

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

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

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Freshman Year - Fall Semester	Hrs	Freshman Year - Spring Semester	Hrs
CS 1100 Computer Programming I	3	CS 3800 Applications Development with VB.NET	3
ECON 1010 Principles of Macroeconomics (GE)	3	MATH 1152 Calculus & Analytic Geometry II	5
MATH 1300 Basic Statistics (GE)	3	MATH 2410 Discrete Mathematics	3
MATH 1151 Calculus & Analytic Geometry I (GE)	5	Free Choice Electives# (ECON 1011 Microeconomics ^)	3
Semester Total	14	Semester Total	14
AE 1400 Freshman Seminar*	1		

Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
ENGL 1020 Composition I (GE)	3	ENGL 1030 Composition II or CTE 3060 Technical Writing (GE)	3
MATH 2153 Calculus & Analytic Geometry III	3	MATH 4312 Probability Models**	3
MATH 3311 Introduction to Math Statistics**	3	MATH 4501 Actuarial Exam Review Problem Set I**	1
General Education	6	MATH 4510 Mathematics of Finance***	3
Semester Total	15	General Education	6
		Semester Totals	16

Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
ECON 3010 Intermediate Macroeconomics**	3	FIN 3861 Financial Management I	3
FIN 4817 Managing Financial Derivatives**	3	FIN 4803 Principles of Insurance	3
MATH 4321 Applied Statistics I**	3	MATH 4322 Applied Statistics II**	3
MATH 4511 Actuarial Exam Review Problem Set II**	1	Major Elective## (ECON 3030 Intermediate Microeconomics ^)	3
General Education	6	Free Choice Elective#	3
Semester Total	16	Semester Total	15

Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
MATH 4520 Life Contingencies I**	3	MATH 4530 Statistical Modeling**	3
Major Elective##	3	MATH 4645 Senior Projects in Actuarial Science & Statistics	3
General Education	9	Major Elective##	3
Semester Total	15	Free Choice Electives#	6
		Semester Total	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.
- 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)

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Freshman Year - Fall Semester	Hrs	Freshman Year - Spring Semester	Hrs
CS 1100 Computer Programming I	3	CS 1110 Computer Programming II	3
ENGL 1020 Composition I (GE)	3	ENGL 1030 Composition II or CTE 3060 Technical Writing (GE)	3
MATH 1151 Calculus & Analytic Geometry I (GE)	5	MATH 1152 Calculus & Analytic Geometry II	5
MATH 1300 Basic Statistics (GE)	3	MATH 2410 Discrete Mathematics	3
Semester Total	14	General Education	3
AE 1400 Freshman Seminar*	1	Semester Total	17
Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
MATH 2153 Calculus & Analytic Geometry III	3	MATH 3151 Differential Equations**	3
MATH 3311 Introduction to Math Statistics**	3	MATH 4312 Probability Models**	3
MATH 3710 Linear Algebra	3	General Education	9
General Education	6	Semester Totals	15
Semester Total	15		
Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
MATH 4321 Applied Statistics I**	3	MATH 4322 Applied Statistics II**	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
MATH 4323 Statistical Aspects of Experimental Design**	3	MATH 4530 Statistical Modeling**	3
MATH 4331 SAS Programming for Statistical Analysis	3	MATH 4645 Senior Projects in Actuarial Science & Statistics Major Elective#	3
Major Electives#	6	Free Choice Electives##	4-5
Free Choice Electives##	3	Semester Total	2-3
Semester Total	15		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.
- 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)

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Freshman Year - Fall Semester	Hrs	Freshman Year - Spring Semester	Hrs
AGRI 1100 Introduction to Agriculture	1	AGRI 1600 Introduction to Horticulture Science (Lab)	4
AGRI 1420 Animal Husbandry	3	AGRI 2425 Livestock Evaluation (Lab)	3
COMM 1000 Public Speaking (GE)	3	CHEM 1104 Introduction to the Sciences: Chemistry (Lab) (GE)	4
ECON 1010 Principles of Macroeconomics (GE)	3	ENGL 1030 Composition II or CTE 3060 Technical Writing (GE)	3
ENGL 1020 Composition I (GE)	3	MATH 1111 College Algebra (GE)	3
LIS 1600 University Library and Research Skills (GE)	2	Semester Total	17
Semester Total	15		
Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
AGRI 2330 Introduction to Soil Science (Lab)	3	ACCT 2101 Principles of Financial Accounting or	
General Education	9	ACCT 2100 Survey of Accounting	3
Semester Total	12	AGRI 2130 Global Agriculture (GE)	3
		AGRI 1310 Agronomy I: Row Crops (fall only) or	
		AGRI 2315 Agronomy II: Forages (spring only)	2
		ECON 1011 Principles of Microeconomics	3
		General Education	6
		Semester Total	17
Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
AGRI 3110 Agri-Business Management	3	AGRI 4140 Agricultural Policy	3
AGRI 3140 Agricultural Analysis and Statistics	3	AGRI 4300 Soil Fertility & Fertilizers	3
AGRI 3410 Animal Breeding or AGRI 4310 Plant Breeding & Genetics	3	General Education	3
MGT 3325 Business Communications	3	Free Choice Electives	6
MKT 3430 Professional Sales	3	Semester Total	15
Semester Total	12		
Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
AGRI 3120 Distrib. and Marketing of Agriculture Products	3	AGRI 4101 Agricultural Capstone Experience	3
AGRI 3610 Agriculture Pest Management	3	AGRI 4110 Agricultural Futures Trading	3
AGRI 3810 Internship in Agriculture	3	AGRI 4120 International Agriculture	3
BLAW 2720 Legal Environment of Business	3	AGRI 4150 Natural Resources Economics	3
Free Choice Electives	3	Free Choice Electives	2
Semester Total	15	Semester Total	14

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.
- 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 Sciences, B.S. Degree (43-277)

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

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

- Your four-year guide will vary depending on the year (odd or even) and semester that you begin coursework. See your department chair for current curriculum information.
- To satisfy the General Education Assessment (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)

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Freshman Year - Fall Semester	Hrs	Freshman Year - Spring Semester	Hrs
AGRI 1100 Introduction to Agriculture	1	AGRI 1600 Introduction to Horticulture Science (Lab)	4
AGRI 1420 Animal Husbandry	3	ECON 1010 Principles of Macroeconomics (GE)	3
CHEM 1104 Introduction to the Sciences: Chemistry (Lab) (GE)	4	ENGL 1030 Composition II or CTE 3060 Technical Writing (GE)	3
COMM 1000 Public Speaking (GE)	3	MATH 1111 College Algebra (GE)	3
ENGL 1020 Composition I (GE)	3	General Education	3
Semester Total	14	Semester Total	16
Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
AGRI 1310 Agronomy I: Row Crops (fall only) or AGRI 2315 Agronomy II: Forages (spring only)	2	AGRI 2130 Global Agriculture (GE)	3
AGRI 2330 Introduction to Soil Science (Lab)	3	AGRI 2425 Livestock Evaluation (Lab)	3
ECON 1011 Principles of Microeconomics	3	LIS 1600 University Library and Research Skills (GE)	2
General Education	6	General Education	6
Semester Total	14	Semester Total	14
Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
AGRI 3110 Agri-Business Management	3	AGRI 2331 Soils	3
AGRI 3610 Agriculture Pest Management (Lab)	3	AGRI 3210 Soil & Water Management	3
GEOG 4220 Geographic Information Systems I	3	AGRI 4300 Soil Fertility & Fertilizers	3
General Education	3	Free Choice Electives	7
Free Choice Electives	3	Semester Total	16
Semester Total	15		
Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
AGRI 3120 Distribution and Marketing of Agriculture Products	3	AGRI 3320 Field Crop Management	3
AGRI 3410 Animal Breeding or AGRI 4310 Plant Breeding & Genetics	3	AGRI 4101 Agricultural Capstone Experience	3
AGRI 3810 Internship in Agriculture	3	AGRI 4110 Agricultural Futures Trading	3
AGRI 4340 Agricultural Sprays and Chemicals (Lab)	3	AGRI 4120 International Agriculture	3
Free Choice Electives	4	Free Choice Electives	3
Semester Total	16	Semester Total	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.
- 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	Hrs	Freshman Year - Spring Semester	Hrs
AGRI 1100 Introduction to Agriculture	1	AGRI 1600 Introduction to Horticulture Science (Lab)	4
AGRI 1420 Animal Husbandry	3	COMM 1000 Public Speaking (GE)	3
CHEM 1104 Introduction to the Sciences: Chemistry (Lab) (GE)	4	ECON 1010 Principles of Macroeconomics (GE)	3
ENGL 1020 Composition I (GE)	3	ENGL 1030 Composition II or CTE 3060 Technical Writing (GE)	3
LIS 1600 University Library and Research Skills (GE)	2	MATH 1111 College Algebra (GE)	3
General Education	3	Semester Total	16
Semester Total	16		
Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
AGRI 2330 Introduction to Soil Science (Lab)	3	AGRI 1310 Agronomy I: Row Crops (fall only) or AGRI 2315 Agronomy II: Forages (spring only)	2
ECON 1011 Principles of Microeconomics	3	AGRI 2130 Global Agriculture (GE)	3
General Education	9	AGRI 2425 Livestock Evaluation (Lab)	3
Semester Total	15	General Education	6
		Semester Total	14
Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
AGRI 3110 Agri-Business Management	3	AGRI 3610 Agricultural Pest Management (Lab)	3
AGRI 4600 Horticultural Plants I: Woody (Lab)	3	AGRI 3620 Residential Landscape Design (Lab)	3
AGRI 4610 Turfgrass Science (Lab)	3	AGRI 4300 Soil Fertility & Fertilizers	3
Free Choice Electives	6	AGRI 4605 Horticultural Plants II: Herbaceous	3
Semester Total	15	Free Choice Electives	3
		Semester Total	15
Between Junior and Senior Year - Summer	Hrs		
AGRI 3810 Internship in Agriculture	3		
Semester Total	3		
Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
AGRI 3120 Distribution and Marketing of Agriculture Products	3	AGRI 3640 Horticultural Propagation Materials (Lab)	3
AGRI 3410 Animal Breeding or AGRI 4310 Plant Breeding & Genetics	3	AGRI 4000 Special Projects in Agriculture	3
AGRI 4340 Agricultural Sprays and Chemicals	3	AGRI 4101 Agricultural Capstone Experience	3
Free Choice Electives	5	Free Choice Electives	3
Semester Total	14	Semester Total	12

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.
- 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)

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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	ENGL 1030 Composition II or CTE 3060 Technical Writing (GE)	3
ENGL 1020 Composition I (GE)	3	HIST 1350 or 1351 History of the United States (GE)	3
General Education	3	General Education MATH	3
Semester Total	15	Semester Total	15
AE 1400 Freshman Seminar*	1		
Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
ART 1815 Art History Survey I (fall)	3	ART 1825 Art History Survey II	3
ART 2412 Ceramics I	3	ART 2420 Sculpture I	3
EDFL 2100 Foundations of Education	2	ART 2710 Printmaking I	3
FLDX 2150 Introductory Field Experience	1	General Education Science w/lab	4
EDFL 2240 Educational Psychology	3	General Education	5
EDSP 2100 Education of the Exceptional Child	2	Semester Total	18
POLS 1510 American Government (GE)	3	<i>(Successfully complete MoGEA exam by end of this semester)</i>	
Semester Total	17		
Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
ART 2511 Painting I	3	ART 3209 Figure Construction	3
ART 3314 Fibers	3	ART 3915 Methods of Teaching Art I: Elementary	3
PHOT 1203 Introduction to Photography	3	ART 4850 20th Century Art & Architecture (fall) or	
General Education	9	ART 4860 Contemporary Art & Design (spring)	3
Semester Total	18	EDFL 4210 The Teaching of Reading in the Secondary School	2
		PSY 4230 Psychology of Adolescence (GE)	3
		Upper Level Studio Concentration	3
		Semester Total	17
Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester**	Hrs
ART 3920 Methods of Teaching Art II: Secondary (fall)	3	ART 4920 Methods of Teaching Art III: Seminar for Student Teaching	3
ART 4221 Art Theory and Criticism	3	FLDX 4495 Student Teaching Elementary I	5
EDFL 3500 Secondary Teaching & Behavior Management	3	FLDX 4468 Student Teaching Secondary II	4
FLDX 3550 Practicum in Secondary Instruction	1	Semester Total	12
EDFL 4300 Educational Measures & Evaluation	2		
Upper Level Studio Concentration	3		
Semester Total	15		

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

- *AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective, however, this program does not require free choice electives.
- **The courses listed for this semester constitute the professional education (student teaching) block. The student should not take any other courses during this semester.
- The Missouri General Education Assessment (MoGEA) is an exam required of all Teacher Education students. Students must pass all five 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.
- 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)

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

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

- AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- Admission to the Athletic Training major is a competitive process. 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 2014 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*	Hrs	3
ENGL 1020 Composition I (GE)		3
ET 1010 Applied Electricity		4
MATH 1111 College Algebra (GE)		3
Semester Total	Hrs	13

Freshman Year - Spring Semester

ATM 2124 Automotive Braking Systems*	Hrs	4
CIS 1600 Business Information Management (GE)		3
ECON 1010 Principles of Macroeconomics (GE)		3
MATH 1131 Applied Calculus or MATH 1300 Basic Statistics		3
General Education		3
Semester Total	Hrs	16

Sophomore Year - Fall Semester

ATM 2110 Engine Theory & Maintenance*	Hrs	4
ATM 2130 Automotive Electrical Systems*		4
ET 2060 Microprocessors: Theory and Applications		4
PHYS 1104 Introduction to the Sciences: Physics (GE)		4
Semester Total	Hrs	16

Sophomore Year - Spring Semester

ACCT 2100 Survey of Accounting or ACCT 2101 Principles of Financial Accounting**	Hrs	3
ATM 2132 Fuel Systems & Emission Controls*		4
ATM 2150 Mobile HVAC*		3
ATM 3110 Automotive Engine Overhaul		4
CHEM 1103 Introduction to the Sciences: Chemistry (GE)		3
Semester Total	Hrs	17

Junior Year - Fall Semester

ATM 3120 Steering and Suspension Systems*	Hrs	4
ATM 3130 Computerized Engine Diagnostics*		4
COMM 1000 Public Speaking (GE)		3
INDM 4210 Industrial Management or MGT 3315 Management of Organizations**		3
General Education		3
Semester Total	Hrs	17

Junior Year - Spring Semester

ATM 3150 Diesel Technology*	Hrs	4
BLAW 2720 Legal Environment of Business		3
CTE 3060 Technical Writing (GE)		3
General Education		6
Semester Total	Hrs	16

Summer - Between Junior & Senior Year

SOT 3022 Internship in Technology***	Hrs	3
Semester Total	Hrs	3

Senior Year - Fall Semester

ATM 3134 Advanced Powerplant Systems*	Hrs	3
ATM 4032 Hydraulics & Pneumatics		3
MKT 3405 Marketing Policy** or HRM 3920 Human Resource Management		3
General Education		3
Semester Total	Hrs	12

Senior Year - Spring Semester

ATM 3140 Transmissions & Drivelines*	Hrs	4
ATM 4112 ATM Capstone Experience*		3
ATM 4134 Advanced Vehicle Systems*		2
COMM 3340 Intercultural Communication (GE)		3
Semester Total	Hrs	12

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

- *This class is only offered during the semester indicated.
- **By selecting ACCT 2101, MGT 3315, and MKT 3405 in the major students can complete a minor in Business Administration.
- ***SOT 3022 Internship (3 hours) should be done during the summer between junior/senior year.
- 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 2014 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
ATM 1010 Contemporary Power Systems*		3	ATM 2124 Automotive Braking Systems*		4
CIS 1600 Business Information Management (GE)		3	CADD 1105 Basic AutoCAD		1
ENGL 1020 Composition I (GE)		3	CADD 1110 Fundamentals of Drafting		3
ET 1010 Applied Electricity		4	COMM 1000 Public Speaking (GE)		3
MATH 1111 College Algebra (GE)		3	MATH 1131 Applied Calculus or MATH 1300 Basic Statistics		3
Semester Total		16	Semester Total		14

Sophomore Year - Fall Semester		Hrs	Sophomore Year - Spring Semester		Hrs
ATM 2110 Engine Theory & Maintenance*		4	ATM 2132 Fuel Systems & Emission Controls*		4
ATM 2130 Automotive Electrical Systems*		4	CADD 1170 Introduction to Computer-Aided Drafting		2
ECON 1010 Principles of Macroeconomics (GE)		3	CHEM 1103 Introduction to the Sciences: Chemistry (GE)		3
PHYS 1104 Introduction to the Sciences: Physics (GE)		4	CTE 3060 Technical Writing (GE)		3
Semester Total		15	General Education		3
			Semester Total		15

Junior Year - Fall Semester		Hrs	Junior Year - Spring Semester		Hrs
ATM 3120 Steering & Suspension Systems*		4	ACCT 2100 Survey of Accounting or ACCT 2101 Principles of Financial Accounting**	3	
ATM 3130 Computerized Engine Diagnostics*		4	ATM 3150 Diesel Technology*		4
ET 2060 Microprocessors: Theory and Applications		4	BLAW 2720 Legal Environment of Business		3
General Education		3	General Education		6
Semester Total		15	Semester Total		16

Summer - Between Junior & Senior Year	Hrs
SOT 3022 Internship in Technology***	3
Semester Total	3

Senior Year - Fall Semester		Hrs	Senior Year - Spring Semester		Hrs
ATM 3134 Advanced Powerplant Systems*		3	ATM 4112 ATM Capstone Experience*		3
ATM 4032 Hydraulics & Pneumatics		3	ATM 4134 Advanced Vehicle Systems*		2
INDM 4210 Industrial Management or MGT 3315 Management of Organizations**		3	COMM 3340 Intercultural Communication (GE)		3
General Education		3	HRM 3920 Human Resource Management or MKT 3405 Marketing Policy**		3
Semester Total		12	Major Area 2 Elective#		3-4
			Semester Total		14-15

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.
- **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 2014 Undergraduate Catalog for acceptable courses for Major Option Area 2 Electives. Three to four hours are required.
- 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 3 Service Management), B.S. Degree (43-03838)

This guide is valid for the 2014 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
ATM 1010 Contemporary Power Systems*	3	ATM 2124 Automotive Braking Systems*	4
CIS 1600 Business Information Management (GE)	3	COMM 1000 Public Speaking (GE)	3
ENGL 1020 Composition I (GE)	3	ECON 1010 Principles of Macroeconomics (GE)	3
ET 1010 Applied Electricity	4	MATH 1131 Applied Calculus or MATH 1300 Basic Statistics	3
MATH 1111 College Algebra (GE)	3	General Education	3
Semester Total	16	Semester Total	16

Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
ACCT 2100 Survey of Accounting or ACCT 2101 Principles of Financial Accounting**	3	ATM 2132 Fuel Systems & Emission Controls*	4
ATM 2110 Engine Theory*	4	BLAW 2720 Legal Environment of Business	3
ATM 2130 Automotive Electrical Systems*	4	CHEM 1103 Introduction to the Sciences: Chemistry (GE)	3
PHYS 1104 Introduction to the Sciences: Physics (GE)	4	ET 2060 Microprocessors: Theory and Applications	4
Semester Total	15	Semester Total	14

Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
ATM 3120 Steering & Suspension Systems*	4	ATM 3150 Diesel Technology*	4
ATM 3130 Computerized Engine Diagnostics*	4	COMM 3340 Intercultural Communication (GE)	3
CTE 3060 Technical Writing (GE)	3	INDM 4210 Industrial Management or MGT 3315 Management of Organizations**	3
General Education	3	Major Option Area 3 Elective#	3
Semester Total	14	General Education	3
		Semester Total	16

Summer - Between Junior & Senior Year	Hrs
SOT 3022 Internship in Technology***	3
Semester Total	3

Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
ATM 3134 Advanced Powerplant Systems*	3	ATM 4032 Hydraulics & Pneumatics	3
MKT 3405 Marketing Policy** or HRM 3920 Human Resource Management	3	ATM 4112 ATM Capstone Experience*	3
Major Option Area 3 Elective#	3	ATM 4134 Advanced Vehicle Systems*	2
General Education	3	Major Option Area 3 Elective#	3
Semester Total	12	General Education	3
		Semester Total	14

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

- *This class is only offered the semester indicated.
- **By selecting ACCT 2101, MGT 3315, and MKT 3405 in the major students can complete a minor in Business Administration.
- ***SOT 3022 Internship (3.0 hrs) should be completed in the summer of the Junior/Senior year.
- #See the 2014 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 2014 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	Hrs	Junior Year - Spring Semester	Hrs
AVIA 3710 Professional Ethics in Aviation	2	AVIA 4090 Aviation Law	3
AVIA 4042 Aviation Maintenance Management or AVIA 4040 Aviation Management	3	ECON 1010 Principles of Macroeconomics (GE)	3
ENGL 1030 Composition II (GE)	3	MATH 1131 Applied Calculus (GE)	3
General Education*	6	MGT 3315 Management of Organizations or NDM 4210 Industrial Management	3
Semester Total	14	Major Area Elective**	3
		Semester Total	15

Senior Year – Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
AVIA 4500 Aviation Safety	3	AVIA 4420 Air Transportation or AVIA 4430 Corporate Aviations	3
MGT 3325 Business Communications	3	AVIA 4999 Integrative Studies Capstone	3
GEOG 3201 Cultural Landscape	3	Major Area Elective**	6-7
Major Area Elective**	3	General Education*	3
General Education*	3	Semester Total	15-16
Semester Total	15		

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 2014 Undergraduate Catalog for the required courses in each area.
- The above suggested plan contains exactly 30 upper-level hours (3000/4000). 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 2014 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
AVIA 1020 Aeronautics	2	ACCT 2101 Principles of Financial Accounting	3
AVIA 1310 FAA Private Requirement	3	FLYA 1321 Private Flight B	1
FLYA 1320 Private Flight A	1	ECON 1010 Principles of Macroeconomics (GE)	3
ENGL 1020 Composition I (GE)	3	ENGL 1030 Composition II (GE)	3
General Education	5	MATH 1131 Applied Calculus (GE)	3
Semester Total	14	General Education	3
AE 1400 Freshman Seminar**	1	Semester Total	16

Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
FLYA 3313 Instrument Flight A	1	AVIA 4350 Aviation Weather	3
FLYA 3314 Instrument Flight B	1	COMM 2620 Introduction to Public Relations	3
AVIA 3325 FAA Instrument Requirement	3	PHYS 1104 Introduction to the Sciences: Physics (GE)	4
BLAW 2720 Legal Environment of Business	3	General Education	6
General Education	6	Semester Total	16
Semester Total	14		

Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
AVIA 4010 Aerodynamics	3	AVIA 3710 Professional Ethics in Aviation	2
MGT 3315 Management of Organizations or INDM 4210 Industrial Management*	3	AVIA 4310 Air Traffic Control	2
MKT 3405 Marketing Policy	3	FIN 2801 Business Statistics	3
Major Option 1 Electives*	3	HRM 3920 Human Resource Management	3
General Education	3	MGT 3325 Business Communications	3
Semester Total	15	General Education	3
		Semester Total	16

Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
AVIA 4040 Aviation Management	3	AVIA 4380 Flight Operations Management	3
AVIA 4090 Aviation Law	3	AVIA 4999 Integrative Studies Capstone	3
AVIA 4420 Air Transportation	3	FIN 3850 Principles of Finance	3
AVIA 4430 Corporate Aviation Management	3	Major Option 1 Electives*	2
AVIA 4500 Aviation Safety	3	Free Choice Elective	3
Semester Total	15	Semester Total	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 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.
- 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 2: Airport Management), B.S. Degree (43-02570)

This guide is valid for the 2014 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
AVIA 1020 Aeronautics	2	ENGL 1030 Composition II (GE)	3
ENGL 1020 Composition I (GE)	3	CADD 1105 Basic AutoCAD	1
MATH 1131 Applied Calculus (GE)	3	CADD 1110 Fundamentals of Drafting	3
General Education	6	CADD 1170 Introduction to Computer-Aided Drafting	2
Semester Total	14	PHYS 1104 Introduction to the Sciences: Physics (GE)	4
AE 1400 Freshman Seminar*	1	General Education	3
		Semester Total	16
Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
ACCT 2101 Principles of Financial Accounting	3	COMM 2620 Public Relations	3
ATM 3010 Transportation Systems	3	FIN 2801 Business Statistics I	3
BLAW 2720 Legal Environment of Business	3	General Education	9
General Education	5	Semester Total	15
Semester Total	14		
Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
ECON 1010 Principles of Macroeconomics (GE)	3	AVIA 3620 Principles of Aviation Accident Causation or	
MGT 3315 Management of Organizations or	3	SAFE 3000 Principles of Accident Causation & Prevention	3
INDM 4210 Industrial Management**	3	AVIA 3710 Professional Ethics in Aviation	2
MKT 3405 Marketing Policy	3	AVIA 4310 Air Traffic Control	2
Semester Total	12	FIN 3850 Principles of Finance	3
		HRM 3920 Human Resource Management	3
		MGT 3325 Business Communications	3
		Semester Total	16
Summer - Between Junior/Senior Year	Hrs		
AVIA 3022 Aviation Internship	3		
Semester Total	3		
Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
AVIA 4010 Aerodynamics	3	AVIA 4045 Airport Management	3
AVIA 4040 Aviation Management	3	AVIA 4090 Aviation Law	3
AVIA 4430 Corporate Aviation Management	3	AVIA 4420 Air Transportation	3
AVIA 4500 Aviation Safety	3	AVIA 4999 Integrative Studies Capstone	3
Free Choice Elective	3	Major Option 2 Electives	3
Semester Total	15	Semester Total	15

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

- *AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective, however this major does not require any free choice electives.
- **Students are encouraged to consider adding a Business Administration minor. If interested in the minor option, students should take MGT 3315 instead of INDM 4210. In addition, CIS 1600 would be needed in general education to complete the minor.
- 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.

