Total	Hrs 3 3 9 15
Junior Year - Fall Semester THEA 3610 Costume Design THEA 4310 Principles of Theatre Management THEA 4400 Literature & History of the Theatre I ¹⁰ THEA 4600 Advanced Technical Theatre General Education Semester Total	Hrs 3 3 3 3 3 3 15	Junior Year - Spring Semester THEA 3600 Scene Design THEA 3630 Studio Theatre I THEA 4300 Professional Practices Performance Elective General Education Free Choice Electives Semester Total	Hrs 3 1 3 6 2 16
Senior Year - Fall Semester THEA 4300 Professional Practices THEA 4610 Advanced Lighting and Sound THEA 4620 Period Research THEA 4910 Senior Showcase General Education Free Choice Electives Semester Total	Hrs 1 3 1 3 3 1 1 4	Senior Year - Spring Semester THEA 3620 Lighting Design THEA 4300 Professional Practices THEA 4420 Literature & History of the Theatre II or THEA 4440 Literature & History of the Theatre III Free Choice Electives Semester Total	Hrs 3 1 3 8 15

Theatre Major, B.F.A. Degree (Design/Technology Concentration) - 120 hours

- *AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- ¹⁰This course fulfills Competency 10 Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA after they earn 45 credit hours but before earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, testingservices@ucmo.edu) for more information.