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

This guide is valid for the 2014 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
CHEM 1131 General Chemistry I (GE)	5	BIOL 1110 Principles of Biology	3
ENGL 1020 Composition I (GE)	3	CHEM 1132 General Chemistry II	5
MATH 1151 Calculus & Analytical Geometry I (GE)	5	ENGL 1030 Composition II or CTE 3060 Technical Writing (GE)	3
General Education Managing Information	2-3	General Education	3
Semester Total	15-16	Semester Total	14
AE 1400 Freshman Seminar*	1		

Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
BIOL 2512 Cell Biology	3	CHEM 3212 Quantitative Analysis	3
CHEM 3341 Organic Chemistry I	4	CHEM 3342 Organic Chemistry II	4
PHYS 1101 (GE) or PHYS 2121 (GE) or PHYS 2123/1123	4-5	PHYS 1102 or PHYS 2122 or PHYS 2124/1124	4-5
General Education	3	General Education	3
Semester Total	14-15	Semester Total	14-15

Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
BIOL 3511 Genetics	4	BIOL 4514 Molecular Biology	3
CHEM 4531 Physical Chemistry: Thermodynamics & Kinetics**	4	BIOL 4515 Molecular Technology Laboratory	2
General Education	6	CHEM 3920 Communication Skills in Chemistry**	2
Semester Total	14	BIOL/CHEM Major Electives#	2-4
		General Education	6
		Semester Total	15-17

Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
CHEM 3421 Intermediate Biochemistry	3	CHEM 4421 Advanced Biochemistry	3
BIOL/CHEM Major Electives#	2-4	CHEM 4431 Biochemistry Laboratory	2
General Education	3	Free Choice Electives***	10
Free Choice Electives***	7	Semester Total	15
Semester Total	15-17		

Biochemistry Major, B.S. Degree - 120 hours

- *AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- **Upper level chemistry courses offered variably check department for actual offerings.
- ***BIOL 1111/1112 should be taken as free choice electives if students are pre-medical, pre-dental, or pre-pharmacy students. 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.
- #Six hours of major electives are required. Three of the six hours must be CHEM. See the 2014 Undergraduate Catalog for a listing of appropriate Major 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: General Biology), B.S. Degree (43-01380)

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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 Technical Writing (GE)	3	General Education	6
General Education	3	Semester Total	14
Semester Total	15		

Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
BIOL 3511 Genetics	4	BIOL 2512 Cell Biology	3
BIOL 3712 Field Natural History	4	BIOL 4013 Introductory Experimental Design & Analysis	3
General Education	3	BIOL 4102 Evolution	3
Free Choice Electives	5	Free Choice Electives	6
Semester Total	16	Semester Total	15

Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
BIOL 3431 Animal Physiology (fall only)*	0-4*	BIOL 3611 Microbiology	4
Free Choice Electives	10-14	BIOL 4001 Ecology Senior Seminar or BIOL 4002 Life Science Senior Seminar	1
Semester Total	14	BIOL 4411 Plant Physiology (spring only)*	0-4*
		BIOL 4222 The Biological Perspective	3
		Free Choice Electives	3-7
		Semester Total	15

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

- *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.
- 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 2014 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	CHEM 1131 General Chemistry I (GE)	5
General Education	11	ENGL 1020 Composition I (GE)	3
Semester Total	15	General Education	3
		Semester Total	15
Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
BIOL 1112 Animal Biology	4	BIOL 2020 General Ecology	3
BIOL 3711 Plant Identification	4	BIOL Major Area Electives**	4
ENGL 1030 Composition II or CTE 3060 Technical Writing* (GE)	3	CHEM 1132 General Chemistry II	5
General Education	3	General Education	3
Semester Total	14	Semester Total	15
Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
BIOL 4709 Plant Ecology	4	BIOL 4013 Introductory Experimental Design & Analysis	3
General Education	12	BIOL 4711 Animal Ecology	4
Semester Total	16	Free Choice Electives	9
		Semester Total	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	3
Semester Total	14	Free Choice Electives	8
		Semester Total	15

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

- *See the 2014 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 2014 Undergraduate Catalog for list of appropriate Biology major area electives (BIOL choices).
- This major does not build in the minimum number (30) of upper-level credit hours required for graduation. Be sure to include upper-level choices (3000/4000) in your major electives, general education, and/or free choice electives.
- To satisfy the General Education Assessment (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 2014 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	BIOL 1112 Animal Biology	4
General Education	12	ENGL 1020 Composition I (GE)	3
Semester Total	16	General Education	3
		Semester Total	14

Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
BIOL 2020 General Ecology	3	Physical Science Major Area Elective*	5
ENGL 1030 Composition II or CTE 3060 Technical Writing (GE)	3	Wildlife Management & Conservation Major Area Elective*	3
Physical Science Major Area Elective*	4	General Education	6
General Education	6	Semester Total	14
Semester Total	16		

Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
BIOL 3711 Plant Identification	4	BIOL 4013 Introductory Experimental Design & Analysis or	
Wildlife Management & Conservation Major Area Elective*	3	MATH 1300 Basic Statistics**	3
General Education or Free Choice Electives**	9	BIOL 4102 Evolution or BIOL 2510 Basic Genetics** +	3
Semester Total	16	Free Choice Electives	9
		Semester Total	15

Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
Wildlife & Habitat Biology Major Area Elective*	4	BIOL 4001 Ecology Senior Seminar	1
Free Choice Elective	11	BIOL 4222 The Biological Perspective	3
Semester Total	15	Wildlife & Habitat Biology Major Area Elective*	4
		Free Choice Electives	6
		Semester Total	14

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

- *See the 2014 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: MATH 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.
- 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, Plant Biology Emphasis), B.S. Degree (43-04380)

This guide is valid for the 2014 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 2020 General Ecology	3	BIOL 2512 Cell Biology	3
BIOL 3711 Plant Identification	4	CHEM 1132 General Chemistry II	5
CHEM 1131 General Chemistry I (GE)	5	General Education	6
ENGL 1030 Composition II or CTE 3060 Technical Writing (GE)	3	Semester Total	14
Semester Total	15		
Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
BIOL 3511 Genetics	4	BIOL 4102 Evolution	3
PHYS 1101 College Physics I (GE)	4	Major Area Electives*	6-8
General Education	3	Free Choice Electives**	6
Free Choice Electives**	3	Semester Total	15-17
Semester Total	14		
Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
BIOL 4709 Plant Ecology	4	BIOL 4001 Ecology Senior Seminar or BIOL 4002 Life Science Senior Seminar	1
Free Choice Electives***	10-12	BIOL 4411 Plant Physiology	4
Semester Total	14-16	BIOL 4222 The Biological Perspective	3
		Free Choice Electives**	7
		Semester Total	15

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

- *See the 2014 Undergraduate Catalog for list of appropriate major area electives for the Plant Biology Emphasis.
- **The number of free choice electives required will depend on selections made in the major and general education.
- This major does not build in the minimum number (30) of upper-level credit hours required for graduation. Be sure to include upper-level choices (3000/4000) in your major electives, general education, and/or free choice electives.
- To satisfy the General Education Assessment (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 2014 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 1112 Animal Biology	4
BIOL 1110 Principles of Biology	3	CHEM 1131 General Chemistry I (GE)	5
General Education	11	ENGL 1020 Composition I (GE)	3
Semester Total	15	General Education	3
		Semester Total	15
Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
BIOL 2020 General Ecology	3	BIOL 2512 Cell Biology	3
CHEM 1132 General Chemistry II	5	Major Area Elective*	2-4
ENGL 1030 Composition II or CTE 3060 Technical Writing (GE)	3	General Education	9
General Education	3	Semester Total	14-16
Semester Total	14		
Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
BIOL 3511 Genetics	4	BIOL 3211 Comparative Anatomy	4
PHYS 1101 College Physics I (GE);	4	BIOL 4102 Evolution	3
Major Area Electives*	2-4	Free Choice Electives**	9
General Education	3	Semester Total	16
Semester Total	13-15		
Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
BIOL 3431 Animal Physiology	4	BIOL 4001 Ecology Senior Seminar or BIOL 4002 Life Science Senior Seminar	1
Free Choice Electives**	12	BIOL 4711 Animal Ecology	4
Semester Total	16	BIOL 4222 The Biological Perspective	3
		Free Choice Electives**	5-7
		Semester Total	13-15

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

- *See the 2014 Undergraduate Catalog for list of appropriate major area electives.
- **The number of free choice electives required will depend on selections made in the major and general education.
- This major does not build in the minimum number (30) of upper-level credit hours required for graduation. Be sure to include upper-level choices (3000/4000) in your major electives, general education, and/or free choice electives.
- To satisfy the General Education Assessment (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 2014 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	Hrs	1
BIOL 1110 Principles of Biology		3
CHEM 1131 General Chemistry I (GE)*		5
General Education		6
Semester Total	Hrs	15

Freshman Year - Spring Semester

BIOL 1111 Plant Biology	Hrs	4
CHEM 1132 General Chemistry II		5
ENGL 1020 Composition I (GE)		3
General Education		3
Semester Total	Hrs	15

Sophomore Year - Fall Semester

BIOL 1112 Animal Biology	Hrs	4
BIOL 2512 Cell Biology		3
ENGL 1030 Composition II or CTE 3060 Technical Writing (GE)		3
General Education		6
Semester Total	Hrs	16

Sophomore Year - Spring Semester

BIOL 3611 Microbiology	Hrs	4
General Education		11
Semester Total	Hrs	15

Junior Year - Fall Semester

BIOL 3511 Genetics	Hrs	4
General Education		6
Free Choice Electives**		5
Semester Total	Hrs	15

Junior Year - Spring Semester

BIOL 4514 Molecular Biology	Hrs	3
BIOL 4515 Molecular Technology Lab		2
Major Area Electives***		4
Free Choice Electives**		6
Semester Total	Hrs	15

Senior Year - Fall Semester

BIOL 3431 Animal Physiology (fall only)#	Hrs	0-4#
Major Area Electives***		3-4
Free Choice Electives**		7-12
Semester Total	Hrs	15

Senior Year - Spring Semester

BIOL 4002 Life Science Senior Seminar	Hrs	1
BIOL 4411 Plant Physiology (spring only)#		0-4#
BIOL 4222 The Biological Perspective		3
Free Choice Electives**		6-10
Semester Total	Hrs	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 2014 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.
- #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.
- 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 6: Pre-Med, Pre-Dental, Pre-Vet), B.S. Degree (43-06380)

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Freshman Year - Fall Semester	Hrs	Freshman Year - Spring Semester	Hrs
BIOL 1000 The Discipline of Biology and Earth Science	1	BIOL 1112 Animal Biology	4
BIOL 1110 Principles of Biology	3	CHEM 1132 General Chemistry II	5
CHEM 1131 General Chemistry I (GE)*	5	ENGL 1020 Composition I (GE)	3
General Education	6	General Education	3
Semester Total	15	Semester Total	15

Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
BIOL 2512 Cell Biology	3	CHEM 3342 Organic Chemistry II	4
BIOL 3511 Genetics	4	PHYS 1101 College Physics I (GE)	4
CHEM 3341 Organic Chemistry I	4	General Education	8
ENGL 1030 Composition II or CTE 3060 Technical Writing (GE)	3	Semester Total	16
Semester Total	14		

Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
BIOL 3611 Microbiology	4	BIOL 3211 Comparative Anatomy or BIOL 3401 Human Anatomy	3-4
General Education	6	Major Area Electives**	4
Free Choice Electives	5	General Education	6
Semester Total	15	Free Choice Electives	2
		Semester Total	15-16

Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
BIOL 3431 Animal Physiology or BIOL 3402 Human Physiology	4-5	BIOL 4002 Life Science Senior Seminar	1
Major Area Electives**	4	BIOL 4222 The Biological Perspective	3
Free Choice Electives	7	Free Choice Electives	10
Semester Total	15-16	Semester Total	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.
- **Eight hours of major electives are required. See the 2014 Undergraduate Catalog for list of appropriate major area electives. CHEM 3421 or PHYS 1102 are strongly recommended for admission into professional programs.
- 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 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 7: Conservation Enforcement), B.S. Degree (43-07380)

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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	CJ 1000 Introduction to Criminal Justice (GE)	3
ENGL 1020 Composition I (GE)	3	General Education	9
General Education	9	Semester Total	16
Semester Total	16		
Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
BIOL 1112 Animal Biology	4	BIOL 2020 General Ecology	3
CTE 3060 Technical Writing (GE)	3	Major Electives*	3
General Education	9	General Education	6
Semester Total	16	Free Choice Electives**	3
		Semester Total	15
Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
BIOL 3711 Plant Identification	4	BIOL 4919 Wildlife Policy and Law	3
COMM 2620 Public Relations	3	Free Choice Electives**	12
CJ 2300 Criminal Law and Procedure	3	Semester Total	15
Free Choice Electives**	6		
Semester Total	16		
Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
CJ 4302 Criminal Evidence	3	BIOL 4001 Ecology Senior Seminar	1
Major Electives*	3-4	BIOL 4222 The Biological Perspective	3
Free Choice Electives**	7-8	Major Electives*	4
Semester Total	14	Free Choice Electives**	4
		Semester Total	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.
- 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, B.S. in Ed. Degree (41-487)

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Freshman Year - Fall Semester

BIOL 1000 The Discipline of Biology and Earth Science	Hrs	1
BIOL 1111 Plant Biology		4
EASC 1004 Introduction to Geology (GE)		4
ENGL 1020 Composition I (GE)		3
General Education MATH		3
Semester Total		15

Freshman Year - Spring Semester

BIOL 1112 Animal Biology	Hrs	4
CHEM 1131 Chemistry I (GE)		5
ENGL 1030 Composition II or CTE 3060 Technical Writing (GE)		3
POLS 1510 American Government (GE)		3
Semester Total		15

Sophomore Year - Fall Semester

BIOL 3511 Genetics	Hrs	4
BIOL 2512 Cell Biology		3
EDFL 2100 Foundations of Education		2
FLDX 2150 Introductory Field Experience		1
EDFL 2240 Educational Psychology (GE)		3
HIST 1350 or 1351 History of the United States (GE)		3
Semester Total		16

Sophomore Year - Spring Semester

BIOL 2020 General Ecology	Hrs	3
PHYS 1101 Physics I (4) or PHYS 1104 Introduction to Sciences: Physics (4) or PHYS 2121 University Physics (5)		4-5
General Education		9
Semester Total		16-17
<i>(Successfully complete MoGEA exam by end of this semester)</i>		

Junior Year - Fall Semester

BIOL 3611 Microbiology	Hrs	4
BIOL 3712 Field Natural History		4
EDSP 2100 Education of the Exceptional Child		2
EDFL 4300 Educational Measurement & Evaluation		2
Major Electives*		3
Semester Total		15

Junior Year - Spring Semester

BIOL 3431 Animal Physiology (fall only)** or BIOL 4411 Plant Physiology (spring only)**	Hrs	4
CTE 2000 Technology & Society (GE)		3
EDFL 4210 The Teaching of Reading in the Secondary School		2
PSY 4230 Psychology of Adolescence		3
Major Electives*		3
Semester Total		15

Senior Year - Fall Semester

EDFL 3500 Secondary Teaching & Behavior Management	Hrs	3
FLDX 3550 Practicum in Secondary Instruction		3
STCH 4050 Science Teaching Methods		3
Major Electives*		3-4
General Education		6
Semester Total		16-17

Senior Year - Spring Semester***

FLDX 4595 Student Teaching Secondary I	Hrs	5
FLDX 4468 Student Teaching Secondary II		4
STCH 4080 Teaching Secondary Science		3
Semester Total		12

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

- *This major requires 9-10 hours of major electives (hours depend on PHYS option selected). See the Undergraduate catalog for appropriate major elective course choices and for the Unified Science Certification requirements.
- **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.
- ***The courses listed for this semester constitute the professional education (student teaching) block. The student should not take any other courses during this semester.
- The Missouri General Education Assessment (MoGEA) is an exam required of all Teacher Education students. Students must pass all five 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.
- 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)

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Freshman Year - Fall Semester	Hrs	Freshman Year - Spring Semester	Hrs
BTE 1210 Essentials of Managing Information (GE)	2	ECON 1010 Principles of Macroeconomics (GE)	3
CTE 1000 Intro. to Career Technology Education (fall only)	2	ENGL 1030 Composition II or CTE 3060 Technical Writing (GE)	3
ENGL 1020 Composition I (GE)	3	HIST 1350 or 1351 History of the United States (GE)	3
General Education Math	3	POLS 1510 American Government (GE)	3
General Education Science with laboratory	4	General Education	3
Semester Total	14	Semester Total	15

Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
ACCT 2101 Principles of Financial Accounting	3	BLAW 2720 Legal Environment Business	3
EDFL 2100 Foundations of Education	2	CTE 3110 Financial Management Education	3
FLDX 2150 Introductory Field Experience	1	General Education	9
EDFL 2240 Educational Psychology	3	Semester Total	15
EDSP 2100 Education of Exceptional Child	2	<i>(Successfully complete MoGEA exam by end of this semester)</i>	
General Education	6		
Semester Total	17		

Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
BTE 4535 Data Input Technologies (fall only)	2	BTE 4241 Coord. of Cooperative Education Programs (sp. only)	2
MGT 3315 Management of Organizations	3	BTE 4536 Integrated Productivity Applications (spring only)	3
MGT 3325 Business Communications	3	BTE 4550 Publishing Applications for Business (spring only)	2
MKT 3405 Marketing Policy	3	CTE 4145 Curriculum Construction in CTE	3
PSY 4230 Psychology of Adolescence	3	EDFL 4210 The Teaching of Reading in the Secondary School	2
Major Elective*	3	Major Electives*	4
Semester Total	17	Semester Total	16

Apply for Student Teaching

Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester***	Hrs
BTE 4210 Methods of Teaching Business Edu. (fall/sum. only)	3	BTE 4220 Secondary Field Experience II	1
CTE 4280 Implementing CTE Programs and Lab Management**	3	CTE 4135 Professional Preparation in CTE	2
CTE 4501 Managing Classroom Technologies (fall/sum. only)	2	FLDX 4595 Student Teaching I	5
EDFL 3500 Behavioral Management	3	FLDX 4468 Student Teaching II	4
FLDX 3550 Practicum in Secondary Instruction	1	Semester Total	12
EDFL 4300 Education Measurement & Evaluation	2		
Semester Total	14		

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 7 credit hours of major electives. See program coordinator for course suggestions.
- **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.
- The Missouri General Education Assessment (MoGEA) is an exam required of all Teacher Education students. Students must pass all five 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.
- 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 2014 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
CFD 1010 Individual & Family Relationships (GE)	3	CHEM 1104 Introduction to the Sciences: Chemistry (GE)	4
CFD 1220 Child Development	3	ENGL 1030 Composition II or CTE 3060 Technical Writing (GE)	3
CTE 1000 Intro. to Career & Technology Education (fall only)	2	POLS 1510 American Government (GE)	3
ENGL 1020 Composition I (GE)	3	General Education	5-6
General Education Math	3	Semester Total	15-16
Semester Total	14		
AE 1400 Freshman Seminar*	1		
Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
FAME 1450 Fundamentals of Apparel Design and Construction	3	FAME 2442 Textile Science	3
FCSE 2000 FCS Student Organizations	1	FOOD 2322 Food Preparation	3
EDFL 2100 Foundations of Education	2	HIST 1350 or 1351 History of the United States (GE)	3
FLDX 2150 Introductory Field Experience	1	General Education	9
EDFL 2240 Educational Psychology	3	Semester Total	18
EDSP 2100 Education of the Exceptional Child	2	<i>(Successfully complete MoGEA exam by end of this semester)</i>	
General Education	3		
Semester Total	15		
Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
CFD 3230 Family Systems & Lifespan Development (fall only)	3	CFD 3240 Parent-Child Interaction (spring only)	3
CTE 3110 Financial Management Education	3	CFD 4220 Sexuality Across the Lifespan or	
D&N 3340 Nutrition	3	HED 1100 Personal Health (GE) or	
ECEL 3260 Practicum in Child Development	1	HED 4320 Teaching Sexuality Education in the School	3
FCSE 3710 Found. of Family Consumer Sciences Educ. (fall only)	3	CTE 4145 Curriculum Construction for CTE	3
General Education (if HED 1100 is not chosen) or		FCSE 3120 Family Resource Management (spring only)	3
Major Elective** (if HED 1100 is chosen)	3	PSY 4230 Psychology of Adolescence	3
Semester Total	16	Semester Total	15
Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester***	Hrs
EDFL 3500 Secondary Teaching & Behavioral Management	3	CTE 4135 Professional Preparation in CTE	2
FLDX 3550 Practicum in Secondary Instruction	1	FCSE 4725 Secondary Field Experience II	1
EDFL 4210 The Teaching of Reading in the Secondary School	2	FLDX 4595 Student Teaching Secondary I	5
EDFL 4300 Educational Measurement & Evaluation	2	FLDX 4468 Student Teaching Secondary II	4
FCSE 4740 Methods of Teaching Fam. Consumer Sci. (fall only)	3	Semester Total	12
FAME 4410 Materials for Interior Furnishings	3		
Major Elective**	1		
Semester Total	15		

**Career and Technology Teacher Education Major, B.S. in Ed. Degree
Area 2 Family and Consumer Sciences Teacher Education (Birth-12 Certification) 120 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.
- **This major area requires 1-4 credit hours of major electives. See program coordinator for course suggestions.
- *** The courses listed for this semester constitute the professional education (student teaching) block. The student should not take any other courses during this semester.
- Certification to teach family and consumer sciences from birth to grade 12.
- The Missouri General Education Assessment (MoGEA) is an exam required of all Teacher Education students. Students must pass all five 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.
- 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 2014 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
CTE 1000 Intro. to Career & Technical Education (fall only)	2	CADD 1170 Introduction to Computer-Aided Drafting	2
CTE 1300 Introduction to Engineering Design (fall only)	3	ENGL 1030 Composition II or CTE 3060 Technical Writing (GE)	3
ENGL 1020 Composition I (GE)	3	HIST 1350 or 1351 History of the United States (GE)	3
CADD 1105 Basic AutoCAD	1	PHYS 1104 Introduction to the Sciences: Physics (Lab) (GE)	4
General Education Math*	3-5	General Education	3
General Education	3	Semester Total	15
Semester Total	15-17		

Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
EDFL 2100 Foundations of Education	2	BIOL 1004 or other Knowledge Area II General Education**	3-4
FLDX 2150 Introductory Field Experience	1	ENGT 2515 Applied Manufacturing Processes	3
EDFL 2240 Educational Psychology (GE)	3	POLS 1510 American Government (GE)	3
EDSP 2100 Education of the Exceptional Child	2	General Education*	6
ENGT 1510 Introduction to Manufacturing Processes	3	Semester Total	15-16
ET 1020 General Electronics	3	<i>(Successfully complete MoGEA exam by end of this semester)</i>	
General Education	3		
Semester Total	17		

Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
CTE 2000 Technology & Society (GE)	3	BTE 4241 Coord. of Cooperative Educ. Programs (spring only)	2
CTE 4280 Implementing CTE Programs and Lab Management+ Major Electives***	12	SOT 4570 Computer Graphics	3
Semester Total	18	IGEN 3116 Creative Problem Solving	3
		PSY 4230 Psychology of Adolescence	3
		Major Electives***	3
		Semester Total	14

Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester +	Hrs
CTE 4125 Methods of Teaching Problem-Based Learning	3	CTE 4135 Professional Preparation in CTE	2
CTE 4145 Curriculum Construction CTE	3	FLDX 4595 Student Teaching Secondary I	5
EDFL 3500 Secondary Teaching & Behavioral Management FLDX 3550 Practicum in Secondary Instruction	3	FLDX 4468 Student Teaching Secondary II	4
EDFL 4210 The Teaching of Reading in the Secondary School	1	T&OE 4120 Secondary Field Experience	1
EDFL 4300 Educational Measurement & Evaluation	2	Semester Total	12
Semester Total	14		

**Career and Technology Teacher Education Major, B.S. in Ed. Degree
Area 3 Engineering and Technology Teacher Education (9-12 Certification) - 120 hours**

- *Students interested in Project Lead the Way (PLTW) curriculum must have complete a certain level of mathematics. Students may take Option 1 = MATH 1111 and 1112 (elective, not part of general education) or Option 2 = MATH 1150 or 1151.
- **Students interested in PLTW curriculum must have BIOL 1004 as the third choice in Knowledge Area II in General Education.
- ***Suggested Major Electives (15 hours required) to enhance your degree program are: ATM 1010 CADD 3160 or 4180, CMGT 3010, CTE 3060 (counts in General Education) or 4115, EDFL 4130 and 4340, ENGT 4520, or GRAP 1010.
- +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.
- The Missouri General Education Assessment (MoGEA) is an exam required of all Teacher Education students. Students must pass all five 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.
- 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 2014 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
CHEM 1131 General Chemistry I (GE)*	5	CHEM 1132 General Chemistry II	5
ENGL 1020 Composition I (GE)	3	ENGL 1030 Composition II or CTE 3060 Technical Writing (GE)	3
MATH 1151 Calculus & Analytical Geometry I (GE)*	5	MATH 1152 Calculus & Analytical Geometry II	5
General Education Managing Information	2-3	General Education	3
Semester Total	15-16	Semester Total	16
AE 1400 Freshman Seminar**	1		

Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
CHEM 3341 Organic Chemistry I	4	CHEM 3342 Organic Chemistry II	4
PHYS 1101 College Physics I (GE)	4	PHYS 1102 College Physics II	4
General Education	6	General Education	6
Semester Total	14	Semester Total	14

Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
CHEM 3111 Intermediate Inorganic Chemistry***	4	CHEM 3212 Quantitative Analysis	3
CHEM 3421 Intermediate Biochemistry	3	CHEM 3920 Communication Skills in Chemistry***	2
CHEM 4231 Instrumental Analysis***	4	CHEM 4910 Research in Chemistry	1
CHEM 4910 Research in Chemistry	1	General Education	6
General Education	3	Free Choice Electives	3
Semester Total	15	Semester Total	15

Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
CHEM 4111 Advanced Inorganic Chemistry or CHEM 4313 Advanced Organic Chemistry	3	CHEM 4421 Advanced Biochemistry	3
CHEM 4531 Physical Chemistry I***	4	CHEM 4532 Physical Chemistry II***	4
CHEM 4910 Research in Chemistry	1	CHEM 4910 Research in Chemistry	1
Free Choice Electives	8	Free Choice Electives	6-7
Semester Total	16	Semester Total	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.
- 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 2014 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
CHEM 1131 General Chemistry I (GE)*	5	CHEM 1132 General Chemistry II	5
ENGL 1020 Composition I (GE)	3	ENGL 1030 Composition II or CTE 3060 Technical Writing (GE)	3
MATH 1151 Calculus & Analytical Geometry I (GE)*	5	MATH 1152 Calculus & Analytical Geometry II	5
General Education Managing Information	2-3	General Education	3
Semester Total	15-16	Semester Total	16
AE 1400 Freshman Seminar**	1		

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

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

Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
CHEM 4531 Physical Chemistry I***	4	CHEM 4221 Environmental Chemistry***	3
CHEM 4910 Research in Chemistry	1	CHEM 4532 Physical Chemistry II***	4
ET 3017 Industrial Electronics	4	CHEM 4910 Research in Chemistry	1
Free Choice Electives	6	Free Choice Electives	6-7
Semester Total	15	Semester Total	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.
- **AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- ***Upper level chemistry courses offered variably. Check with the department for actual offerings.
- To satisfy the General Education Assessment (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 2014 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
CHEM 1131 General Chemistry I (GE)*	5	CHEM 1132 General Chemistry II	5
ENGL 1020 Composition I (GE)	3	ENGL 1030 Composition II or CTE 3060 Technical Writing (GE)	3
MATH 1151 Calculus & Analytical Geometry I (GE)*	5	MATH 1152 Calculus & Analytical Geometry II	5
General Education Managing Information	2-3	General Education	3
Semester Total	15-16	Semester Total	16
AE 1400 Freshman Seminar**	1		

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

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

Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
CHEM 4531 Physical Chemistry I***	4	CHEM 4221 Environmental Chemistry***	3
CHEM 4910 Research in Chemistry	1	CHEM 4532 Physical Chemistry II***	4
GEOG 4220 Geographic Information Systems I	3	CHEM 4910 Research in Chemistry	1
Free Choice Electives	6	SAFE 3120 Industrial Hygiene	3
Semester Total	14	Free Choice Electives	2-3
		Semester Total	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.
- **AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- ***Upper level chemistry courses offered variably. Check with the department for actual offerings.
- To satisfy the General Education Assessment (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 2014 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
CHEM 1131 General Chemistry I (GE)*		5	CHEM 1132 General Chemistry II		5
ENGL 1020 Composition I (GE)		3	ENGL 1030 Composition II or CTE 3060 Technical Writing (GE)		3
MATH 1151 Calculus & Analytical Geometry I (GE)*		5	MATH 1152 Calculus & Analytical Geometry II		5
General Education Managing Information (CIS 1600 rec. for IBE Block)#		2-3	General Education		3
Semester Total		15-16	Semester Total		16
AE 1400 Freshman Seminar**		1			

Sophomore Year - Fall Semester		Hrs	Sophomore Year - Spring Semester		Hrs
CHEM 3341 Organic Chemistry I		4	ACCT 2100 Survey of Accounting		3
PHYS 1101 College Physics I (GE)		4	CHEM 3342 Organic Chemistry II		4
General Education		6	PHYS 1102 College Physics II		4
Semester Total		14	General Education		3
			Semester Total		14

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

Senior Year - Fall Semester		Hrs	Senior Year - Spring Semester		Hrs
CHEM 4531 Physical Chemistry I***		4	CHEM 4532 Physical Chemistry II***		4
CHEM 4910 Research in Chemistry		1	CHEM 4910 Research in Chemistry		1
CIS 3630 Management Information Systems#		3	Free Choice Electives		8-9
MGT 3315 Management of Organizations#		3	Semester Total		13-14
MGT 3385 or MKT 3485 or CIS 3685 IBE Practicum#		3			
MKT 3405 Marketing Policy#		3			
Semester Total		17			

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

- *Enrollment in CHEM 1131 and MATH 1151 is dependent upon one or more of the following: math placement level, high school math courses completed, ACT/SAT standardized test scores, and/or a possible mathematics placement examination.
- **AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- ***Upper level chemistry courses offered variably. Check with the department for actual offerings.
- #Students pursuing Area 4 must enroll in the IBE Block. This includes the IBE Practicum (MGT 3385, MKT 3485 or CIS 3685) concurrently with the IBE sections of MGT 3315, MKT 3405 and CIS 3630. See CIS department for enrollment in CIS 3630 due to prerequisites (ACCT 2101 and CIS 1600).
- 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, B.S. in Ed. Degree (41-485)

This guide is valid for the 2014 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 1110 Principles of Biology or BIOL 1111 Plant Biology*	3-4	BIOL 1005 Introduction to Environmental Sciences (GE)	3
CHEM 1131 General Chemistry I (GE)**	5	CHEM 1132 General Chemistry II	5
CTE 2000 Technology & Society (GE)	3	ENGL 1030 Composition II or CTE 3060 Technical Writing (GE)	3
ENGL 1020 Composition I (GE)	3	HIST 1350 or 1351 History of the United States (GE)	3
Semester Total	14-15	Semester Total	14

Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
CHEM 3341 Organic Chemistry I	4	CHEM 3212 Quantitative Analysis	3
EDFL 2100 Foundations of Education	2	EASC 1004 Introduction to Geology	4
FLDX 2150 Introductory Field Experience	1	PHYS 1101 or PHYS 2121 (or PHYS 2123 & 1123)	4-5
EDFL 2240 Educational Psychology	3	POLS 1510 American Government (GE)	3
EDSP 2100 Education of the Exceptional Child	2	Semester Total	14-15
MATH 1151 Calculus & Analytic Geometry I (GE)**	5	<i>(Successfully complete MoGEA exam by end of this semester)</i>	
Semester Total	17		

Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
CHEM 3111 Intermediate Inorganic Chemistry***	4	CHEM 4531 or 4532 Physical Chemistry***	4
PSY 4230 Psychology of Adolescence (GE)	3	EDFL 4210 The Teaching of Reading in the Secondary School	2
Major Elective#	3	EDFL 4300 Educational Measurement & Evaluation	2
General Education	6	General Education	6
Semester Total	16	Free Choice Elective	3
		Semester Total	17

Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester+	Hrs
CHEM 3421 Intermediate Biochemistry	3	FLDX 4595 Student Teaching Secondary I	5
EDFL 3500 Secondary Teaching & Behavioral Management	3	FLDX 4468 Student Teaching Secondary II	4
FLDX 3550 Practicum in Secondary Instruction	1	STCH 4080 Secondary Science Teaching	3
STCH 4050 Science Teaching Methods	3	Semester Total	12
Major Elective#	1-3		
General Education	3		
Semester Total	14-16		

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

- *Students completing the Unified Science Certification requirements should choose BIOL 1111 instead of BIOL 1110. Meet with a departmental advisor to learn more about Unified Science Certification.
- **Enrollment in CHEM 1131 and MATH 1151 is dependent upon one or more of the following: math placement level, high school math courses completed, ACT/SAT standardized test scores, and/or a possible mathematics placement examination.
- *** Upper level chemistry courses offered variably. Check with the department for actual offerings.
- #See catalog for major electives and Unified Science Certification requirements. Number of major electives ranges from 4-6 credit hours and will depend on biology and physics choices.
- +The courses listed for this semester constitute the professional education (student teaching) block. The student should not take any other courses during this semester.
- The Missouri General Education Assessment (MoGEA) is an exam required of all Teacher Education students. Students must pass all five 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.
- 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.

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

This guide is valid for the 2014 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
AE 1450 Valuing Differences	1	CFD 1220 Child Development	3
CFD 1010 Individual & Family Relationships (GE)	3	ECEL 2110 Diversity and Social Justice (GE)	3
ENGL 1020 Composition I (GE)	3	ENGL 1030 Composition II or CTE 3060 Technical Writing (GE)	3
PSY 1100 General Psychology or SOC 1800 Gen. Sociology (GE)	3	General Education	6
General Education	6	Semester Total	15
Semester Total	16		
AE 1400 Freshman Seminar*	1		
Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
CFD 1230 Observation of Children	2	CTE 3110 Financial Management Education or	
HIST 1350 or 1351 History of the United States (GE)	3	FCSE 3120 Family Resource Management	3
General Education	9	SOC 2805 Introduction to Social Research	3
Semester Total	14	General Education	3
		Free Choice Electives**	6
		Semester Total	15
Junior Year - Fall Semester	Hrs	Junior Year - Second Semester	Hrs
CFD 3230 Family Systems & Life Span Development	3	CFD 3240 Parent-Child Interaction	3
CFD 3710 Field Experience in Child & Family Development	3	CFD 3250 Org. & Admin. of Programs for Young Children	3
Free Choice Electives**	9	CFD 4220 Sexuality Across the Lifespan	3
Semester Total	15	Free Choice Electives**	6
		Semester Total	15
Summer Semester	Hrs		
CFD 4710 Internship***	3		
Semester Total	3		
Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
CFD 3260 Youth Culture and Development	3	CFD 4745 Senior Seminar	3
CFD 4260 Adulthood	3	CFD Major Elective (see Catalog for course choices)	3
CFD 4850 Family Policy and Advocacy	3	Free Choice Electives**	6
CFD Major Elective (see Catalog for course choices)	3	Semester Total	12
Free Choice Electives**	3		
Semester Total	15		

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.
- 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.

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

This guide is valid for the 2014 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
COMM 1100 Introduction to Communication	1	COMM 1000 Public Speaking (GE)	3
COMM 2330 Communication in Small Groups/Teams	3	COMM 2100 Introduction to Communication Theory	3
ENGL 1020 Composition I (GE)	3	COMM 2320 Foundations of Rhetorical Theory (spring only)#	
General Education	9	or General Education	3
Semester Total	16	ENGL 1030 Composition II or CTE 3060 Technical Writing (GE)	3
		General Education	3
		Semester Total	15
Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
COMM 1520 Reporting or COMM 2200 Writing Across the Media or COMM 2625 Writing & Editing for Public Relations	3	COMM 3010 Interpersonal Communication	3
COMM 2000 Media Literacy (GE)	3	COMM 3100 Communication Research Methods	3
COMM 2380 Intro. to Organizational Comm. (fall only)# or General Education	3	Major Area Electives**	3
General Education	6	General Education	6
Semester Total	15	Semester Total	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	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.
- 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 2014 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.

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

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.) is highly recommended for academic success. AE or BADM 1400 counts as a free choice elective.
- ***All CIS majors must enroll in the IBE Block. This includes the IBE practicum (CIS 3685, MKT 3485 or MGT 3385) concurrently with the IBE sections of MGT 3315, MKT 3405, and CIS 3630. This is typically done during the fall of the junior year. Prerequisites for the IBE block include: ACCT 2101, CIS 1600, and junior standing.
- 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 2014 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
CIS 1600 Business Information Management (GE)*	3	COMM 1000 Public Speaking or COMM 1050 Fundamentals of Oral Communication Competency (GE)	3
CIS 1612 Ethics in Information Technology (GE)	3	ECON 1011 Principles of Microeconomics*	3
ECON 1010 Principles of Macroeconomics (GE)*	3	ENGL 1030 Composition II or CTE 3060 Technical Writing (GE)	3
ENGL 1020 Composition I (GE)	3	General Education	6
MATH 1111 College Algebra (GE)*	3	Semester Total	15
Semester Total	15		
AE 1400 or BADM 1400 Freshman Seminar**	1		
Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
ACCT 2101 Principles of Financial Accounting*	3	ACCT 2102 Principles of Managerial Accounting*	3
CIS 2605 Programming with Visual C#	3	BLAW 2720 Legal Environment of Business*	3
General Education	10	CIS 2615 Introduction to JAVA	3
Semester Total	16	CIS 2665 Prin. of Data Communications & Local Area Network	3
		FIN 2801 Business Statistics I*	3
		Semester Total	15
		Note: Complete all B.S.B.A. Admission requirements.*	
Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
CIS 3665 Data Communication Technologies (fall only)	3	CIS 3650 Database Management Systems	3
(IBE Block-below)***		CIS 3660 Analysis & Design of Computer Information Systems	3
CIS 3630 Management Information Systems***	3	FIN 3801 Business Statistics II	3
MGT 3315 Management of Organizations***	3	MGT 3325 Business Communications	3
MKT 3405 Marketing Policy***	3	General Education	3
IBE Practicum (CIS 3685/MKT 3485/MGT 3385)***	3	Semester Total	15
Semester Total	15		
Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
CIS 4665 Data Communication & Distributed Data Processing (fall and summer semesters only)	3	CIS 4685 Network Planning, Design and Security (spring only)	3
FIN 3850 Principles of Finance	3	CIS 4690 Systems Architecture & Development	3
MGT 3360 Production/Operations Management	3	CIS Electives	5
MGT 4357 Organization Policy & Strategy	3	General Education	3
CIS Elective	3	Semester Total	14
Semester Total	15		

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.) is highly recommended for academic success. AE or BADM 1400 counts as a free choice elective.
- ***All CIS majors must enroll in the IBE Block. This includes the IBE practicum (CIS 3685, MKT 3485 or MGT 3385) concurrently with the IBE sections of MGT 3315, MKT 3405, and CIS 3630. This is typically done during the fall of the junior year. Prerequisites for the IBE block include: ACCT 2101, CIS 1600, and junior standing.
- 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 2014 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
COMM 1000 Public Speaking (GE)	3	CS 1110 Computer Programming II	3
CS 1000 Computers and Modern Society (GE)	3	General Education	12
CS 1100 Computer Programming I	3	Semester Total	15
ENGL 1020 Composition I (GE)	3		
General Education	3		
Semester Total	15		
AE 1400 Freshman Seminar*	1		

Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
CS 2300 Data Structures	3	CS 2200 Introduction to Computer Organization	3
CS 3500 C and UNIX Environment**	3	CS 2400 Discrete Structures	3
MATH 1131 Applied Calculus (GE) or		CS 3110 Applications Programming in C# and .NET** or	
MATH 1151 Calculus & Analytic Geometry I (GE)	3-5	CS 3800 Applications Development w/ VB.NET***	3
General Education	6	CTE 3060 Technical Writing (GE)	3
Semester Total	15-17	MATH 1300 Basic Statistics (GE) ++ or	
		MATH 3311 Introduction to Mathematical Statistics**	3
		Semester Total	15

Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
CS 3200 Computer Architecture**	3	CS 3100 Programming Languages**	3
CS 4110 Mobile Applications Programming with Android or		CS 3110, CS3800, CS 4110, and/or CS 4120***	3-6
CS 4120 Advanced Applications Programming in Java***	3	CS 4500 Operating Systems**	3
CS 4300 Algorithm Design & Analysis**	3	Option 1 Major Elective+	3-6
Option 1 Major Elective+	3	Semester Total	15
General Education	3		
Semester Total	15		

Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
CS 4600 Database Theory & Applications**	3	CS 4920 Senior Project**	3
CS 4910 Software Engineering**	3	Option 1 Major Elective+	3
Option 1 Major Elective+	3	Free Choice Electives + + +	7-9
General Education	3	Semester Total	13-15
Free Choice Electives + + +	3		
Semester Total	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 9-12 credit hours of major electives from CS 3110, 3800, 4110, and/or 4120. The number of hours chosen among these classes will determine the number of major electives needed from the second major electives area (see below)
- +Option 1 requires 12-15 credit hours of major electives (15 required if only 9 hours were chosen from CS 3110, 3800, 4110, and 4120 - see above). See the 2014 Undergraduate Catalog for the list of appropriate course choices.
- ++If MATH 1300 is chosen, it will count in both the major and in general education. If chosen, three additional hours of free choice electives will be needed to reach 120 hours for graduation. This plan assumes MATH 1300 is not chosen.
- +++The number of free choice electives will depend on the selections made in the two required MATH 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.

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

This guide is valid for the 2014 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 Technology and Info. Management (BTE 1210) (GE)
Semester Total

Hrs
 1
 3
4

High School Junior Year/MCC - Fall Semester
 CSIS 123 Programming Fundamentals (CS 1100)
 CSIS 223 Object-Oriented Programming (CS 3110)**
 CSIS 143 Database Design and Management (CS 3650)
 HIST 120, HIST 121, POLS 135, POLS 136, or POLS 137 (GE)
 MATH 110 Intermediate Algebra or MATH 120 College Algebra
Semester Total

Hrs
 3
 3
 3
 3
 3
15

High School Junior Year/MCC - Spring Semester
 CSIS 222 Java (substitute for CS 1110)
 MATH 115 (MATH 1300) (GE)++
 SPDR 100 Fundamentals of Speech (COMM 1000) (GE)
General Education
Semester Total

Hrs
 3
 3
 3
 3
12

High School Senior Year/MCC - Summer Semester
BSAD 120 Organizational Behavior
CSIS 170 Principles of Information Assurance
Semester Total

Hrs
 3
 3
6

High School Senior Year/MCC - Fall Semester
 CSIS 115 Intro. to Microcomputer Applications (CIS 1600)
 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 128 Web Development
 CSIS 152 Linux Operating Systems (CS 3500)
 ENGL 215 Technical Writing (CTE 3060) (GE)
 MATH 141 Discrete Structures for CS I (CS 2400)
 General Education
Semester Total
(graduate from high school this semester)

Hrs
 3
 3
 3
 3
 3
15

MCC/UCM Junior Year - Summer Semester
 BSAD 127/221 Management Internship I
 CSIS 228 Advanced Web Development (CS 3120)+
Semester Total

Hrs
 3
 3
6

MCC/UCM Junior Year - Fall Semester
 CSIS 221 Introduction to Computer Architecture (CS 2200)
 CSIS 271 Data Structures and Algorithm Analysis (CS 2300)
 CSIS 279 Web Database Programming
 CSIS 290 Field Competencies and Employment Strategies
 General Education
Semester Total

Hrs
 3
 3
 3
 3
 3
15

MCC/UCM Junior Year - Spring Semester
 CS 1000 Computers and Modern Society (GE)
 CS 3100 Programming Languages*
 CS 3800 Applications Development w/ VB.NET**
 MATH 175 Calculus for Business & Social Sci. (MATH 1131) (GE)
 General Education
Semester Total

Hrs
 3
 3
 3
 3
 3
15

UCM Senior Year - Summer Semester
 CS 4020 Internship in CS+
 CS 4110 Mobile Applications Programming with Android**
Semester Total

Hrs
 3
 3
6

UCM Senior Year - Fall Semester
 CS 3200 Computer Architecture*
 CS 4300 Algorithm Design & Analysis*
 CS 4800 Computer Networking+
 CS 4910 Software Engineering*
 General Education
Semester Total

Hrs
 3
 3
 3
 3
 3
15

UCM Senior Year - Spring Semester
 CS 4120 Advanced Applications Programming in Java**
 CS 4500 Operating Systems*
 CS 4600 Database Theory & Applications*
 CS 4820 Computer Security+
 CS 4920 Senior Project*
Semester Total

Hrs
 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 2014 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 9-12 credit hours of major electives from CS 3110, 3800, 4110, and/or 4120. It is recommended that MIC students take all 12 credit hours from this list.
- +Option 1 requires 12-15 credit hours of major electives (15 required if only 9 hours were chosen from CS 3110, 3800, 4110, and 4120 - see above). It is recommended that MIC students take the following 12 credit hours: CS 3120, 4020, 4800, and 4820 from this list.
- 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 2014 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
CS 1000 Computers and Modern Society (GE)	3	COMM 1000 Public Speaking (GE)	3
CS 1100 Computer Programming I	3	CS 1110 Computer Programming II	3
ENGL 1020 Composition I (GE)	3	MATH 1151 Calculus & Analytic Geometry I (GE)	5
General Education	6	General Education	3
Semester Total	15	Semester Total	14
AE 1400 Freshman Seminar*	1		
Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
CS 2300 Data Structures	3	BIOL 1005, 1110, 2010, 2510, CHEM 1103, EASC 3010, 3112, 3114, or PHYS 1103+	3
CS 3500 C and UNIX Environment**	3	CS 2200 Introduction to Computer Organization	3
MATH 1152 Calculus & Analytic Geometry II	5	CS 2400 Discrete Structures	3
General Education	3	CTE 3060 Technical Writing (GE)	3
Semester Total	14	General Education	3
		Semester Total	15
Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
BIOL 1007, EASC 1004, or PHYS 1101 + +	4	BIOL 1112, EASC 1114, or PHYS 1102 + +	4
CS 3200 Computer Architecture**	3	CS 3100 Programming Languages**	3
CS 4300 Algorithm Design & Analysis**	3	CS 4500 Operating Systems**	3
General Education	6	Option 2 Major Elective***	3
Semester Total	16	General Education	3
		Semester Total	16
Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
CS 4600 Database Theory & Applications**	3	CS 4920 Senior Project**	3
CS 4910 Software Engineering**	3	MATH 2153 Calculus & Analytic Geometry III or MATH 3710 Linear Algebra or MATH 4450 Intro. to Graph Theory	3
MATH 3311 Introduction to Mathematical Statistics**	3	Free Choice Electives + + +	9
Option 2 Major Elective***	3	Semester Total	15
General Education	3		
Semester Total	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 6 hours of CS major electives. See the 2014 Undergraduate Catalog for the list of appropriate course choices.
- +If chosen, BIOL 1005, 2010, 2510, CHEM 1103, or PHYS 1103 will count both in the major and in general education.
- + +Students must choose one set from : BIOL 1007/1112, EASC 1004/1114, or PHYS 1101/1102. If chosen, BIOL 1007, EASC 1004, 1114, or PHYS 1101 will count both in the major and in general education.
- + + +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. This plan assumes no overlap.
- 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 2014 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
CS 1000 Computers and Modern Society (GE)	3	COMM 1000 Public Speaking (GE)	3
CS 1100 Computer Programming I	3	CS 1110 Computer Programming II	3
ENGL 1020 Composition I (GE)	3	General Education	9
General Education	6	Semester Total	15
Semester Total	15		
AE 1400 Freshman Seminar*	1		

Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
CS 2300 Data Structures	3	CS 2200 Introduction to Computer Organization	3
CS 3500 C and UNIX Environment***	3	CS 2400 Discrete Structures	3
MATH 1131 Applied Calculus (GE) or		CTE 3060 Technical Writing (GE)	3
MATH 1151 Calculus & Analytic Geometry I (GE)	3-5	MATH 1300 Basic Statistics (GE)+ or	
General Education	6	MATH 3311 Introduction to Mathematical Statistics***	3
Semester Total	15-17	Option 3 Major Elective**	3
		Semester Total	15

Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
CS 3200 Computer Architecture***	3	CS 3100 Programming Languages***	3
CS 4300 Algorithm Design & Analysis***	3	CS 4500 Operating Systems***	3
Option 3 Major Elective**	6	Option 3 Major Elective**	6
General Education	3	Free Choice Electives+ +	3
Semester Total	15	Semester Total	15

Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
CS 4600 Database Theory & Applications***	3	CS 4920 Senior Project***	3
CS 4910 Software Engineering***	3	Option 3 Major Elective**	3
Option 3 Major Electives**	6	Free Choice Electives+ +	7-9
General Education	3	Semester Total	13-15
Semester Total	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 24 hours of major electives: 9-15 hours from set one and 9-15 hours from set two. See the 2014 Undergraduate Catalog for the list of appropriate course choices in each set.
- ***This class is only offered during the semester indicated.
- +If MATH 1300 is chosen, it will count in both the major and in general education. If chosen, three additional hours of free choice electives will be needed to reach 120 hours for graduation. This plan assumes MATH 1300 is not chosen.
- ++The number of free choice electives will depend on the selections made in the two required MATH 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.

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

This guide is valid for the 2014 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
CS 1000 Computers and Modern Society (GE)	3	COMM 1000 Public Speaking (GE)	3
CS 1100 Computer Programming I	3	CS 1110 Computer Programming II	3
ENGL 1020 Composition I (GE)	3	General Education	9
General Education	6	Semester Total	15
Semester Total	15		
AE 1400 Freshman Seminar*	1		

Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
CS 2300 Data Structures	3	CS 2200 Introduction to Computer Organization	3
CS 3500 C and UNIX Environment***	3	CS 2400 Discrete Structures	3
MATH 1131 Applied Calculus (GE) or		CTE 3060 Technical Writing (GE)	3
MATH 1151 Calculus & Analytic Geometry I (GE)	3-5	MATH 1300 Basic Statistics (GE)+ or	
General Education	6	MATH 3311 Introduction to Mathematical Statistics***	3
Semester Total	15-17	Option 4 Major Elective**	3
		Semester Total	15

Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
CS 3810 Introduction to Game Design	3	CS 3100 Programming Languages***	3
CS 3200 Computer Architecture***	3	CS 4110 Mobile Applications Programming with Android	3
CS 4300 Algorithm Design & Analysis***	3	CS 4500 Operating Systems***	3
Option 4 Major Elective**	3	Option 4 Major Elective**	3
General Education	3	Free Choice Electives+ +	3
Semester Total	15	Semester Total	15

Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
CS 4600 Database Theory & Applications***	3	CS 4830 Game Development	3
CS 4910 Software Engineering***	3	CS 4920 Senior Project***	3
Option 4 Major Elective**	3	Option 4 Major Elective**	3
General Education	3	Free Choice Electives+ +	4-6
Free Choice Electives+ +	3	Semester Total	13-15
Semester Total	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 15 hours of major electives. See the 2014 Undergraduate Catalog for the list of appropriate course choices.
- ***This class is only offered during the semester indicated.
- +If MATH 1300 is chosen, it will count in both the major and in general education. If chosen, three additional hours of free choice electives will be needed to reach 120 hours for graduation. This plan assumes MATH 1300 is not chosen.
- ++The number of free choice electives will depend on the selections made in the two required MATH 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.

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

This guide is valid for the 2014 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
CIS 1600 Business Information Management (GE)		3	CADD 1105 Basic AutoCAD		1
CMGT 1300 Introduction to Construction Management		3	CADD 1110 Fundamentals of Drafting		3
CMGT 1301 Seminar in Construction Management		.5	CMGT 2310 Construction Plans & Specifications		3
ENGL 1020 Composition I (GE)		3	ECON 1010 Principles of Macroeconomics (GE)		3
MATH 1111 College Algebra (GE)		3	MATH 1112 College Trigonometry		2
General Education		3	PHYS 1103 Introduction to the Sciences: Physics (GE)		3
Semester Total		15.5	Semester Total		15

Sophomore Year - Fall Semester		Hrs	Sophomore Year - Spring Semester		Hrs
CMGT 1301 Seminar in Construction Management		.5	BLAW 2720 Legal Environment of Business		3
CMGT 2020 Statics		3	CMGT 3020 Applied Strength Materials		3
CMGT 2325 Project Cost Estimating		3	CTE 3060 Technical Writing (GE)		3
CMGT 2340 Surveying & Construction Layout		3	EASC 2100 Engineering Geology		4
EASC 1004 Introduction to Geology (GE)		4	General Education		3
MATH 1300 Basic Statistics		3	Semester Total		16
Semester Total		16.5			

Junior Year - Fall Semester		Hrs	Junior Year - Spring Semester		Hrs
ACCT 2101 Principles of Financial Accounting		3	ACCT 2102 Principles of Managerial Accounting or MKT 3405 Marketing Policy*		3
CMGT 1301 Seminar in Construction Management		.5	CADD 3150 Civil Drafting or		
CMGT 3330 Building Codes & Code Administration		3	CADD 4162 Commercial Architecture Design/Drafting (BIM)		3
CMGT 3355 Construction Planning & Scheduling		3	CMGT 3320 Principles of Construction Management		3
MGT 3315 Management of Organizations* or INDM 4210 Industrial Management		3	ENGT 2040 Engineering Material Science		4
General Education		3	General Education		3
Semester Total		15.5	Semester Total		16

Summer - Between Junior & Senior Year	Hrs
SOT 3022 Internship in Technology**	1
Semester Total	1

Senior Year - Fall Semester		Hrs	Senior Year - Spring Semester		Hrs
CMGT 1301 Seminar in Construction Management		.5	CMGT 4310 Construction Safety		3
CMGT 3350 Building Structures: Methods & Materials		3	CMGT 4325 Advanced Estimating & Cost Analysis		3
CMGT 4355 Computer-Based Project Control		3	CMGT 4330 Mechanical Systems for Buildings or		
HRM 3920 Human Resources Management or INDM 4260 Organizational Dynamics		3	CMGT 4380 Heavy Construction: Methods and Materials		3
General Education		6	CMGT 4400 Construction Operations		3
Semester Total		15.5	General Education		3
			Semester Total		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.
- **SOT 3022 Internship in Technology should be done during the summer between the junior/senior 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.

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

This guide is valid for the 2014 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
CJ 1000 Introduction to Criminal Justice (GE)	3	CJ 3010 Policing a Democratic Society	3
CJ 1605 Orientation to the Criminal Justice Major	1	ENGL 1030 Composition II or CTE 3060 Technical Writing (GE)	3
ENGL 1020 Composition I (GE)	3	General Education	9
General Education	9	Semester Total	15
Semester Total	16		
AE 1400 Freshman Seminar*	1		

Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
CJ 2300 Criminal Law and Procedure	3	CJ 3006 Corrections	3
CJ Major Elective	3	CJ Major Elective	3
General Education	9	General Education	6
Semester Total	15	Free Choice Electives	3
		Semester Total	15

Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
CJ 3605 Junior Seminar in Criminal Justice	1	CJ Major Elective	3
CJ 4503 Dynamics of Criminal Behavior	3	Free Choice Elective	12
Free Choice Electives	11	Semester Total	15
Semester Total	15		

Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
CJ 3600 Introduction to CJ Research & Statistics	3	CJ 4605 Senior Seminar in Criminal Justice	1
CJ Major Elective	3	CJ Major Elective	3
Free Choice Electives	9	Free Choice Electives	10
Semester Total	15	Semester Total	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.
- 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 39 hours of free choice electives, this gives a lot of flexibility for the addition of a minor, double minor, or double major. The number of free choice electives required will vary depending on the minor chosen.
- This major does not build in the minimum number (30) of upper-level credit hours required for graduation. Be sure to include upper-level choices (3000/4000) in your major electives, general education, and/or free choice electives.
- To satisfy the General Education Assessment (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 2014 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 Technical Writing (GE)	3
General Education	12	General Education	12
Semester Total	15	Semester Total	15
AE 1400 Freshman Seminar*	1		
Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
CDM 3000 Introduction to Crisis & Disaster Management	3	CDM 3400 Community Mitigation & Recovery	3
CHEM 1103 or 1104 Intro. to the Sciences: Chemistry (GE)	3-4	Free Choice Electives	9
General Education	8-9	Semester Total	12
Semester Total	15		
Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
Major Area Course**	3	CDM 4200 Disaster Management Technology	3
Free Choice Electives	12	Major Area Course**	3
Semester Total	15	Free Choice Electives	9
		Semester Total	15
Summer - Between Junior & Senior Year	Hrs		
CDM 4900 Technology Application Studies***	3		
CDM 4990 Practicum in CDM	3		
Major Area Course**	3		
Semester Total	9		
Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
CDM 4400 Research Issues in CDM	3	CDM 4800 Integrated Emergency Management	3
CDM 4910 Field Exercise Project***	3	Free Choice Electives	9
Departmentally Approved Technical Elective	3	Semester Total	12
Free Choice Electives	3		
Semester Total	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 Undergraduate Catalog for more information.
- ***CDM 4900 and 4910 can be taken any semester after the sophomore year.
- 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.

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

This guide is valid for the 2014 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
BTE 1210 Essentials of Managing Information (GE)	2	CADD 2120 Machine Drafting*	3
CADD 1100 Orientation to Drafting*	1	CADD 2171 Introduction to MicroStation	3
CADD 1105 Basic AutoCAD	1	EASC 1004 Introduction to Geology (GE)	4
CADD 1110 Fundamentals of Drafting or CTE 1300 Introduction to Engineering Design	3	MATH 1112 College Trigonometry	2
CADD 1170 Introduction Computer-Aided Drafting	2	General Education	3
ENGL 1020 Composition I (GE)	3	Semester Total	15
MATH 1111 College Algebra (GE)	3		
Semester Total	15		
Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
CADD 2100 Sophomore Design/Drafting Seminar*	.5	CADD 2160 Structural Drafting	3
CADD 2150 Descriptive Geometry for Engin. Technology	3	CADD 2180 Technical Illustration	3
CMGT 2020 Statics	3	CTE 3060 Technical Writing (GE)	3
General Education	9	PHYS 1103 Introduction to the Sciences: Physics (GE)	3
Semester Total	15.5	General Education	3
		Semester Total	15
Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
CADD 3100 Junior Design/Drafting Seminar*	.5	CADD 3150 Civil Drafting	3
CADD 3170 Computer Drafting Systems	3	CADD 3175 Advanced MicroStation	3
ENGT 2530 Machine Tool Technology	3	CADD 4170 CADD for Engineering Technology	3
GEOG 2212 World Geography (GE)	3	Major Area Electives**	6
General Education	6	Semester Total	15
Semester Total	15.5		
Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
CADD 4100 Senior Design/Drafting Seminar*	1	CADD 4180 Industrial Design	3
IGEN 3116 Creative Problem Solving	3	INDM 4260 Organizational Dynamics or HRM 3920 Human Resource Management***	3
INDM 4250 Project Management or MGT 3315 Management of Organizations***	3	Major Area Electives**	6
SOT 3022 Internship in Technology	1	Free Choice Electives	3
SOT 4570 Computer Graphics	3	Semester Total	15
Major Area Electives**	3		
Semester Total	14		

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

- *This class is only offered the semester indicated.
- **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 Undergraduate Catalog for the list of classes required in each area.
- ***Students either take INDM 4250 and INDM 4260 or MGT 3315 and HRM 3920.
- 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 2014 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
 EHSS 111 Intro. to Health and Safety General Industry (N/A)
 ENGR 101 Introduction to Engineering Profession (ENGT 1500)
 SPDR 100 Fundamentals of Speech (COMM 1000) (GE)#
Semester Total

Hrs
 1
 1
 3
5

High School Junior Year/MCC - Fall Semester
 ETEC 152 Eng. Graphics and CADD I (CADD 1105, 1110, & 1170)
 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) (GE)
 (course not needed if tested into MATH 130 or 150)
Semester Total

Hrs
 5
 3
 3
8 or 11

High School Junior Year/MCC - Spring Semester
 ETEC 265 Introduction to Civil Design (CADD 3150)
 ETEC 269 CADD II (CADD 1170)##
 MATH 130 Trigonometry (MATH 1112) or MATH 150 Precalculus (MATH 1150)
Semester Total

Hrs
 3
 4
 3 or 5
10 or 12

High School Senior Year/MCC - Summer Semester
 ETEC 170 Microstation (CADD 2171)
 ETEC 290 Internship (N/A)
Semester Total

Hrs
 3
 3
6

High School Senior Year/MCC - Fall Semester
 CSIS 110 Technology and Information Mgmt. (BTE 1210) (GE)
 ENGL 101 Composition and Reading I (ENGL 1020) (GE)
 ETEC 153 Descriptive Geometry (N/A)###
 PHYS 130 General Physics (PHYS 1101) (GE)+
Semester Total
(must have completed MATH 130 or 150 by this semester)

Hrs
 3
 3
 4
 5
15

High School Senior Year/MCC - Spring Semester
 ENGL 215 Technical Writing (CTE 3060) (GE)
 ETEC 200 Applied Statics and Mechanics (CMGT 2020)
 ETEC 210 Commercial Design (N/A)++
 SRVY 135 Elementary Surveying (N/A)+++
Semester Total
(graduate from high school this semester)

Hrs
 3
 3
 3
 3
12

MCC Junior Year - Summer Semester
 ETEC 211 Building Information Modeling, Revit (N/A)*
 ETEC 268 (CADD 2160)
Semester Total

Hrs
 3
 3
6

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)
 General Education
Semester Total
(graduate from MCC with A.A.S. degree this semester)

Hrs
 3
 4
 5
 3
15

UCM Junior Year - Spring Semester
 CADD 3170 Computer Drafting Systems
 CADD 3175 Advanced MicroStation
 ENGT 2530 Machine Tool Technology
 General Education
Semester Total

Hrs
 3
 3
 3
 6
15

UCM Senior Year - Summer Semester
 SOT 4570 Computer Graphics
Semester Total

Hrs
 3
3

UCM Senior Year - Fall Semester
 CADD 4170 CADD for Engineering Technology
 GEOG 2212 World Geography (GE)
 IGEN 3116 Creative Problem Solving
 General Education
Semester Total

Hrs
 3
 3
 3
 6
15

UCM Senior Year - Spring Semester
 CADD 4180 Industrial Design
 INDM 4260 Organizational Dynamics or
 HRM 3920 Human Resource Management****
 INDM 4250 Project Management or
 MGT 3315 Management of Organizations****
 SOT 3022 Internship in Technology
 Upper-Level Free Choice Electives ^
Semester Total

Hrs
 3
 3
 3
 3
 1-3
 3-5
15

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

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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.
- 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

- #After summer 2014, this class will become SPDR 102.
- ##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 MGT 3315 and HRM 3920 OR INDM 4250 and INDM 4260.
- ^ 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.

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

This guide is valid for the 2014 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)#	4
D&N 1300 Introduction to Dietetics#	1
ENGL 1020 Composition I (GE)	3
PSY 1100 General Psychology (GE)#	3
General Education Managing Information	2-3
Semester Total	13-14
AE 1400 Freshman Seminar*	1

Freshman Year - Spring Semester

MATH 1111 College Algebra (GE)#	3
PE 2472 Communicating Ideas on Sport (GE)#	3
SOC 1800 General Sociology (GE)#	3
General Education	6
Semester Total	15

Sophomore Year - Fall Semester

BIOL 3401 Human Anatomy#	3
FOOD 2320 Sanitation and Safety#	1
FOOD 2322 Food Preparation#	3
HIST 1350 or 1351 US History	3
General Education	6
Semester Total	16

Sophomore Year - Spring Semester

ACCT 2100 Survey of Accounting#	3
BIOL 3402 Human Physiology#	5
CTE 3060 Technical Writing (GE)#	3
D&N 3340 Nutrition#	3
Free Choice Elective	3
Semester Total	17

Junior Year - Fall Semester

BIOL 3611 Microbiology#	4
FOOD 3332 Quantity Food Production & Service#	3
FOOD 3333 Food Systems Management#**	3
Free Choice Electives	6
Semester Total	16

Junior Year - Spring Semester

CHEM 1604 Elementary Organic & Biochemistry#	4
FOOD 3334 Advanced Food Systems Management#**	3
PSY 4520 Statistics for the Behavioral Sciences#	3
Free Choice Electives	4-5
Semester Total	14-15

Senior Year - Fall Semester

D&N 4340 Advanced Nutrition#**	3
D&N 4342 Medical Nutrition I#***	3
D&N 4345 Senior Dietetics Seminar#**	3
FOOD 4326 Experimental Foods#	3
Semester Total	12

Senior Year - Spring Semester

BIOL 2510 Basic Genetics (GE)#	3
D&N 3350 Community Nutrition#	3
D&N 4343 Medical Nutrition II#**	3
D&N 4344 Nutrition Education & Counseling#**	2
Free Choice Elective	5
Semester Total	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.
- 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 2014 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
COMM 1000 Public Speaking (GE)	3	COMM 2100 Introduction to Communication Theory	3
COMM 1100 Introduction to Communication	1	COMM 2200 Writing Across the Media	3
COMM 1200 Introduction to Mass Communication (GE)		ENGL 1030 Composition II or CTE 3060 Technical Writing (GE)	3
(required GE for students doing Audio and Live Studio and Remote Production major areas) or General Education	3	MUS 1450 Audio and Acoustics (GE) (required GE for students doing Audio and Digital Journalism major areas) or General Education	3
COMM 1275 Introduction to Media Technology	1	General Education	3
ENGL 1020 Composition I (GE)	3	Semester Total	15
General Education	3		
Semester Total	14		
Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
COMM 2250 Media Aesthetics	3	COMM 2411 Audio Production	3
COMM 2410 Multimedia Production	3	Major Area Course*	3
COMM 3100 Communication Research Methods	3	General Education	9
Major Area Course*	3	Semester Total	15
General Education	3		
Semester Total	15		
Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
COMM 2412 Introduction to Digital Video	3	COMM 2000 Media Literacy (GE)	3
COMM 3000 Film Appreciation (GE)	3	Major Area Course*	3
Major Area Course*	3	Free Choice Electives	9
General Education	3	Semester Total	15
Free Choice Electives	3		
Semester Total	15		
Summer - Between Junior/Senior Year	Hrs		
COMM 3200 Digital Media Practicum or COMM 4295 Internship**	3		
Semester Total	3		
Senior Year- Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
COMM 4250 The Law & Digital Media	3	COMM 4490 Senior Capstone Seminar***	1
Major Area Course*	3	Major Area Course*	6
Free Choice Electives	9	Free Choice Electives	6
Semester Total	15	Semester Total	13

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

- *Students will choose a major area (21 credit hours) from: Audio, Live Studio and Remote Production, Digital Cinema, or Digital Journalism. See the 2014 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.
- See the 2014 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 2014 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
EASC 1004 Introduction to Geology (GE)	4	BIOL 1112 Animal Biology	4
ENGL 1020 Composition I (GE)	3	EASC 1114 or GEOG 1114 Weather and Climate	4
General Education MATH	3	ENGL 1030 Composition II or CTE 3060 Technical Writing (GE)	3
General Education	6	HIST 1350 or HIST 1351 History of the United States (GE)	3
Semester Total	16	Semester Total	14
AE 1400 Freshman Seminar*	1		

Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
EASC 2200 Historical Geology**	4	EASC 3112 Astronomy	3
CHEM 1131 General Chemistry I (GE)	5	EASC 3115 Oceanography	3
POLS 1510 American Government (GE)	3	EDFL 2100 Foundations of Education	2
General Education Managing Information	2-3	FLDX 2150 Introductory Field Experience	1
Semester Total	14-15	EDFL 2240 Educational Psychology (GE)	3
		General Education	3
		Semester Total	15
		<i>(Successfully complete MoGEA exam by end of this semester)</i>	

Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
EASC 2100 Engineering Geology or EASC 3501 Invertebrate Paleontology** or EASC 4300 Earth Resources	4	BIOL 4102 Evolution	3
PHYS 1101 College Physics I or PHYS 1104 Introduction to the Sciences: Physics	4	EASC 3010 Environmental Geology	3
EDSP 2100 Education of Exceptional Child	2	PSY 4230 Psychology of Adolescence	3
Area 1 Major Elective***	3	EDFL 4210 The Teaching of Reading in the Secondary School	2
General Education	3	EDFL 4300 Educational Measurement & Evaluation	2
Semester Total	16	Area 1 Major Elective***	3-4
		Semester Total	16-17

Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
EDFL 3500 Secondary Teaching & Behavioral Management	3	FLDX 4595 Student Teaching Secondary I	5
FLDX 3550 Practicum in Secondary Instruction	1	FLDX 4468 Student Teaching Secondary II	4
STCH 4050 Science Teaching Methods	3	STCH 4080 Teaching Secondary Science	3
Area 1 Major Elective***	3	Semester Total	12
General Education	3		
Free Choice Electives#	2-4		
Semester Total	15-17		

Earth Science Major, Area 1: Standard Earth Science Certificate; B.S. in Ed. Degree - 120 hours

- *AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective, however this major does not require any free choice electives.
- **These courses are offered in alternate Fall semesters - if one is not available, take the other.
- ***Students must choose 9 hour of Area 1 Major Electives from the following list: any course with a BIOL, CHEM, EASC, or PHYS prefix, AGRI 2330 Introduction to Soil Science, GEOG 4280 Natural Disasters, or GEOG 4291 Conservation of Natural Resources.
- #The number of free choice electives required will depend on choices in the General Education Managing Information class and major electives.
- The Missouri General Education Assessment (MoGEA) is an exam required of all Teacher Education students. Students must pass all five 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.
- 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 2014 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
<i>EASC 1004 Introduction to Geology (GE)</i>	4	BIOL 1112 Animal Biology	4
<i>ENGL 1020 Composition I (GE)</i>	3	EASC 1114 or GEOG 1114 Weather and Climate	4
<i>General Education MATH</i>	3	<i>ENGL 1030 Composition II or CTE 3060 Technical Writing (GE)</i>	3
General Education	6	HIST 1350 or HIST 1351 History of the United States (GE)	3
Semester Total	16	General Education Managing Information	2-3
AE 1400 Freshman Seminar*	1	Semester Total	16-17

Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
CHEM 1131 General Chemistry I (GE)	5	CHEM 1132 General Chemistry II	5
EASC 2200 Historical Geology**	4	EASC 3115 Oceanography	3
EASC 3112 Astronomy	3	EDFL 2100 Foundations of Education	2
<i>POLS 1510 American Government (GE)</i>	3	FLDX 2150 Introductory Field Experience	1
Semester Total	15	EDFL 2240 Educational Psychology (GE)	3
		<i>General Education</i>	3
		Semester Total	17
		<i>(Successfully complete MoGEA exam by end of this semester)</i>	

Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
EASC 2100 Engineering Geology or EASC 3501 Invertebrate Paleontology** or EASC 4300 Earth Resources	4	BIOL 4102 Evolution	3
EDSP 2100 Education of Exceptional Child	2	EASC 3010 Environmental Geology	3
PHYS 1101 College Physics I or PHYS 2121 University Physics I	4-5	EDFL 4210 The Teaching of Reading in the Secondary School	2
General Education	3	EDFL 4300 Educational Measurement & Evaluation	2
Semester Total	13-14	PHYS 1102 College Physics II or PHYS 2122 University Physics II	4-5
		PSY 4230 Psychology of Adolescence	3
		Semester Total	17-18

Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
BIOL 1111 Plant Biology	4	FLDX 4595 Student Teaching Secondary I	5
EDFL 3500 Secondary Teaching & Behavioral Management	3	FLDX 4468 Student Teaching Secondary II	4
FLDX 3550 Practicum in Secondary Instruction	1	STCH 4080 Teaching Secondary Science	3
STCH 4050 Science Teaching Methods	3	Semester Total	12
General Education	3		
Semester Total	14		

Earth Science Major, Area 2: Earth Science - Unified Science Certificate; B.S. in Ed. Degree - 120-122 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.
- **These courses are offered in alternate Fall semesters - if one is not available, take the other.
- The Missouri General Education Assessment (MoGEA) is an exam required of all Teacher Education students. Students must pass all five 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.
- 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 2014 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
CIS 1600 Business Information Management (GE)*	3	COMM 1000 Public Speaking or COMM 1050 Fundamentals of Oral Communication Competency (GE)	3
ECON 1010 Principles of Macroeconomics (GE)*	3	ECON 1011 Principles of Microeconomics*	3
ENGL 1020 Composition I (GE)	3	ENGL 1030 Composition II or CTE 3060 Technical Writing (GE)	6
MATH 1111 College Algebra (GE)*	3	General Education	6
General Education	3	Semester Total	15
Semester Total	15		
AE 1400 or BADM 1400 Freshman Seminar**	1		
Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
ACCT 2101 Principles of Financial Accounting*	3	ACCT 2102 Principles of Managerial Accounting*	3
BLAW 2720 Legal Environment of Business*	3	FIN 2801 Business Statistics I*	3
General Education	9	General Education	7
Semester Total	15	Free Choice Electives	2
		Semester Total	15
		Note: Complete all B.S.B.A. admission requirements.*	
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 Production/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	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 or BADM 1400 (1 hr.) are free choice electives and are highly recommended for academic success. If AE 1400 or BADM 1400 is chosen, 1 less hour of free choice electives will be needed.
- ***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.
- 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 2014 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	CTE 3060 Technical Writing (GE)	3
ET 1026 DC Circuit Analysis*	4	ET 1027 AC Circuit Analysis*	4
ET 1050 Digital Principles & Applications*	4	ET 2048 Active Electronic Devices*	4
MATH 1111 College Algebra (GE)	3	MATH 1112 College Trigonometry or TECH 1042 Technical Mathematics II	2-3
General Education Managing Information	2	Semester Total	13-14
Semester Total	16		
AE 1400 Freshman Seminar**	1		
Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
CHEM 1103 Introduction to the Sciences: Chemistry (GE)	3	COMM 1000 Public Speaking (GE)	3
ET 2060 Microprocessors: Theory & Applications*	4	ET 2065 Computer Programming for Electronics Technology*	4
ET 3020 Circuit Analysis & Implementation*	4	PHYS 1104 Introduction to the Sciences: Physics (GE)	4
MATH 1131 Applied Calculus or TECH 2040 Calculus for Technology	3	General Education	3
Semester Total	14	Semester Total	14
Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
ET 3017 Industrial Electronics*	4	ET 3014 Analog-Digital Circuitry*	4
ET 3041 Communication Systems*	4	IGEN 3116 Creative Problem Solving or	
MGT 3315 Management of Organizations or INDM 4210 Industrial Management	3	ENGT 4110 Engineering Technology Problem Solving	3
General Education	3	Departmentally Approved Area 1 Electives***	3
Semester Total	14	General Education	6
 		Semester Total	16
Junior Year - Summer Semester	Hrs		
SOT 3022 Internship in Technology	3		
Semester Total	3		
Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
Departmentally Approved Area 1 Elective***	3	Departmentally Approved Area 1 Elective***	8-9
Departmentally Approved Area 1 Management Elective#	3	Free Choice Electives	6
General Education	9	Semester Total	14-15
Semester Total	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.
- #See department chairperson for appropriate choices for the Management Elective.
- 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 2014 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	CTE 3060 Technical Writing (GE)	3
ET 1026 DC Circuit Analysis*	4	ET 1027 AC Circuit Analysis*	4
ET 1050 Digital Principles & Applications*	4	ET 2048 Active Electronic Devices*	4
MATH 1111 College Algebra (GE)	3	NET 1058 Computer Technologies*	3
General Education Managing Information	2	Semester Total	14
Semester Total	16		
AE 1400 Freshman Seminar**	1		
Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
COMM 1000 Public Speaking (GE)	3	ET 2065 Computer Programming For Electronics Technology*	4
CHEM 1103 Introduction to the Sciences: Chemistry (GE)	3	NET 2060 Switching Basics and Intermediate Routing*	3
ET 2060 Microprocessors: Theory & Applications*	4	NET 2061 WAN Technologies*	3
NET 1060 Introduction to Networking Basics*	3	PHYS 1104 Introduction to the Sciences: Physics (GE)	4
NET 1061 Routers & Routing Basics*	3	Semester Total	14
Semester Total	16		
Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
NET 4060 Advanced Network Routing*	3	IGEN 3116 Creative Problem Solving or	
Area 2 Major Departmentally Approved Elective#	2	ENGT 4110 Engineering Technology Problem Solving	3
General Education	9	NET 3068 Network Security I	4
Semester Total	14	NET 4040 Fundamentals of Network Operating Systems or	
		NET 3000 Fundamentals of Wireless Networks***	3
		General Education	6
		Semester Total	16
Junior Year - Summer Semester	Hrs		
SOT 3022 Internship in Technology	3		
Semester Total	3		
Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
NET 4042 Network Servers and Services or		NET 4043 Network Servers and Infrastructure or	
NET 3062 Network Design***	3	NET 4064 Advanced Network Design***	3
NET 4062 Advanced Switching*	3	NET 4063 Network Support*	3
Area 2 Major Departmentally Approved Elective#	3	Free Choice Electives	6
General Education	6	Semester Total	12
Semester Total	15		

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. Five hours are required.
- 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.

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

This guide is valid for the 2014 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
Semester Total

Hrs
 3
 3
 9
15

Freshman Year - Spring Semester
ENGL 1030 Composition II or CTE 3060 Technical Writing (GE)
 HIST 1350 or 1351 History of the United States (GE)
MATH 1620 Contemporary Math (GE)
General Education Science w/lab
 General Education Managing Information
Semester Total

Hrs
 3
 3
 3
 4
 2-3
15-16

Sophomore Year - Fall Semester
 CFD 1220 Child Development
 D&N 2310 Early Childhood Nutrition & Health
 EDFL 2100 Foundations of Education
 FLDX 2150 Introductory Field Experience
 EDFL 2240 Educational Psychology (GE)
 EDSP 2100 Education of the Exceptional Child
 MATH 1820 Introduction to Mathematical Modeling (GE)
Semester Total

Hrs
 3
 2
 2
 1
 3
 2
 3
16

Sophomore Year - Spring Semester
 ART 3910 Art for Elementary Schools
 ECEL 1310 or 1320 Science for Teachers
 ECEL 2830 Early Childhood Principles
 ECEL 2110 Diversity and Social Justice (GE)
 EDFL 3410 Children's Literature
 PE 2410 Movement Skills & Activities for Primary Grades General Education
Semester Total
(Successfully complete MoGEA exam by end of this semester)

Hrs
 2
 3
 3
 3
 2
 2
 3
18

Junior Year - Fall Semester
 CD 2000 Bases of Speech & Language#
 ECEL 3260 Practicum in Child Development#
 ECEL 3850 Development & Learning Through Play#
 ECEL 3220 The Teaching of Language Arts#
 EDFL 3210 Methods of Reading Instruction#
 MATH 3800 Introduction to Elementary & M.S. Math#
 MATH 3801 Conc. & Meth. in Elementary School Math#
Semester Total

Hrs
 2
 1
 3
 3
 3
 2
 3
17

Junior Year - Spring Semester
 ECEL 2310 Computer/Technology in Education#
 ECEL 3420 Teaching Social Studies & Economics#
 EDSP 3150 Community & Family Resources
 EDSP 3151 Community & Family Resources Practicum
 EDSP 4370 Screening, Diagnosing, & Prescribing Instruction#
 HED 3310 Methods in Elementary School Health
 MUS 3301 Music for Elementary Schools
 PSY 2220 Child Psychology or PSY 3220 Lifespan Development
Semester Total

Hrs
 2
 3
 2
 1
 3
 2
 2
 3
18

Senior Year - Fall Semester
 CFD 3250 Org. & Admin. of Programs for Young Children
 ECEL 3468 Community, School, & Family Connections
 ECEL 4350 Elementary Science Teaching Strategies#
 ECEL 4400 Classroom Management & Interactions*
 ECEL 4830 Early Childhood Curriculum#
 HED 4330 First Aid and CPR
Semester Total

Hrs
 3
 3
 3
 3
 3
 1
16

Senior Year - Spring Semester**
 ECEL 4150 Student Teaching Professional Seminar
 FLDX 4493 Student Teaching Early Childhood
 FLDX 4496 Student Teaching Elementary II
Semester Total

Hrs
 2
 6
 4
12

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

- *A grade of C or higher is required in all professional education courses including ECEL 4400 for departmental recommendation for student teaching.
- **The courses listed for this semester constitute the professional education (student teaching) block. The student should not take any other courses during this semester.
- #There may be an option for students to pursue a Clinical Pathway experience; a series of field-embedded blocks during Junior and Senior years in which all the teaching methods courses are tied to elementary classroom practica. To be eligible for the Clinical Pathway, students need to maintain a strong GPA; complete the majority of general education courses; complete EDFL 2100, 2240, FLDX 2150; and pass the Entry Level General Knowledge and Skills Assessment (or scores in progress) by the end of Sophomore Year. Students do not take any of the methods courses prior to Junior year. Methods courses are indicated by a #.
- The Missouri General Education Assessment (MoGEA) is an exam required of all Teacher Education students. Students must pass all five 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.
- 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), Clinical Pathways, B.S. in Ed. Degree (41-286)

This guide is valid for the 2014 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.

<p>Freshman Year - Fall Semester ENGL 1020 Composition I (GE) POLS 1510 American Government (GE) General Education Semester Total</p>	<p>Hrs 3 3 9 15</p>	<p>Freshman Year - Spring Semester ENGL 1030 Composition II or CTE 3060 Technical Writing (GE) HIST 1350 or 1351 History of the United States (GE) MATH 1620 Contemporary Math (GE) General Education Science w/lab General Education Managing Information Semester Total</p>	<p>Hrs 3 3 3 4 2-3 15-16</p>
<p>Sophomore Year - Fall Semester CFD 1220 Child Development D&N 2310 Early Childhood Nutrition & Health EDFL 2100 Foundations of Education FLDX 2150 Introductory Field Experience EDFL 2240 Educational Psychology (GE) EDSP 2100 Education of the Exceptional Child MATH 1820 Introduction to Mathematical Modeling (GE) Semester Total</p>	<p>Hrs 3 2 2 1 3 2 3 16</p>	<p>Sophomore Year - Spring Semester ART 3910 Art for Elementary Schools ECEL 1310 or 1320 Science for Teachers ECEL 2830 Early Childhood Principles and Observation ECEL 2110 Diversity and Social Justice (GE) EDFL 3410 Children's Literature PE 2410 Movement Skills & Activities for Primary Grades General Education Semester Total <i>(Successfully complete MoGEA exam by end of this semester)</i></p>	<p>Hrs 2 3 3 3 2 2 3 18</p>
<p>Junior Year - Fall Semester - Jr. Block 1 - 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 MUS 3301 Music for Elementary Schools PSY 2220 Child Psychology or PSY 3220 Lifespan Development Semester Total</p>	<p>Hrs 2 2 1 2 1 1 1 2 3 15</p>	<p>Junior Year - Spring Semester - Jr. Block 2 - 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 Economics 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 EDSP 3150 Community & Family Resources EDSP 3151 Community & Family Resources Practicum HED 3310 Methods in Elementary School Health Semester Total</p>	<p>Hrs 2 2 1 1 2 3 2 1 2 16</p>
<p>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 HED 4330 First Aid and CPR ECEL 3468 Community, School, & Family Connections Semester Total</p>	<p>Hrs 3 5 3 1 1 3 16</p>	<p>Senior Year - Spring Semester** ECEL 4150 Student Teaching Professional Seminar FLDX 4493 Student Teaching Early Childhood FLDX 4496 Student Teaching Elementary II Semester Total</p>	<p>Hrs 2 6 4 12</p>

Elementary Education Major (Birth - Grade 3), Clinical Pathways, B.S. in Ed. Degree - 123 hours

- *A grade of C or higher is required in all professional education courses including ECEL 4400 for departmental recommendation for student teaching.
- **The courses listed for this semester constitute the professional education (student teaching) block. The student should not take any other courses during this semester.
- Courses in italics are the Clinical Pathways 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 five 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.
- 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), Traditional Pathway, B.S. in Ed. Degree (41-285)

This guide is valid for the 2014 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
<i>ENGL 1020 Composition I</i>	3	<i>ENGL 1030 Composition II or CTE 3060 Technical Writing (GE)</i>	3
<i>MATH 1620 Contemporary Math</i>	3	HIST 1350 or 1351 History of the United States (GE)	3
<i>POLS 1510 American Government (GE)</i>	3	MATH 1820 Introduction to Mathematical Modeling (GE)	3
General Education	6	<i>General Education Science w/lab</i>	4
Semester Total	15	General Education Managing Information	2-3
		Semester Total	15-16

Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
ECEL 2110 Diversity and Social Justice (GE)	3	ECEL 1310 or 1320 Science for Teachers	3
EDFL 2240 Educational Psychology (GE)	3	PE 3420 Elementary School PE Activities	2
EDFL 2100 Foundations of Education	2	Teaching area of concentration*	6
FLDX 2150 Introductory Field Experience	1	General Education	6
EDSP 2100 Education of Exceptional Child	2	Semester Total	17
Teaching area of concentration*	3	<i>(Successfully complete MoGEA exam by end of this semester)</i>	
Semester Total	14		

Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
ECEL 3220 The Teaching of Language Arts#	3	ART 3910 Art for Elementary Schools	2
EDFL 3210 Methods of Reading Instruction#	3	ECEL 3420 Teaching Social Studies & Economics#	3
EDFL 3410 Children's Literature	2	EDFL 3215 Reading in the Content Fields#	3
MATH 3800 Intro. to Teaching Elementary & M.S. Math#	2	HED 3310 Methods in Elementary School Health	2
MATH 3801 Concepts & Methods in Elementary Sch. Math#	3	MUS 3301 Music for Elementary Schools	2
Teaching area of concentration*	3	PSY 2220 Child Psychology or PSY 3220 Lifespan Development	3
Semester Total	16	Teaching area of concentration*	3
		Semester Total	18

Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester +	Hrs
ECEL 2310 Computer/Technology in Education#	2	ECEL 4150 Student Teaching Professional Seminar	2
ECEL 4350 Elementary Science Teaching Strategies#	3	FLDX 4495 Student Teaching Elementary I	6
ECEL 4400 Classroom Management & Interactions**	3	FLDX 4496 Student Teaching Elementary II	4
EDFL 4220 Analysis & Correction of Reading Disabilities#	2	Semester Total	12
EDFL 4250 Practicum in Reading#	1		
HED 4330 First Aid & CPR	1		
ECEL 3468 Community, School, and Family Connections	3		
Semester Total	15		

Elementary Education Major (Grades 1 - 6), Traditional Pathway, B.S. in Ed. Degree - 122 hours

- *A second approved area of concentration in a teaching/specialty area is required for Elementary (Grades 1-6) majors. Select 15 hours of coursework from one of the following approved areas of concentration: Art, English, Instructional Technology, Mathematics, Science, Social Studies, and Speech Communication/Theatre.
- *For Elementary Education (Grades 1-6) majors, one of the following areas may be completed as a second area of certification in lieu of choosing a 15 hour area of concentration. These range in hours from 22 to 27. Students may choose from Early Childhood Birth-Grade 3, Family and Consumer Science B-12, Special Education Cross-Cat K-12, or Modern Language (FREN, GER, SPAN) K-12. If students would like to add a Middle School endorsement (9 hours) they will need to choose from Math, Science, Social Studies, Speech/Comm Theatre. See your academic advisor for requirements.
- **A grade of C or higher is required in all professional education courses including ECEL 4400 for departmental recommendation for student teaching.
- +The courses listed for this semester constitute the professional education (student teaching) block. The student should not take any other courses during this semester.
- #There may be an option for students to pursue a Clinical Pathway experience; a series of field-embedded blocks during Junior and Senior years in which all the teaching methods courses are tied to elementary classroom practica. To be eligible for the Clinical Pathway, students need to maintain a strong GPA; complete the majority of general education courses; complete EDFL 2100, 2240, FLDX 2150; and pass the Entry Level General Knowledge and Skills Assessment (or scores in progress) by the end of Sophomore Year. Students do not take any of the methods courses prior to Junior year. Methods courses are indicated by a #.
- The Missouri General Education Assessment (MoGEA) is an exam required of all Teacher Education students. Students must pass all five 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.
- 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), Clinical Pathways, B.S. in Ed. Degree (41-285)

This guide is valid for the 2014 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
<i>ENGL 1020 Composition I (GE)</i>	3	<i>ENGL 1030 Composition II or CTE 3060 Technical Writing (GE)</i>	3
<i>MATH 1620 Contemporary Math (GE)</i>	3	HIST 1350 or 1351 History of the United States (GE)	3
<i>POLS 1510 American Government (GE)</i>	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	2-3
		Semester Total	15-16

Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
ECEL 2110 Diversity and Social Justice (GE)	3	ART 3910 Art for Elementary Schools	2
EDFL 2240 Educational Psychology (GE)	3	ECEL 1310 or 1320 Science for Teachers	3
EDFL 2100 Foundations of Education	2	Teaching area of concentration*	6
FLDX 2150 Introductory Field Experience	1	General Education	6
EDSP 2100 Education of Exceptional Child	2	Semester Total	17
PE 3420 Elementary School PE Activities	2	<i>(Successfully complete MoGEA exam by end of this semester)</i>	
Teaching area of concentration*	3		
Semester Total	16		

Junior Year - Fall Semester - Junior Block 2 - YL Grades 1-3	Hrs	Junior Year - Spring Semester - Junior Block 3 - IL Grades 4-6	Hrs
<i>ECEL 3151 Young Learner Practicum (Grades 1-3)</i>	2	<i>ECEL 3152 Intermediate Learner Practicum Grades 4-6</i>	2
<i>ECEL 3310 Literacy and Communication Arts for the YL</i>	2	<i>ECEL 3320 Literacy and Communication Arts for the IL</i>	2
<i>ECEL 3510 Social Studies and Economics for the Young Learner</i>	1	<i>ECEL 3520 Social Studies and Economics for the IL</i>	1
<i>ECEL 3610 Science for the Young Learner</i>	1	<i>ECEL 3620 Science for the Intermediate Learner</i>	1
<i>MATH 3810 Math for the Young Learner</i>	2	MATH 3820 Mathematics for the Intermediate Learner	2
HED 3310 Methods in Elementary School Health	2	MUS 3301 Music for Elementary Schools	2
EDFL 3410 Children's Literature	2	PSY 2220 Child Psychology or PSY 3220 Lifespan Development	3
Teaching area of concentration**	3	Teaching area of concentration**	3
Semester Total	15	Semester Total	16

Senior Year - Fall Semester - Senior Block 1 - Senior Experience	Hrs	Senior Year - Spring Semester +	Hrs
<i>ECEL 4120 Curriculum Design and Assessment</i>	3	ECEL 4150 Student Teaching Professional Seminar	2
<i>ECEL 4140 Communication Arts Integration</i>	5	FLDX 4495 Student Teaching Elementary I	6
<i>ECEL 4400 Classroom Management & Interactions*</i>	3	FLDX 4496 Student Teaching Elementary II	4
MATH 4800 Curriculum Design and Assessment in Math	1	Semester Total	12
HED 4330 First Aid and CPR	1		
ECEL 3468 Community, School, & Family Connections	3		
Semester Total	16		

Elementary Education Major (Grades 1 - 6), Clinical Pathways, B.S. in Ed. Degree - 122 hours

- *A second approved area of concentration in a teaching/specialty area is required for Elementary (Grades 1-6) majors. Select 15 hours of coursework from one of the following approved areas of concentration: Art, English, Instructional Technology, Mathematics, Science, Social Studies, and Speech Communication/Theatre.
- *For Elementary Education (Grades 1-6) majors, one of the following areas may be completed as a second area of certification in lieu of choosing a 15 hour area of concentration. These range in hours from 22 to 27. Students may choose from Early Childhood Birth-Grade 3, Family and Consumer Science B-12, Special Education Cross-Cat K-12, or Modern Language (FREN, GER, SPAN) K-12. If students would like to add a Middle School endorsement (9 hours) they will need to choose from Math, Science, Social Studies, Speech/Comm Theatre. See your academic advisor for requirements.
- • ***A grade of C or higher is required in all professional education courses including ECEL 4400 for departmental recommendation for student teaching.
- +The courses listed for this semester constitute the professional education (student teaching) block. The student should not take any other courses during this semester.
- Courses in italics are the Clinical Pathways 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 five 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.
- 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)

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<p>Freshman Year - Fall Semester</p> <p>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</p>	<p>Hrs</p> <p>3 1 4 4 2 14</p>	<p>Freshman Year - Spring Semester</p> <p>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 or ENGT 1120 Welding ET 1027 AC Circuit Analysis* MATH 1131 Applied Calculus (GE) Semester Total</p>	<p>Hrs</p> <p>1 3 3 3 4 3 17</p>
<p>Sophomore Year - Fall Semester</p> <p>ECON 1010 Principles of Macroeconomics (GE) ENGT 1501 Seminar in Engineering Technology ET 1050 Digital Principles & Applications* PHYS 1101 College Physics I (GE) General Education Managing Information Semester Total</p>	<p>Hrs</p> <p>3 1 4 4 2-3 14-15</p>	<p>Sophomore Year - Spring Semester</p> <p>CHEM 1103 Introduction to the Sciences: Chemistry (GE) COMM 1000 Public Speaking (GE) ET 2048 Active Electronic Devices* ET 2065 Computer Programming for Electronics Tech.* Semester Total</p>	<p>Hrs</p> <p>3 3 4 4 14</p>
<p>Junior Year - Fall Semester</p> <p>ENGT 1501 Seminar in Engineering Technology ENGT 3520 Engineering Economy ET 2060 Microprocessors: Theory & Applications* ET 3017 Industrial Electronics* General Education Semester Total</p>	<p>Hrs</p> <p>1 3 4 4 3 15</p>	<p>Junior Year - Spring Semester</p> <p>ENGT 4580 Quality Systems ET 3014 Analog-Digital Circuitry* General Education Semester Total</p>	<p>Hrs</p> <p>3 4 9 16</p>
<p>Junior Year - Summer Semester</p> <p>SOT 3022 Internship in Technology Semester Total</p>	<p>Hrs</p> <p>3 3</p>		
<p>Senior Year - Fall Semester</p> <p>ENGT 4520 Robotics and Automation ET 3020 Circuit Analysis & Implementation* ET 3041 Communication Systems* Departmentally Approved Option 1 Elective*** Semester Total</p>	<p>Hrs</p> <p>3 4 4 3 14</p>	<p>Senior Year - Spring Semester</p> <p>ENGT 3530 Inspection and Quality Control ENGT 4110 Engineering Technology Problem Solving CMGT 3320 Principles of Construction Management or INDM 4250 Project Management General Education Semester Total</p>	<p>Hrs</p> <p>3 3 3 3 6 15</p>

Engineering Technology, Option 1 (Electronics 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.
- ***See departmental advisor for course recommendations.
- 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 2014 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
CADD 1105 Basic AutoCAD	1	CADD 2120 Machine Drafting*	3
CADD 1170 Introduction to Computer-Aided Drafting	2	ENGL 1020 Composition I (GE)	3
CADD 1110 Fundamentals of Drafting or CTE 1300 Introduction to Engineering Design	3	ENG 1510 Introduction to Manufacturing Processes*	3
ENGT 1000 Principles of Engineering or ENGT 1120 Welding	3	ET 1010 Applied Electricity	4
ENGT 1500 Orientation to Engineering Technology*	1	MATH 1131 Applied Calculus (GE)	3
MATH 1112 College Trigonometry**	2	Semester Total	16
General Education Managing Information	2-3		
Semester Total	14-15		

Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
CMGT 2020 Statics	3	CADD 4170 CAD & Design for Engineering Technology	3
ENGT 1501 Seminar in Engineering Technology	1	CHEM 1103 Introduction to the Sciences: Chemistry (GE)	3
ENGT 2040 Engineering Materials Science	4	CMGT 3020 Applied Strength of Materials	3
ENGT 2530 Machine Tool Technology	3	COMM 1000 Public Speaking (GE)	3
PHYS 1101 College Physics I (GE)	4	ECON 1010 Principles of Macroeconomics (GE)	3
Semester Total	15	Semester Total	15

Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
CADD 4171 Production Design Drafting*	3	CADD 4124 Geometric Dimen. & Toler. for Engineering Tech.*	3
CTE 3060 Technical Writing (GE)	3	CADD 4174 Machine Design*	3
ENGT 1501 Seminar in Engineering Technology	1	ENG 3530 Inspection and Quality Control	3
ENGT 2600 Lean Enterprises	3	ENGT 3562 Computer Numerical Control (CNC)	3
ENGT 3520 Engineering Economy	3	General Education	3
General Education	3	Semester Total	15
Semester Total	16		

Junior Year - Summer Semester	Hrs
SOT 3022 Internship in Technology	3
Semester Total	3

Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
ATM 4032 Hydraulics & Pneumatics	3	ENGT 4110 Engineering Technology Problem Solving	3
CMGT 3320 Principles of Construction Management or INDM 4250 Project Management	3	ENGT 4580 Quality Systems	3
General Education	9	Departmentally Approved Option 2 Elective***	3
Semester Total	15	General Education	3
		Semester Total	12

Engineering Technology, Option 2 (Mechanical Engineering Technology - Product Design) 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.
- ***See departmental advisor for course recommendations.
- 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)

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Freshman Year - Fall Semester		Hrs	Freshman Year - Spring Semester		Hrs
ENGL 1020 Composition I (GE)		3	CADD 1105 Basic AutoCAD		1
ENGT 1120 Welding		3	CADD 1110 Fundamentals of Drafting or		
ENGT 1500 Orientation to Engineering Technology*		1	CTE 1300 Introduction to Engineering Design		3
ENGT 1510 Introduction to Manufacturing Processes		3	CTE 3060 Technical Writing (GE)		3
MATH 1112 College Trigonometry**		2	ENGT 2040 Engineering Materials Science		4
General Education		3	ENGT 2530 Machine Tool Technology		3
Semester Total		15	MATH 1131 Applied Calculus (GE)		3
			Semester Total		17

Sophomore Year - Fall Semester		Hrs	Sophomore Year - Spring Semester		Hrs
COMM 1000 Public Speaking (GE)		3	CADD 2120 Machine Drafting (prerequisite of CADD 1170 will be waived)		3
ENGT 1501 Seminar in Engineering Technology		1	CHEM 1103 Introduction to the Sciences: Chemistry (GE)		3
ENGT 2600 Lean Enterprises		3	ECON 1010 Principles of Macroeconomics (GE)		3
ET 1010 Applied Electricity		4	ENGT 3530 Inspection & Quality Control*		3
PHYS 1101 College Physics I (GE)		4	ENGT 3562 Computer Numerical Control (CNC)*		3
Semester Total		15	Semester Total		15

Junior Year - Fall Semester		Hrs	Junior Year - Spring Semester		Hrs
ENGT 1501 Seminar in Engineering Technology		1	CADD 4124 Geometric Dimen. & Toler. Principles for Eng. Tech.		3
ET 1050 Digital Principles & Applications*		4	ENGT 3120 Advanced Welding Technology I		3
INDM 4240 Facilities Engineering		3	ENGT 3520 Engineering Economy		3
General Education		6	General Education		5-6
Semester Total		14	Semester Total		14-15

Junior Year - Summer Semester		Hrs
SOT 3022 Internship in Technology		3
Semester Total		3

Senior Year - Fall Semester		Hrs	Senior Year - Spring Semester		Hrs
ATM 4032 Hydraulics & Pneumatics		3	ENGT 4110 Engineering Technology Problem Solving*		3
CMGT 3320 Principles of Construction Management or			ENGT 4580 Quality Systems		3
INDM 4250 Project Management		3	ENGT 4750 Lean Six Sigma		3
ENGT 4520 Robotics & Automation*		3	Departmentally Approved Option 3 Elective***		3
ENGT 4590 Computer Integrated Manufacturing (CIM)*		3	General Education		3
General Education		3	Semester Total		15
Semester Total		15			

Engineering Technology, Option 3 (Industrial Engineering Technology), B.S. Degree – 123 hours

- *This class is only offered during the semester indicated.
- **Enrollment in MATH 1112 assumes you have met the prerequisite MATH requirements in your high school curriculum. If you have not met these requirements MATH 1111 or proper MATH placement will be required per University planned placement guidelines.
- ***See departmental advisor for course recommendations.
- 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)**

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Freshman Year - Fall Semester	Hrs	Freshman Year - Spring Semester	Hrs
CADD 1105 Basic AutoCAD	1	CADD 2160 Structural Drafting	3
CADD 1110 Fundamentals of Drafting or CTE 1300 Introduction to Engineering Design	3	COMM 1000 Public Speaking (GE)	3
ENGL 1020 Composition I (GE)	3	CTE 3060 Technical Writing (GE)	3
ENGT 1000 Principles of Engineering or ENGT 1120 Welding	3	EASC 1004 Introduction to Geology (GE)	4
ENGT 1500 Orientation to Engineering Technology*	1	MATH 1131 Applied Calculus (GE)	3
MATH 1112 College Trigonometry**	2	Semester Total	16
General Education Managing Information	2-3		
Semester Total	15-16		
Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
CMGT 2020 Statics	3	CMGT 2325 Project Cost Estimating	3
ENGT 1501 Seminar in Engineering Technology	1	CMGT 3020 Applied Strengths of Materials	3
ENGT 2040 Engineering Material Science	4	EASC 2100 Engineering Geology	4
PHYS 1101 College Physics I (GE)	4	ET 1010 Applied Electricity	4
General Education	3	Semester Total	14
Semester Total	15		
Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
CADD 2171 Introduction to MicroStation	3	CADD 3150 Civil Drafting	3
CMGT 2340 Surveying and Construction Layout	3	CMGT 4380 Heavy Construction Methods and Materials	3
CMGT 3320 Principles of Construction Management or INDM 4250 Project Management	3	ECON 1010 Principles of Macroeconomics (GE)	3
ENGT 1501 Seminar in Engineering Technology	1	ENGT 4120 Hydrology and Drainage Design*	3
ENGT 3520 Engineering Economy*	3	General Education	3
ENGT 4140 Soils and Foundation Design*	3	Semester Total	15
Semester Total	16		
Junior Year - Summer Semester	Hrs		
SOT 3022 Internship in Technology	3		
Semester Total	3		
Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
CMGT 4310 Construction Safety	3	ENGT 4110 Engineering Technology Problem Solving	3
ENGT 4160 Transportation Systems Design*	3	ENGT 4580 Quality Systems	3
ENGT 4180 Water and Wastewater Systems Design*	3	General Education	6
General Education	6	Semester Total	12
Semester Total	15		

Engineering Technology, Option 4 (Civil Engineering Technology, Infrastructure Project Administration) 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.
- 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 2014 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
CADD 1105 Basic AutoCAD	1	CADD 2160 Structural Drafting	3
CTE 1300 Introduction to Engineering Design or CADD 1110 Fundamentals of Drafting	3	COMM 1000 Public Speaking (GE)	3
ENGL 1020 Composition I (GE)	3	CTE 3060 Technical Writing (GE)	3
ENGT 1000 Principles of Engineering or ENGT 1120 Welding	3	EASC 1004 Introduction to Geology (GE)	4
ENGT 1500 Orientation to Engineering Technology*	1	MATH 1131 Applied Calculus (GE)	3
MATH 1112 College Trigonometry**	2	Semester Total	16
General Education Managing Information	2-3		
Semester Total	15-16		

Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
CMGT 2020 Statics	3	CMGT 2325 Project Cost Estimating	3
ENGT 1501 Seminar in Engineering Technology	1	CMGT 3020 Applied Strengths of Materials	3
PHYS 1101 College Physics I (GE)	4	EASC 2100 Engineering Geology	4
General Education	6	ECON 1010 Principles of Macroeconomics (GE)	3
Semester Total	14	ET 1010 Applied Electricity	4
		Semester Total	17

Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
CADD 2171 Introduction to MicroStation	3	CADD 3150 Civil Drafting	3
CMGT 2340 Surveying and Construction Layout	3	CADD 3175 Advanced MicroStation	3
CMGT 3320 Principles of Construction Management or INDM 4250 Project Management	3	CMGT 3350 Building Structures: Methods and Materials	3
ENGT 1501 Seminar in Engineering Technology	1	ENGT 4120 Hydrology and Drainage Design*	3
ENGT 3520 Engineering Economy*	3	General Education	3
ENGT 4140 Soils and Foundation Design*	3	Semester Total	15
Semester Total	16		

Junior Year - Summer Semester	Hrs
SOT 3022 Internship in Technology	3
Semester Total	3

Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
CADD 4150 Applied Civil Design/Drafting	3	CADD 4162 Commercial Architecture Design/Drafting (BIM)	3
ENGT 4160 Transportation Systems Design*	3	ENGT 4110 Engineering Technology Problem Solving	3
GEOG 4220 Geographic Information Systems I*	3	ENGT 4580 Quality Systems	3
General Education	6	General Education	3
Semester Total	15	Semester Total	12

Engineering Technology, Option 4 (Civil Engineering Technology, Design Emphasis) B.S. Degree - 123 hours

- *This class is only offered during the semester indicated.
- **Enrollment in MATH 1112 assumes you have met the prerequisite MATH requirements in your high school curriculum. If you have not met these requirements MATH 1111 or proper MATH placement will be required per University planned placement guidelines.
- To satisfy the General Education Assessment (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 2014 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 (GE)	3
Modern Language Requirement (GE)*	3	Modern Language Requirement*	3
General Education	9	General Education	9
Semester Total	15	Semester Total	15
AE 1400 Freshman Seminar**	1		

Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
ENGL 2210 or 2215 British Literature (GE)	3	ENGL 2200 or 2205 American Literature	3
Minor Coursework	3	ENGL 2220 World Masterpieces*	3
General Education	6	Minor Coursework	3
Free Choice Elective	3	General Education	6
Semester Total	15	Semester Total	15

Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
ENGL 3240 Critical Approaches to Literature	3	ENGL 3120 History of English Language	3
ENGL British Literature A or B Elective***	3	ENGL 4360 Shakespeare	3
Minor Coursework	3	ENGL American Literature A or B Elective***	3
Free Choice Electives	6	Minor Coursework	6
Semester Total	15	Semester Total	15

Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
ENGL American Literature A or B Elective***	3	ENGL 4240 Senior Capstone in Literature	3
ENGL British Literature A or B Elective***	3	Upper-Level ENGL Electives	6
Upper-Level ENGL Elective	3	Minor Coursework	3
Minor Coursework	3	Free Choice Elective	3
Free Choice Elective	3	Semester Total	15
Semester Total	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.
- ***See the Undergraduate Catalog for the choices that fulfill this requirement.
- This guide is based on a 21 hour minor. The number of free choice electives required will depend on the minor chosen.
- To satisfy the General Education Assessment (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 Education Major, B.S. in Ed. Degree (41-311)

This guide is valid for the 2014 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
<i>ENGL 1020 Composition I (GE)</i>	3	<i>ENGL 1030 Composition II (GE)</i>	3
General Education	12	<i>POLS 1510 American Government (GE)</i>	3
Semester Total	15	<i>General Education Math</i>	3
AE 1400 Freshman Seminar*	1	General Education	6
		Semester Total	15
Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
EDFL 2240 Educational Psychology	3	ENGL 2200 or 2205 American Literature	3
EDFL 2100 Foundations of Education	2	ENGL 2830 Literature for Adolescents (spring only)	3
FLDX 2150 Introductory Field Experience	1	ENGL 2220 World Masterpieces (GE)	3
EDSP 2100 Education of the Exceptional Child	2	ENGL 3120 History of the English Language	3
ENGL 2210 or 2215 British Literature (GE)	3	Free Choice Electives	3
<i>HIST 1350 or 1351 History of the United States (GE)</i>	3	Semester Total	15
Free Choice Electives	2	<i>(Successfully complete MoGEA exam by end of this semester)</i>	
Semester Total	16		
Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
ENGL 3110 English Grammar (fall only)	3	EDFL 4300 Educational Measurement & Evaluation	2
ENGL 3240 Critical Approaches to Literature	3	ENGL 3040 Advanced Rhetoric	3
Upper-Level American Literature**	3	ENGL 4360 Shakespeare	3
Upper-Level British Literature**	3	PSY 4230 Psychology of Adolescence (GE)	3
Free Choice Elective	3	Upper-Level American Literature**	3
Semester Total	15	Upper-Level English Electives	3
		Semester Total	17
Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester***	Hrs
EDFL 4210 The Teaching of Reading in the Secondary School	2	ENGL 4820 Secondary Field Experience II	1
ENGL 4840 Composition & Evaluation (fall only)	3	ENGL 4890 Methods of Teaching English	2
EDFL 3500 Secondary Teaching & Behavioral Management FLDX 3550 Practicum in Secondary Instruction	3	FLDX 4595 Student Teaching Secondary I	5
Upper-Level British Literature**	1	FLDX 4468 Student Teaching Secondary II	4
Upper-Level English Electives	3	Semester Total	12
Semester Total	15		

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

- * AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- **See the current catalog for the choices that fulfill this requirement.
- *** The courses listed for this semester constitute the professional education (student teaching) block. The student should not take any other courses during this semester.
- The Missouri General Education Assessment (MoGEA) is an exam required of all Teacher Education students. Students must pass all five 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.
- 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 2014 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
CIS 1600 Business Information Management (GE)*	3	COMM 1000 Public Speaking or COMM 1050 Fundamentals of Oral Communication Competency (GE)	3
ECON 1010 Principles of Macroeconomics (GE)*	3	ECON 1011 Principles of Microeconomics*	3
ENGL 1020 Composition I (GE)	3	ENGL 1030 Composition II or CTE 3060 Technical Writing (GE)	3
MATH 1111 College Algebra (GE)*	3	General Education	6
General Education	3	Semester Total	15
Semester Total	15		
AE 1400 or BADM 1400 Freshman Seminar**	1		

Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
ACCT 2101 Principles of Financial Accounting*	3	ACCT 2102 Principles of Managerial Accounting*	3
BLAW 2720 Legal Environment of Business*	3	FIN 2801 Business Statistics I*	3
General Education#	9	General Education	7
Semester Total	15	Free Choice Electives	2
		Semester Total	15

Note: Complete all BSBA Admission requirements.*

Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
MGT 3325 Business Communications	3	ESE 3710 Entrepreneurial Business Planning	3
(IBE Block-below)***		ESE 3715 Entrepreneurial Business Planning Lab	1
CIS 3630 Management Information Systems***	3	FIN 3801 Business Statistics II	3
MGT 3315 Management of Organizations***	3	FIN 3850 Principles of Finance	3
MKT 3405 Marketing Policy***	3	MGT 3360 Production/Operations Management	3
IBE Practicum (CIS 3685/MKT 3485/MGT 3385)***	3	Major Electives##	3
Semester Total	15	Semester Total	16

Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
ESE 3720 Social Enterprise for Entrepreneurs (fall only)	3	ESE 4710 Commercialization (spring only)	3
ESE 3725 Social Enterprise Lab (fall only)	1	ESE 4715 Commercialization Lab (spring only)	1
Major Electives##	3	MGT 4357 Organizational Policy & Strategy	3
Free Choice Electives (internship recommended)	6	Major Electives##	3
Semester Total	13	Free Choice Electives (internship recommended)**	6
		Semester Total	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.) is highly recommended for academic success. AE or BADM 1400 counts as a free choice elective. If chosen, 1 less hour of free choice elective will be required in the junior or senior year.
- *****All Entrepreneurship and Social Enterprise majors must enroll in the IBE Block.** This includes the IBE Practicum (MGT 3385, MKT 3485 or CIS 3685) concurrently with the IBE sections of MGT 3315, MKT 3405 and CIS 3630. This is typically done during the fall of the junior year. Prerequisites for the IBE block include: ACCT 2101, CIS 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 2014 Undergraduate Catalog for course choices.
- 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	Hrs	Freshman Year - Spring Semester	Hrs
CFD 1010 Individual & Family Relationships (GE)	3	ENGL 1030 Composition II or CTE 3060 Technical Writing (GE)	3
ENGL 1020 Composition I (GE)	3	FAME 1450 Fundamentals of Apparel Design and Construction	3
FAME 1400 Introduction to Fashion Merchandising	3	General Education	9
FAME 1445 Freshman Seminar in Fashion*	1	Semester Total	15
General Education (If chosen, CIS 1600 will also count in the Business Administration minor)**	3		
Semester Total	13		

Summer - After Freshman or Sophomore Year	Hrs
FAME 2440 Professional Work Experience*#	3
Semester Total	3

Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
FAME 2442 Textile Science	3	FAME 2425 Apparel Quality Analysis*	3
FAME 2445 Sophomore Seminar in Fashion*	1	Minor Coursework (BLAW 2720 recommended for overlap with both Marketing and Business Administration minors)**	3
General Education	9	General Education	9
Semester Total	13	Semester Total	15

Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
FAME 3415 Product Development for Consumers*	3	ACCT 2101 Principles of Financial Accounting	3
FAME 3430 Professional Image Management*	3	FAME 3435 Fashion Buying*	3
FAME 3434 Fashion History of Costume (GE)*	3	FAME 3440 Fashion Promotion and Visual Merchandising*	3
FAME 3445 Junior Seminar in Fashion*	1	Minor Coursework**	6
Minor Coursework (MKT 3405 required for both minors)**	3	Semester Total	15
Semester Total	13		

Summer - After Junior or Senior Year	Hrs
FAME 4490 Internship in FAME*#	3
Semester Total	3

Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
FAME 4410 Materials for Interior Furnishings*	3	FAME 3442 Sustainability for Consumer Products (GE)*	3
FAME 4425 Fashion Entrepreneurship*	3	FAME 4433 International Apparel Technology*	3
Major Elective##	3	FAME 4445 Senior Seminar in FAME*	3
Minor Coursework** (0 hours needed for Bus. Adm. minor and 6 hours needed for Marketing minor)	0-6	Major Elective##	3
Free Choice Electives### (0 hours needed for Mkt. major and 6 hours needed for Business Administration minor)	0-6	Free Choice Electives###	6
Semester Total	15	Semester Total	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.
- 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 2014 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
CIS 1600 Business Information Management (GE)*	3	COMM 1000 Public Speaking or COMM 1050 Fundamentals of Oral Communication Competency (GE)	3
ECON 1010 Principles of Macroeconomics (GE)*	3	ECON 1011 Principles of Microeconomics*	3
ENGL 1020 Composition I (GE)	3	ENGL 1030 Composition II or CTE 3060 Technical Writing (GE)	3
MATH 1111 College Algebra (GE)*	3	General Education	6
General Education	3	Semester Total	15
Semester Total	15		
AE 1400 or BADM 1400 Freshman Seminar**	1		
Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
ACCT 2101 Principles of Financial Accounting*	3	ACCT 2102 Principles of Managerial Accounting*	3
BLAW 2720 Legal Environment of Business*	3	FIN 2801 Business Statistics I*	3
General Education	9	General Education	7
Semester Total	15	Free Choice Electives	2
		Semester Total	15
Note: Complete all B.S.B.A. Admission requirements.*			
Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
ECON 3020 Money & Banking	3	FIN 3861 Financial Management I***	3
FIN 3801 Business Statistics II	3	FIN 3881 Financial Institutions & Markets***	3
FIN 3850 Principles of Finance***	3	FIN 3891 Security Analysis***	3
MGT 3325 Business Communication	3	FIN 3893 Credit & Financial Statement Analysis***	3
Free Choice Electives	3	MGT 3315 Management of Organizations	3
Semester Total	15	Semester Total	15
Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
CIS 3630 Management Information Systems	3	MGT 4357 Organizational Policy & Strategy	3
ECON 3030 Intermediate Microeconomics	3	MGT 3360 Production/Operations Management	3
MKT 3405 Marketing Policy	3	Finance Electives#	6
Finance Electives#	6	Finance or Upper-Level Business Elective#	3
Semester Total	15	Semester Total	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 or BADM 1400 (1 hr.) is highly recommended for academic success. AE or BADM 1400 counts as a free choice elective.
- ***A minimum grade of C must be earned in FIN 3850, FIN 3861, FIN 3881, 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) elective. See department chair 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 chair approval. Electives are not offered every semester – check with the department chairperson for course offerings.
- 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.

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

This guide is valid for the 2014 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
CHEM 1131 General Chemistry I (GE)*	5	CHEM 1132 General Chemistry II	5
ENGL 1020 Composition I (GE)	3	ENGL 1030 Composition II or CTE 3060 Technical Writing (GE)	3
MATH 1151 Calculus & Analytical Geometry I (GE)*	5	General Education	6
General Education	2-3	Semester Total	14
Semester Total	15-16		
AE 1400 Freshman Seminar**	1		
Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
BIOL 1110 Principles of Biology	3	CHEM 3212 Quantitative Analysis	3
CHEM 3341 Organic Chemistry I#	4	CHEM 3342 Organic Chemistry II	4
PHYS 1101 (GE) or PHYS 2121 College/University Physics I (GE)	4-5	PHYS 1102 or PHYS 2122 College/University Physics II	4-5
General Education	3	General Education	3
Semester Total	14-15	Semester Total	14-15
Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
BIOL 3511 Genetics	4	BIOL 2010 Human Biology or BIOL 3401 Human Anatomy	3
CHEM 3111 Intermediate Inorganic Chemistry***	4	BIOL 4013 Introduction to Experimental Design & Analysis	3
CHEM 3421 Intermediate Biochemistry	3	CHEM 3920 Communication Skills in Chemistry	2
CHEM 4231 Instrumental Analysis***	4	General Education	9
Semester Total	15	Semester Total	17
Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
BIOL 3410 Forensic Science	3	BIOL 4514 Molecular Biology	3
CJ 1000 Introduction to Criminal Justice (GE)	3	CHEM 4531 Physical Chemistry I*** or CHEM 4532 Physical Chemistry II***	4
Major CHEM Elective***##	3	CJ 4302 Criminal Evidence	3
Free Choice Electives###	6	Free Choice Electives###	3-6
Semester Total	15	Semester Total	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.
- **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.
- #A grade of C or better is required in CHEM 3341 as a prerequisite to CHEM 3421.
- ##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.
- 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)

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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 2511 Painting I
 ENGL 1030 Composition II or CTE 3060 Technical Writing (GE)
 GRAP 1010 Fundamentals of Printing Processes

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 2710 Printmaking I
 ART 3620 Logo & Trademark Design
 ART 3660 Publication 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 3510 Watercolor
 ART 3630 Design for Advertising
 Major Electives*
 General Education

Semester Total

Hrs

3
 3
 3
 6
 3

18

Junior Year - Spring Semester

ART 3640 Package Design
 ART 3650 Narrative Animation or ART 4620 Motion Design
 ART 4610 Interactive Design
 ART 3680 History of Graphic Design
 General Education

Semester Total

Hrs

3
 3
 3
 3
 3

15

Senior Year - Fall Semester

ART Elective
 Major Electives*
 General Education

Semester Total

Hrs

3
 6
 6

15

Senior Year - Spring Semester

ART 4020 Studio Seminar
 ART 4221 Art Theory and Criticism
 General Education (only 6 hours needed if COMM 1200 is chosen as one of the major electives*)

Semester Total

Hrs

3
 3
 6-9

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.
- 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 2014 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
CIS 1600 Business Information Management (GE)	3	CTE 3060 Technical Writing (GE)	3
ENGL 1020 Composition I (GE)	3	GRAP 2030 Pre-Media Applications - Adobe Illustrator	3
GRAP 1000 Orientation to Graphic Technologies*	1	GRAP 2031 Pre-Media Applications - Adobe Photoshop	3
GRAP 1010 Fundamentals of Graphic Processes	3	General Education	6
General Education	6	Semester Total	15
Semester Total	16		

Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
GRAP 2032 Pre-Media Applications - Adobe InDesign	3	ART 2610 Introduction to Graphic Design & Illustration	3
GRAP 3034 Lithographic Processes*	3	GRAP 2035 Digital Workflow Applications	3
General Education	9	GRAP 2610 Principles of Web Media*	3
Semester Total	15	Major Option 1 Elective**	6
		Semester Total	15

Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
GRAP 3024 Flexographic Processes*	3	GRAP 3030 Digital Output Technologies*	3
GRAP 3040 Screen & Specialty Printing	3	GRAP 3043 Finishing & Distribution*	3
MGT 3315 Management of Organizations or INDM 4250 Project Management	3	GRAP 3045 Materials and Methods in Graphic Technologies*	3
Major Option 1 Elective**#	3	GRAP 3051 Graphic Technologies Management*	3
General Education Science with a Laboratory	4	General Education (If ECON 1010 is chosen will also count as a major Option 1 elective)#	3
Semester Total	16	Semester Total	15

Between Junior & Senior Year - Summer Semester	Hrs
GRAP 3016 Experiences in Graphic Production***	1
SOT 3022 Internship in Technology***	1
Semester Total	2

Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
GRAP 3057 Quality Control for Print Media*	3	GRAP 4051 Print Production*	3
GRAP 4038 Color Management*	3	GRAP 4055 Estimating & Costing for Print Media*##	3
GRAP 4053 Production Analysis*	3	MGT 3325 Business Communication	3
GRAP 4095 Senior Seminar in Graphic Technologies*	1	General Education	3
General Education	3	Free Choice Electives#	1
Semester Total	13	Semester Total	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 2014 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 and SOT 3022 Internship in Technology may be in a Summer, Fall or Spring Semester. They are optional Sophomore/Junior year.
- #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.
- ##It is recommended that students enroll in GRAP 4055, Estimating & Costing for Print Media, during the spring semester immediately prior to graduation.
- 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 2014 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
CIS 1600 Business Information Management (GE)	3	CTE 3060 Technical Writing (GE)	3
ENGL 1020 Composition I (GE)	3	GRAP 2030 Pre-Media Applications - Adobe Illustrator	3
GRAP 1000 Orientation to Graphic Technologies*	1	GRAP 2031 Pre-Media Applications - Adobe Photoshop	3
GRAP 1010 Fundamentals of Graphic Processes	3	General Education	6
General Education	6	Semester Total	15
Semester Total	16		
Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
GRAP 2032 Pre-Media Applications - Adobe InDesign	3	ART 2610 Introduction to Graphic Design & Illustration	3
GRAP 3034 Lithographic Processes*	3	GRAP 2035 Digital Workflow Applications	3
General Education	9	GRAP 2610 Principles of Web Media*	3
Semester Total	15	Major Option 2 Elective**	3
		General Education Science with Laboratory	4
		Semester Total	15
Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
GRAP 3024 Flexographic Processes*	3	GRAP 3030 Digital Output Technologies*	3
GRAP 3040 Screen & Specialty Printing	3	GRAP 3045 Materials and Methods in Graphic Technologies*	3
MGT 3315 Management of Organizations or INDM 4250 Project Management	3	GRAP 3051 Graphic Technologies Management*	3
Major Option 2 Elective**	3	Major Option 2 Elective**	3
General Education	3	General Education	3
Semester Total	15	Semester Total	15
Between Junior & Senior Year - Summer Semester	Hrs		
GRAP 3016 Experiences in Graphic Production**	1		
SOT 3022 Internship in Technology***	1		
Semester Total	2		
Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
GRAP 4038 Color Management*	3	GRAP 3043 Finishing & Distribution*	3
GRAP 4053 Production Analysis*	3	Major Option 2 Elective**	6
GRAP 4095 Senior Seminar in Graphic Technologies*	1	General Education	3
Major Option 2 Elective**	6	Free Choice Electives	1
Semester Total	13	Semester Total	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 2014 Undergraduate Catalog for the list of approved Major Option 2 Electives.
- ***GRAP 3016 Experiences in Graphic Production and SOT 3022 Internship in Technology may be in a Summer, Fall or Spring Semester. They are optional Sophomore/Junior year.
- 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 2014 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
CIS 1600 Business Information Management (GE)	3	CTE 3060 Technical Writing (GE)	3
ENGL 1020 Composition I (GE)	3	GRAP 2030 Pre-Media Applications - Adobe Illustrator	3
GRAP 1000 Orientation to Graphic Technologies	1	GRAP 2031 Pre-Media Applications - Adobe Photoshop	3
GRAP 1010 Fundamentals of Graphic Processes	3	General Education	6
General Education	6	Semester Total	15
Semester Total	16		
Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
GRAP 2032 Pre-Media Applications - Adobe InDesign	3	ART 2610 Introduction to Graphic Design & Illustration	3
GRAP 3034 Lithographic Processes*	3	GRAP 2035 Digital Workflow Applications	3
General Education	9	GRAP 2610 Principles of Web Media	3
Semester Total	15	GRAP 2620 Web Media Applications	3
		Major Option 3 Elective**	3
		Semester Total	15
Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
GRAP 2670 Web Media Animation	3	GRAP 2630 Web Authoring	3
GRAP 3024 Flexographic Processes*	3	GRAP 3030 Digital Output Technologies	3
GRAP 3040 Screen & Specialty Printing	3	GRAP 3045 Materials and Methods in Graphic Technologies*	3
MGT 3315 Management of Organizations or INDM 4250 Project Management	3	GRAP 3051 Graphic Technologies Management*	3
General Education Science with Laboratory	4	General Education	3
Semester Total	16	Semester Total	15
Between Junior & Senior Year - Summer Semester	Hrs		
GRAP 3016 Experiences in Graphic Production***	1		
SOT 3022 Internship in Technology***	1		
Semester Total	2		
Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
GRAP 4038 Color Management*	3	GRAP 3043 Finishing & Distribution*	3
GRAP 4053 Production Analysis*	3	Major Option 3 Electives**	6
GRAP 4095 Senior Seminar in Graphic Technologies*	1	General Education	3
Major Option 3 Elective**	3	Free Choice Elective	1
General Education	3	Semester Total	13
Semester Total	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 2014 Undergraduate Catalog for the list of approved Major Option 3 Electives.
- ***GRAP 3016 Experiences in Graphic Production and SOT 3022 Internship in Technology may be in a Summer, Fall or Spring Semester. They are optional Sophomore/Junior year.
- 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 2014 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
CIS 1600 Business Information Management (GE)	3	CTE 3060 Technical Writing (GE)	3
ENGL 1020 Composition I (GE)	3	GRAP 2030 Pre-Media Applications - Adobe Illustrator	3
GRAP 1000 Orientation to Graphic Technologies	1	GRAP 2031 Pre-Media Applications - Adobe Photoshop	3
GRAP 1010 Fundamentals of Graphic Processes	3	General Education	6
General Education	6	Semester Total	15
Semester Total	16		

Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
CADD 1105 Basic AutoCAD	1	ART 2610 Introduction to Graphic Design & Illustration	3
CADD 1110 Fundamentals of Drafting	3	GRAP 1700 Introduction to Packaging	3
ENGT 1012 Global Production Technology	2	GRAP 2035 Digital Workflow Applications	3
GRAP 2032 Pre-Media Applications - Adobe InDesign	3	GRAP 2610 Principles of Web Media	3
GRAP 3034 Lithographic Processes*	3	General Education Science with Laboratory	4
General Education	3	Semester Total	16
Semester Total	15		

Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
GRAP 3024 Flexographic Processes*	3	GRAP 3030 Digital Output Technologies	3
GRAP 3040 Screen & Specialty Printing	3	GRAP 3045 Materials and Methods in Graphic Technologies*	3
Major Option Elective**	3	GRAP 3051 Graphic Technologies Management*	3
General Education	6	Major Option Elective**	3
Semester Total	15	General Education	3
		Semester Total	15

Between Junior & Senior Year - Summer Semester	Hrs
GRAP 3016 Experiences in Graphic Production***	1
SOT 3022 Internship in Technology***	1
Semester Total	2

Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
GRAP 4038 Color Management*	3	GRAP 3043 Finishing & Distribution*	3
GRAP 4053 Production Analysis*	3	GRAP 4051 Print Production	3
GRAP 4095 Senior Seminar in Graphic Technologies*	1	Major Option Electives**	3
MGT 3315 Management of Organizations or INDM 4250 Project Management	3	General Education	3
General Education	3	Free Choice Elective	1
Semester Total	13	Semester Total	13

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

- *This class is only offered during the semester indicated.
- **See the 2014 Undergraduate Catalog for the list of approved Major Option 4 Electives.
- ***GRAP 3016 Experiences in Graphic Production and SOT 3022 Internship in Technology may be in a Summer, Fall or Spring Semester. They are optional Sophomore/Junior year.
- 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 2014 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
CIS 1600 Business Information Management (GE)	3	CTE 3060 Technical Writing (GE)	3
ENGL 1020 Composition I (GE)	3	GRAP 2030 Pre-Media Applications - Adobe Illustrator	3
GRAP 1000 Orientation to Graphic Technologies	1	GRAP 2031 Pre-Media Applications - Adobe Photoshop	3
GRAP 1010 Fundamentals of Graphic Processes	3	General Education	6
General Education	6	Semester Total	15
Semester Total	16		

Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
GRAP 2032 Pre-Media Applications - Adobe InDesign	3	ART 2610 Introduction to Graphic Design & Illustration	3
GRAP 3034 Lithographic Processes*	3	GRAP 2035 Digital Workflow Applications	3
PHOT Major Option 5 Elective**	3	GRAP 2610 Principles of Web Media	3
General Education	6	PHOT Major Option 5 Elective**	6
Semester Total	15	Semester Total	15

Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
GRAP 3024 Flexographic Processes*	3	GRAP 3030 Digital Output Technologies	3
GRAP 3040 Screen & Specialty Printing	3	GRAP 3045 Materials and Methods in Graphic Technologies*	3
MGT 3315 Management of Organizations or INDM 4250 Project Management	3	GRAP 3051 Graphic Technologies Management*	3
PHOT Major Option 5 Elective**	3	PHOT Major Option 5 Elective**	3
General Education Science with Laboratory	4	General Education	3
Semester Total	16	Semester Total	15

Between Junior & Senior Year - Summer Semester	Hrs
GRAP 3016 Experiences in Graphic Production***	1
SOT 3022 Internship in Technology***	1
Semester Total	2

Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
GRAP 4038 Color Management*	3	GRAP 3043 Finishing & Distribution*	3
GRAP 4053 Production Analysis*	3	PHOT Major Option 5 Elective**	6
GRAP 4095 Senior Seminar in Graphic Technologies*	1	General Education	3
PHOT Major Option 5 Elective**	3	Free Choice Elective	1
General Education	3	Semester Total	13
Semester Total	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 and SOT 3022 Internship in Technology may be in a Summer, Fall or Spring Semester. They are optional Sophomore/Junior year.
- 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 2014 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	CHEM 1131 General Chemistry I (GE)#**	5
MATH 1111 College Algebra (GE)#	3	CTE 3060 Technical Writing (GE)#	3
PE 2472 Communicating Ideas on Sport (GE)#	3	PE 1800 Functional Anatomy#	3
SOC 1800 General Sociology (GE)#	3	PSY 1100 General Psychology (GE)#	3
General Education	3	General Education	2
Semester Total	15	Semester Total	16
AE 1400 Freshman Seminar*	1		

Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
BIOL 3401 Human Anatomy#	3	BIOL 3402 Human Physiology#	5
CHEM 1604 Elementary Organic and Biochemistry# or CHEM 1132 General Chemistry II#	4-5	PE 2850 Foundations of Exercise Physiology#	3
PE 2800 Biomechanics#	3	PHIL 2300 Ethics (GE)#	3
General Education	6	General Education	3
Semester Total	16-17	Semester Total	14

Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
AT 2640 Introduction to Therapeutic Exercise#	2	AT 2630 Therapeutic Modalities#	2
HED 4370 Human Diseases#	3	AT 2631 Therapeutic Modalities Lab#	1
PHYS 1101 College Physics I (GE)#	4	BIOL 2510 Basic Genetics#	3
PSY 3220 Life-Span Development#	3	PHYS 1102 College Physics II#	4
Free Choice Electives***	3	PSY 4440 Abnormal Psychology #	3
Semester Total	15	Free Choice Electives***	2
		Semester Total	15

Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
BIOL 3215 Medical Terminology#	3	PE 4341 Physical Activity and Special Populations#	3
HED 4330 First Aid & CPR#	1	PE 4765 Internship#	6
PE 4850 Assessment and Evaluation of Fitness/Wellness#	3	PE 4870 Clinical Exercise Physiology#	3
PSY 4520 Statistics for the Behavioral Sciences#	3	Free Choice Electives***	2-3
Free Choice Electives***	4	Semester Total	14-15
Semester Total	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 1111.
- ***The number of free choice electives required will vary between 11-12 hours depending on the second CHEM course 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.

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

This guide is valid for the 2014 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
CHEM 1104 Introduction to the Sciences: Chemistry (GE)#	4	HED 1100 Personal Health#	3
ENGL 1020 Composition I (GE)#	3	MATH 1111 College Algebra (GE)#	3
HED 1010 Introduction to Health Studies#	1	PE 2472 Communicating Ideas on Sport (GE)#	3
SOC 1800 General Sociology (GE)#	3	PSY 1100 General Psychology (GE)#	3
General Education Managing Information	2-3	General Education	3
Semester Total	13-14	Semester Total	15
AE 1400 Freshman Seminar*	1		
Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
BIOL 3401 Human Anatomy#	3	BIOL 3215 Medical Terminology#	3
D&N 3340 Nutrition#	3	BIOL 3402 Human Physiology#	5
PHIL 2300 Ethics (GE)#	3	CTE 3060 Technical Writing (GE)#	3
General Education	6	D&N 3350 Community Nutrition#	3
Semester Total	15	General Education	3
		Semester Total	17
Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
COMM 3010 Interpersonal Communication#	3	HED 4390 Community Health Education#	3
HED 4310 Drugs & Youth#	3	NUR 4030 Human Sexuality#	3
HED 4370 Human Diseases#	3	PSY 4440 Abnormal Psychology#	3
PSY 3220 Life-Span Development#	3	Free Choice Electives	6
General Education	3	Semester Total	15
Free Choice Elective	3		
Semester Total	18		
Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
HED 4400 Health Program Planning and Evaluation#	3	PE 4765 Internship#	6
SOC 4875 Medical Sociology#	3	PSY 4520 Statistics for the Behavioral Sciences#	3
SOC 4894 Sociology of Aging#	3	Free Choice Elective	3
Free Choice Electives	6-7	Semester Total	12
Semester Total	15-16		

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.
- 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 2014 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
HIST 1350 History of the United States to 1877 (GE)	3	HIST 1351 History of the United States from 1877 (GE)	3
Modern Language Requirement (GE)*	3	HIST 2402 History of Modern World	3
General Education	6	Modern Language Requirement*	3
Semester Total	15	General Education	3
AE 1400 Freshman Seminar**	1	Semester Total	15
Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
HIST 2400 History of the Early World	3	HIST 2401 History of the Early Modern World	3
General Education	9	General Education	9
Modern Language Requirement*	3	Free Choice Electives	3
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	15	Semester Total	15
Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
Upper-Level Elective in World History***	6	HIST 4500 Senior Capstone in History#	3
Upper-Level Elective in History	3	Free Choice Electives	12
Free Choice Electives	6	Semester Total	15
Semester Total	15		

History Major, B.A. Degree - 120 hours

- *Refer to the Bachelor’s Degree Requirements section of the Undergraduate Catalog for the B.A. Modern Language requirements. This plan is based on 9 hours of Modern Language.
- **AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- ***A minimum of three hours of world history must be non-western history, or HIST 4452 or HIST 4453.
- #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.
- 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 2014 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 Technical Writing (GE)	3
HIST 1350 History of the United States to 1877 (GE)	3	HIST 1351 History of the United States from 1877 (GE)	3
General Education	9	HIST 2402 History of Modern World	3
Semester Total	15	General Education	6
AE 1400 Freshman Seminar*	1	Semester Total	15

Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
HIST 2400 History of the Early World	3	HIST 2401 History of the Early Modern World	3
General Education	12	General Education	3
Semester Total	15	Free Choice Electives	9
		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	15	Semester Total	15

Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
Upper-Level Elective in World History**	6	HIST 4500 Senior Capstone in History#	3
Upper-Level Elective in History	3	Free Choice Electives	12
Free Choice Electives	6	Semester Total	15
Semester Total	15		

History Major, B.S. Degree - 120 hours

- *AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- **A minimum of three hours of world history must be non-western history, or HIST 4452 or HIST 4453.
- #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.
- 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.

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

This guide is valid for the 2014 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
CIS 1600 Business Information Management (GE)*	3	COMM 1000 Public Speaking or COMM 1050 Fundamentals of Oral Communication Competency (GE)	3
ENGL 1020 Composition I (GE)	3	ECON 1010 Principles of Macroeconomics (GE)*	3
HM 1800 Introduction to Hospitality (fall only)	3	ENGL 1030 Composition II or CTE 3060 Technical Writing (GE)	3
MATH 1111 College Algebra (GE)*	3	General Education	6
General Education	3	Semester Total	15
Semester Total	15		
AE 1400 or BADM 1400 Freshman Seminar**	1		
Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
ACCT 2101 Principles of Financial Accounting*	3	ACCT 2102 Principles of Managerial Accounting*	3
BLAW 2720 Legal Environment of Business*	3	FIN 2801 Business Statistics I*	3
ECON 1011 Principles of Microeconomics*	3	HM 2830 Hospitality Case Analysis	1
General Education	7	General Education	9
Semester Total	16	Semester Total	16
Summer Semester	Hrs	Note: Complete all BSBA Admission requirements.*	
HM 3880 Internship (typically completed during the summer after 2nd or 3rd year - may be done during a regular semester.)	3		
Semester Total	3		
Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
FIN 3801 Business Statistics II	3	HM 3844 Restaurant Operations (spring only)	3
FIN 3850 Principles of Finance	3	(IBE Block-below)***	
HM 2830 Hospitality Case Analysis	1	CIS 3630 Management Information Systems***	3
HM 3800 Lodging Management (fall only)	3	MGT 3315 Management of Organizations***	3
MGT 3325 Business Communications	3	MKT 3405 Marketing Policy***	3
Semester Total	13	IBE Practicum (CIS 3685/MKT 3485/MGT 3385)***	3
		Semester Total	15
Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
HM 4820 Sustainability & Operations Management	3	HM 3825 Events Management (spring only)	3
HRM 3920 Human Resource Management	3	HM 4830 Tourism Marketing (spring only)	3
MGT 3320 System, Teams, & Organizational Behavior	3	HM 4845 Senior Seminar (spring only)	3
MGT 3360 Production/Operations Management	3	Free Choice Electives**	3
MGT 4357 Organizational Policy & Strategy	3	Semester Total	12
Semester Total	15		

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.
- *****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.
- 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 2014 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	CHEM 1104 Introduction to the Sciences: Chemistry (GE)	4
HM 1800 Introduction to Hospitality (Fall only)	3	COMM 1000 Public Speaking or	
General Education	9	COMM 1050 Fundamentals of Oral Communication Competency (GE)	3
Semester Total	15	ECON 1010 Principles of Macroeconomics (GE)	3
AE 1400 Freshman Seminar*	1	ENGL 1030 Composition II or CTE 3060 Technical Writing (GE)	3
		General Education Managing Information	2-3
		Semester Total	15-16
Summer Semester Following Freshman or Sophomore Year	Hrs		
HM 3810 Internship**	3		
Semester Total	3		
Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
ACCT 2101 Principles of Financial Accounting	3	BLAW 2720 Legal Environment of Business	3
FOOD 2322 Food Preparation	3	FOOD 3332 Quantity Food Production & Service	3
HM 2830 Hospitality Management Case Analysis***	1	GEOG 2212 World Geography (GE)	3
General Education	9	HM 3844 Restaurant Operations	3
Semester Total	16	General Education	3
		Semester Total	15
Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
HM 3800 Lodging Management (Fall only)	3	HM 2830 Hospitality Management Case Analysis***	1
HM 3845 Hospitality Operations Analysis	3	HM 3825 Events Management (Spring only)	3
MGT 3320 Systems, Teams, & Organizational Behavior	3	HM 4830 Tourism Marketing (Spring only)	3
MGT 3325 Business Communication	3	HRM 3920 Human Resource Management	3
Semester Total	12	Free Choice Electives	4
		Semester Total	14
Summer Semester Following Junior Year	Hrs		
HM 4810 Internship	5		
Semester Total	5		
Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
HM 4820 Sustainability & Operations Management	3	HM 2830 Hospitality Management Case Analysis***	1
Free Choice Electives	9	HM 4845 Senior Seminar (Spring only)	3
Semester Total	12	Free Choice Electives	8-9
		Semester Total	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.
- 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.

Innovative Technologies, B.S. Degree (Option 1: Production Management) (43-01588)

This guide is valid for the 2014 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
COMM 1000 Public Speaking (GE)	3	CADD 1105 Basic AutoCAD	1
ENGL 1020 Composition I (GE)	3	CADD 1110 Fundamentals of Drafting	3
ET 1010 Applied Electricity*	4	CADD 1170 Introduction to Computer-Aided Drafting	2
MATH 1111 College Algebra (GE)	3	CTE 3060 Technical Writing (GE)	3
General Education	3	ENGT 1012 Global Production Technology	2
Semester Total	16	General Education	3
		Semester Total	14
Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
ACCT 2101 Principles of Financial Accounting	3	CADD 2120 Machine Drafting**	3
CHEM 1103 Introduction to the Sciences: Chemistry (GE)	3	ECON 1010 Principles of Macroeconomics (GE)	3
ENGT 2040 Engineering Material Science	4	PHYS 1104 Introduction to the Sciences: Physics (GE)	4
ENGT 2530 Machine Tool Technology	3	General Education	3
General Education	3	Semester Total	13
Semester Total	16		
Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
CADD 4171 Production Design Drafting***	3	CADD 4124 Geometric Dimen. & Toler. Principles for ENGT	3
ENGT 3520 Engineering Economy	3	ENGT 3530 Inspection and Quality Control*	3
GEOG 3201 The Cultural Landscape (GE)	3	ENGT 3562 Computer Numerical Control (CNC)*	3
SAFE 3070 Safety Leadership	3	INDM 4260 Organizational Dynamics	3
General Education	3	General Education Managing Information	2
Semester Total	15	Semester Total	14
Junior-to-Senior Year - Summer Semester	Hrs		
SOT 3022 Internship in Technology	3		
Semester Total	3		
Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
ATM 4032 Hydraulics & Pneumatics	3	ENGT 4580 Quality Systems Engineering	3
ENGT 4520 Robotics and Automation	3	ENGT 4110 Engineering Technology Problem Solving	3
INDM 4210 Industrial Management	3	INDM 4015 Legal Aspects of Industry*	3
INDM 4240 Facilities Engineering	3	INDM 4220 Human Factors Engineering	3
INDM 4250 Project Management	3	Free Choice Elective	2
Semester Total	15	Semester Total	14

Innovative Technologies, B.S. Degree (Option 1: Production Management) - 120 hours

- *This course is only offered during the semester indicated.
- **A grade of C or higher is required in this course as a prerequisite to CADD 4171.
- ***Students will need permission to enroll in CADD 4171 because the prerequisite of a C or higher in CADD 4170 is not required by 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.

Innovative Technologies, B.S. Degree (Option 2: Product Research and Development) (43-02588)

This guide is valid for the 2014 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.

<p>Freshman Year - Fall Semester COMM 1000 Public Speaking (GE) ENGL 1020 Composition I (GE) MATH 1111 College Algebra (GE) PSY 1100 General Psychology (GE) General Education Semester Total</p>	<p>Hrs 3 3 3 3 3 15</p>	<p>Freshman Year - Spring Semester CADD 1105 Basic AutoCAD CADD 1110 Fundamentals of Drafting CADD 1170 Introduction to Computer-Aided Drafting CTE 3060 Technical Writing (GE) ENGT 1012 Global Production Technology General Education Semester Total</p>	<p>Hrs 1 3 2 3 2 3 14</p>
<p>Sophomore Year - Fall Semester ACCT 2101 Principles of Financial Accounting CHEM 1103 Introduction to the Sciences: Chemistry (GE) ENGT 2040 Engineering Material Science ENGT 2530 Machine Tool Technology General Education Managing Information Semester Total</p>	<p>Hrs 3 3 4 3 2-3 15-16</p>	<p>Sophomore Year - Spring Semester CADD 2120 Machine Drafting* ECON 1010 Principles of Macroeconomics (GE) PHYS 1104 Introduction to the Sciences: Physics (GE) PSY 2110 Research and Design Analysis I Semester Total</p>	<p>Hrs 3 3 4 4 14</p>
<p>Junior Year - Fall Semester CADD 4171 Production Design Drafting** GEOG 3201 The Cultural Landscape (GE) PSY 2120 Research and Design Analysis II General Education Semester Total</p>	<p>Hrs 3 3 4 3 13</p>	<p>Junior Year - Spring Semester ENT 4315 Entrepreneurial Business Planning INDM 4230 Lean and Quality Management INDM 4260 Organizational Dynamics SAFE 3070 Safety Leadership General Education Semester Total</p>	<p>Hrs 3 3 3 3 3 15</p>
<p>Junior-to-Senior Year - Summer Semester INDM 4280 Industrial Statistics SOT 3022 Internship in Technology Semester Total</p>	<p>Hrs 3 3 6</p>		
<p>Senior Year - Fall Semester INDM 4210 Industrial Management INDM 4250 Project Management SOT 4000 Special Projects in Technology Free Choice Electives Semester Total</p>	<p>Hrs 3 3 3 5 14</p>	<p>Senior Year - Spring Semester ENGT 4110 Engineering Technology Problem Solving ENGT 4580 Quality Systems Engineering INDM 4220 Human Factors Engineering Free Choice Electives Semester Total</p>	<p>Hrs 3 3 3 5 14</p>

Innovative Technologies, B.S. Degree (Option 2: Product Research and Development) - 120 hours

- *A grade of C or higher is required in this course as a prerequisite to CADD 4171.
- **Students will need permission to enroll in CADD 4171 because the prerequisite of a C or higher in CADD 4170 is not required by 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.

Innovative Technologies, B.S. Degree (Option 3: Robotics and Automation) (43-03588)

This guide is valid for the 2014 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.

<p>Freshman Year - Fall Semester</p> <p>COMM 1000 Public Speaking (GE) ENGL 1020 Composition I (GE) ET 1010 Applied Electricity* MATH 1111 College Algebra (GE) General Education Semester Total</p>	<p>Hrs</p> <p>3 3 4 3 3 16</p>	<p>Freshman Year - Spring Semester</p> <p>CADD 1105 Basic AutoCAD CADD 1110 Fundamentals of Drafting CADD 1170 Introduction to Computer-Aided Drafting CTE 3060 Technical Writing (GE) ENGT 1012 Global Production Technology General Education Semester Total</p>	<p>Hrs</p> <p>1 3 2 3 2 3 14</p>
<p>Sophomore Year - Fall Semester</p> <p>ACCT 2101 Principles of Financial Accounting CHEM 1103 Introduction to the Sciences: Chemistry (GE) ET 1050 Digital Principles & Applications* General Education Semester Total</p>	<p>Hrs</p> <p>3 3 4 5-6 15-16</p>	<p>Sophomore Year - Spring Semester</p> <p>ECON 1010 Principles of Macroeconomics (GE) PHYS 1104 Introduction to the Sciences: Physics (GE) General Education Semester Total</p>	<p>Hrs</p> <p>3 4 6 13</p>
<p>Junior Year - Fall Semester</p> <p>ET 3017 Industrial Electronics GEOG 3201 The Cultural Landscape (GE) SAFE 3070 Safety Leadership Free Choice Electives Semester Total</p>	<p>Hrs</p> <p>4 3 3 6 16</p>	<p>Junior Year - Spring Semester</p> <p>ENGT 3562 Computer Numerical Control (CNC)* INDM 4260 Organizational Dynamics Free Choice Electives Semester Total</p>	<p>Hrs</p> <p>3 3 8 14</p>
<p>Junior-to-Senior Year - Summer Semester</p> <p>SOT 3022 Internship in Technology Semester Total</p>	<p>Hrs</p> <p>3 3</p>		
<p>Senior Year - Fall Semester</p> <p>ENGT 4520 Robotics and Automation INDM 4210 Industrial Management INDM 4250 Project Management Free Choice Electives Semester Total</p>	<p>Hrs</p> <p>3 3 3 6 15</p>	<p>Senior Year - Spring Semester</p> <p>ENGT 4110 Engineering Technology Problem Solving ENGT 4580 Quality Systems Engineering Free Choice Electives Semester Total</p>	<p>Hrs</p> <p>3 3 8 14</p>

Innovative Technologies, B.S. Degree (Option 3: Robotics and Automation) - 120 hours

- *This course is only offered during the semester indicated.
- 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)

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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 1300 Interior Design Drafting I	3	ART 1325 Color and Design	3
ART 1315 2-D Design	3	ART 2310 Interior Design Studio I	3
ENGL 1020 Composition I (GE)	3	ART 2335 3-D Design	3
General Education	3	ENGL 1030 Composition II or CTE 3060 Technical Writing (GE)	3
Semester Total	15	Semester Total	15
AE 1400 Freshman Seminar*	1		
Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
ART 2300 Interior Design Drafting II	3	ART 1800 Ideas & the Visual Arts (GE)	3
ART 2305 Interior Design Presentation Techniques	3	ART 2350 Interior Design Building Codes and Regulations	3
ART 2320 Building Systems & Sustainability	3	ART 2360 Interior Design Environmental Systems	3
ART 2340 Materials, Methods, and Specifications	3	ART 3310 Interior Design Studio II	3
General Education	3	ART Major Elective**	3
Semester Total	15	Semester Total	15
Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
ART 1835 Global Arts and Culture (GE)	3	ART 3850 History of Furniture and Interiors II	3
ART 3330 Interior Design Studio III	3	ART 3320 Professional Practice for Interior Design I	1
ART 3350 Construction Documentation for Interior Design	3	ART 3340 Interior Detailing & Furniture Design	3
ART 3800 History of Furniture and Interiors I	3	ART 4340 Interior Design Studio IV	3
ART Major Elective**	3	General Education	6
General Education	3	Semester Total	16
Semester Total	18		
Junior Year - Summer Semester	Hrs		
ART 4310 Design Internship	1		
Semester Total	1		
Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
ART 4350 Interior Design Thesis I	3	ART 4320 Professional Practice for Interior Designers II***	2
ART 4221 Art Theory and Criticism	3	ART 4360 Interior Design Thesis II	3
ART 4850 20th Century Art & Architecture	3	General Education	9
General Education	6	Semester Total	14
Semester Total	15		

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.
- ***ART 3320 Professional Practice for Interior Designers is only offered Spring semester of even numbered years (2010, 2012, etc.). Students planning to graduate in the Spring or Fall of odd numbered years should take ART 3320 during their Junior year and adjust their enrollment in general education classes to compensate.
- To satisfy the General Education Assessment (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 2014 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 Technical Writing (GE)	3
IS 1000 Introduction to International Studies (GE)	3	POLS 2520 Comparative Government and Politics	3
Modern Language Requirement (GE)*	3	Modern Language Requirement*	3
General Education	6	General Education	6
Semester Total	15	Semester Total	15
AE 1400 Freshman Seminar**	1		
Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
POLS 2530 International Relations (GE)	3	GEOG 2246 Economic Geography	3
Major Elective in a Geographic Specialization***	3	Major Elective in a Content Specialization#	3
Modern Language Requirement*	3	Major Elective in a Geographic Specialization***	3
General Education	6	Modern Language Requirement*	3
Semester Total	15	General Education	3
		Semester Total	15
Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
REL 3210 Comparative World Religions	3	Free Choice Electives## (Suggested Overseas Study, Internship or Service Learning experience)	15
SOC 3885 Globalization and the Future	3	Semester Total	15
Major Electives in a Content Specialization#	6		
General Education	3		
Semester Total	15		
Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
ANTH 4870 Comparative Cultures	3	IS 4950 Senior Seminar	3
Major Elective in a Content Specialization#	3	Free Choice Electives	12
General Education	6	Semester Total	15
Free Choice Electives	3		
Semester Total	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 Undergraduate Catalog for course selections.
- #Students will choose 12 credit hours of Major Electives in a Content Specialization Courses from one of the four content Specialization areas (1 - The Global Society and Culture, 2 - International Relations, Peace and Justice, 3 - International Political Economy and Policy Studies, or 4 - Human Development and the Physical Environment). A minimum of six credit hours of this 12 must be at the upper level (3000/4000). See the Undergraduate Catalog for course selections.
- ##Students in this major are required to complete an International Experience Requirement (1 - study abroad program, 2 - international internship, or 3 - international service learning program). The experience must be approved by the International Studies director.
- Students must earn 30 hours of upper level credits overall to meet graduation requirements. Make choices in the major electives and/or general education accordingly.
- To satisfy the General Education Assessment (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.

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

This guide is valid for the 2014 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
CIS 1600 Business Information Management (GE)*		3	COMM 1000 Public Speaking or		
ECON 1010 Principles of Macroeconomics (GE)*		3	COMM 1050 Fundamentals of Oral Communication Competency (GE)		3
ENGL 1020 Composition I (GE)		3	ECON 1011 Principles of Microeconomics*		3
MATH 1111 College Algebra (GE)*		3	ENGL 1030 Composition II or CTE 3060 Technical Writing (GE)		3
General Education or			General Education		6
MGT 1320 for an Exhibiting Leadership Major Elective++		3	Semester Total		15
Semester Total		15			
AE 1400 or BADM 1400 Freshman Seminar**		1			

Sophomore Year - Fall Semester		Hrs	Sophomore Year - Spring Semester		Hrs
ACCT 2101 Principles of Financial Accounting*		3	ACCT 2102 Principles of Managerial Accounting*		3
BLAW 2720 Legal Environment of Business*		3	FIN 2801 Business Statistics I*		3
General Education		10	General Education		6
Semester Total		16	Free Choice Elective		3
			Semester Total		15

Note: Complete all BSBA Admission requirements.*

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

Senior Year - Fall Semester		Hrs	Senior Year - Spring Semester		Hrs
MGT 3345 International Management+		1-3	HM 4820 or MGT 4370 or Free Choice Elective+		
MGT 4310 Quality and Innovation		3	(if MGT 3345 was taken for 1 hour in the prior semester, take		
MGT 4325 Management Communication		3	HM 4820 or MGT 4370; if MGT 3345 was taken for 3 hours,		
HM 4820 Sustainability & Operations Management or			take 1 hour of Free Choice Elective)		1 or 3
MGT 4370 Supply Chain Management+		3	MGT 4320 Leading & Managing Teams & Organizations		3
Exhibiting Leadership Major Elective++ or General Education			MGT 4357 Organizational Policy & Strategy		3
(choice will depend on what was taken in first semester)		3	Exhibiting Leadership Major Elective++		3
Free Choice Electives (internship recommended)		1-2	Free Choice Electives (internship recommended)		3
Semester Total		14-17	Semester Total		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 2014 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 2014 Undergraduate Catalog for more details.
- 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 2014 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
CIS 1600 Business Information Management (GE)*	3	COMM 1000 Public Speaking or COMM 1050 Fundamentals of Oral Communication Competency (GE)	3
ECON 1010 Principles of Macroeconomics (GE)*	3	ECON 1011 Principles of Microeconomics*	3
ENGL 1020 Composition I (GE)	3	ENGL 1030 Composition II or CTE 3060 Technical Writing (GE)	3
MATH 1111 College Algebra (GE)*	3	General Education	6
General Education	3	Semester Total	15
Semester Total	15		
MKT 1400 Orientation to Marketing**	1		
Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
ACCT 2101 Principles of Financial Accounting*	3	ACCT 2102 Principles of Managerial Accounting*	3
BLAW 2720 Legal Environment of Business*	3	FIN 2801 Business Statistics I*	3
General Education	9	General Education	7
Semester Total	15	Free Choice Electives	2
		Semester Total	15
Note: Complete all B.S.B.A. Admission requirements.*			
Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
CIS 3630 Management Information Systems#	3	MGT 3325 Business Communications	3
FIN 3801 Business Statistics II	3	MGT 3360 Production/Operations Management	3
FIN 3850 Principles of Finance	3	MKT 3430 Professional Sales	3
MGT 3315 Management of Organizations#	3	MKT 3480 Consumer Behavior	3
MKT 3405 Marketing Policy#	3	Marketing Major Elective***#	3
Semester Total	15	Semester Total	15
Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
MKT 4460 International Marketing	3	MGT 4357 Organizational Policy & Strategy	3
MKT 4470 Marketing Research	3	MKT 4490 Marketing Management	3
Marketing Major Electives***	6	Marketing Major Electives***	6
Free Choice Electives	3	Free Choice Electives	3
Semester Total	15	Semester Total	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.
- *** 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, and MKT 4454. See Department Chair 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.
- 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 2014 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
CS 1100 Computer Programming I	3	ENGL 1030 Composition II or CTE 3060 Technical Writing (GE)	3
ENGL 1020 Composition I (GE)	3	MATH 1152 Calculus & Analytic Geometry II	5
MATH 1151 Calculus & Analytic Geometry I (GE)	5	MATH 2410 Discrete Mathematics	3
General Education	3	General Education	3
Semester Total	14	Semester Total	14
AE 1400 Freshman Seminar*	1		
Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
MATH 2153 Calculus & Analytic Geometry III	3	MATH 3151 Differential Equations**	3
MATH 3710 Linear Algebra	3	Major Elective***	3
General Education	9	General Education	9
Semester Total	15	Semester Total	15
Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
MATH 3311 Introduction to Mathematical Statistics**	3	Major Elective***	3
MATH 4710 Algebraic Structures**	3	Free Choice Electives	13
General Education	9	Semester Total	16
Semester Total	15		
Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
MATH 4150 Advanced Calculus I**	3	MATH 4233 The Sci., Historical, & Sociological Impact of Math**	3
MATH 4711 Introduction to Modern Algebra**	3	Major Elective***	3
Free Choice Electives	10	Free Choice Electives	9
Semester Total	16	Semester Total	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 Undergraduate Catalog for the list of choices.
- This major does not build in the minimum number (30) of upper-level credit hours required for graduation. Be sure to include upper-level choices (3000/4000) in your major electives, general education, and/or free choice electives.
- 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.

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

This guide is valid for the 2014 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
CS 1100 Computer Programming I	3	ENGL 1030 Composition II or CTE 3060 Technical Writing (GE)	3
ENGL 1020 Composition I (GE)	3	MATH 1152 Calculus & Analytic Geometry II	5
MATH 1151 Calculus & Analytic Geometry I (GE)	5	MATH 2410 Discrete Mathematics	3
General Education	3	General Education	3
Semester Total	14	Semester Total	14
AE 1400 Freshman Seminar*	1		
Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
MATH 2153 Calculus & Analytic Geometry III	3	MATH 3151 Differential Equations**	3
MATH 3710 Linear Algebra	3	Major Elective***	3
General Education	9	General Education	9
Semester Total	15	Semester Total	15
Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester#	Hrs
MATH 3311 Introduction to Mathematical Statistics**	3	Major Elective***	3
MATH 4710 Algebraic Structures**	3	Free Choice Electives	13
General Education	9	Semester Total	16
Semester Total	15		
Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester##	Hrs
MATH 4150 Advanced Calculus I**	3	MATH 4233 The Sci., Historical, & Sociological Impact of Math**	3
MATH 4711 Introduction to Modern Algebra**	3	Major Elective***	3
Free Choice Electives	9	Graduate-level Elective in MATH###	3
Semester Total	15	Free Choice Electives	6
		Semester Total	15
Fifth Year - Fall Semester	Hrs	Fifth Year - Spring Semester	Hrs
MATH 4211 Topology I	3	MATH 5150 Advanced Calculus II or MATH 5180 Real Analysis	3
Graduate-level Electives in MATH###	9	MATH 5711 Adv. Group & Field Theory or MATH 5722 Adv. Ring & Module Theory	3
Semester Total	12	Graduate-level Elective in MATH###	3
		Semester Total	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.
- 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 2014 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.

<p>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</p>	<p>Hrs 3 3 5 .5 4 15.5</p>	<p>Freshman Year - Spring Semester ENGL 1030 Composition II or CTE 3060 Technical Writing (GE) HIST 1350 or 1351 History of the United States (GE) MATH 1152 Calculus & Analytic Geometry II MATH 2410 Discrete Mathematics General Education Managing Information Semester Total</p>	<p>Hrs 3 3 5 3 2-3 16-17</p>
<p>Sophomore Year - Fall Semester EDFL 2100 Foundations of Education EDFL 2240 Educational Psychology (GE) FLDX 2150 Introductory Field Experience EDSP 2100 Education of the Exceptional Child MATH 2221 Foundations of Geometry* MATH 3710 Linear Algebra Semester Total</p>	<p>Hrs 2 3 1 2 3 3 14</p>	<p>Sophomore Year - Spring Semester MATH 2861 Advanced Perspectives on HS Mathematics* MATH 4851 Prob. & Statistics for Mid./High School Math* POLS 1510 American Government (GE) General Education Semester Total <i>(Successfully complete MoGEA exam by end of this semester)</i></p>	<p>Hrs 3 3 3 6 15</p>
<p>Junior Year - Fall Semester MATH 3850 Strategies in Teaching Secondary Math* MATH 4710 Algebraic Structures* PSY 4230 Adolescent Psychology General Education Semester Total</p>	<p>Hrs 3 3 3 6 15</p>	<p>Junior Year - Spring Semester EDFL 4210 The Teaching of Reading in the Secondary School MATH 2862 Adv. Perspective on Secondary Geometry & Trig. MATH 4233 The Scientific, Historical, Soc. Impact of Math* General Education Free Choice Elective Semester Total</p>	<p>Hrs 2 3 3 6 2.5 16.5</p>
<p>Senior Year - Fall Semester EDFL 3500 Secondary Teaching & Behavior Management FLDX 3550 Practicum in Secondary Instruction EDFL 4300 Educational Measurement & Evaluation MATH 4880 Issues and Methods of Teaching Secondary Math Free Choice Electives Semester Total</p>	<p>Hrs 3 1 2 2 8 16</p>	<p>Senior Year - Spring Semester + FLDX 4595 Student Teaching Secondary I FLDX 4468 Student Teaching Secondary II Semester Total</p>	<p>Hrs 6 6 12</p>

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

- *This course is only offered during the semester indicated.
- +The courses listed for this semester constitute the professional education (student teaching) block. The student should not take any other courses during this semester.
- The Missouri General Education Assessment (MoGEA) is an exam required of all Teacher Education students. Students must pass all five 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.
- 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 2014 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 2512 Cell Biology	3
BIOL 1110 Principles of Biology or BIOL 1112 Animal Biology*	3-4	BIOL 3401 Human Anatomy	3
CHEM 1131 General Chemistry I (GE)	5	CHEM 1132 General Chemistry II	5
ENGL 1020 Composition I (GE)	3	ENGL 1030 Composition II or CTE 3060 Technical Writing (GE)	3
MATH 1111 College Algebra (GE)	3	General Education	3
Semester Total	15-16	Semester Total	17

Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
BIOL 3402 Human Physiology	5	BIOL 3611 Microbiology	4
BIOL 3511 Genetics	4	BIOL 4514 Molecular Biology	3
CHEM 3341 Organic Chemistry I	4	MATH 1300 Basic Statistics (GE)** or PSY 4520 Statistics for Behavioral Sciences	3
General Education	3	General Education	6
Semester Total	16	Semester Total	16

Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
BIOL 4002 Life Science Senior Seminar	1	BIOL 3413 Immunology	3
BIOL 4311 Parasitology	4	BIOL 4516 Hematology/Virology+	3
CHEM 3421 Intermediate Biochemistry	3	General Education	9
General Education	8	Semester Total	15
Semester Total	16		

Senior Year - Summer Semester	Hrs
BIOL 4015 Clinical Immunohematology	4
BIOL 4016 Clinical Urinalysis	2
Semester Total	6

Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
BIOL 4017 Clinical Microbiology	7	BIOL 4019 Clinical Biochemistry	7
BIOL 4018 Clinical Immunology	5	BIOL 4020 Clinical Hematology	4
Semester Total	12	BIOL 4021 Clinical Special Topics	1
		Semester Total	12

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

- *BIOL 1112 is recommended over BIOL 1110.
- **If MATH 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 (MATH 1300 chosen over PSY 4520).
- 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 - Business Education Subject Area, B.S. in Ed. Degree (41-840)

This guide is valid for the 2014 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.

<p>Freshman Year - Fall Semester BTE 1210 Essentials of Managing Information (GE) ENGL 1020 <i>Composition I (GE)</i> POLS 1510 <i>American Government (GE)</i> General Education Semester Total</p>	<p>Hrs 2 3 3 6 14</p>	<p>Freshman Year - Spring Semester CTE 3060 <i>Technical Writing (GE)</i> EDFL 2100 Foundations of Education 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 Math Semester Total</p>	<p>Hrs 3 2 1 3 2 3 3 17</p>
<p>Sophomore Year - Fall Semester BTE 4535 Data Input Technologies Second Subject Area* General Education Science w/lab General Education Semester Total</p>	<p>Hrs 2 3 4 6 15</p>	<p>Sophomore Year - Spring Semester BTE 4536 Integrated Productivity Applications CTE 3110 Financial Management Education Second Subject Area* General Education Semester Total <i>(Successfully complete MoGEA exam by end of this semester)</i></p>	<p>Hrs 3 3 6 6 18</p>
<p>Junior Year - Fall Semester BTE 4560 Emerging Technologies for Business CTE 3060 Technical Writing EDFL 3230 Intro. to Lang., Literacy and Lit. in the ML Classroom (fall only) EDFL 4130 Fundamentals of Middle Level Education (fall only) EDFL 4300 Educational Measurement & Evaluation Second Subject Area (overlap with General Education Class)* Semester Total</p>	<p>Hrs 3 3 4 3 2 3 18</p>	<p>Junior Year - Spring Semester CTE 4501 Managing Classroom Technologies EDFL 3240 Appl. of Lang., Literacy, & Lit. in the ML Classroom (spring only) EDFL 4135 Middle Level Curriculum & Assessment (spring only) PSY 4230 Psychology of Adolescence Second Subject Area* Semester Total</p>	<p>Hrs 2 4 3 3 6 18</p>
<p>Senior Year - Fall Semester BTE 4210 Methods of Teaching Business & Marketing Edu. CTE 4280 Implementing CTE Program and Lab Management EDFL 4340 The Engaging Middle Level Classroom (fall only) Second Subject Area Teaching Methods Course Second Subject Area* General Education Semester Total</p>	<p>Hrs 3 3 3 3 3 3 18</p>	<p>Senior Year - Spring Semester** FLDX 4497 Student Teaching Middle School I FLDX 4498 Student Teaching Middle School II Semester Total</p>	<p>Hrs 6 6 12</p>

Middle School Education Major - Business Education Subject Area, B.S. in Ed. Degree - 124-130* hours

- *Middle school majors must choose a second subject area for certification. The subject areas are: Business Education, Language Arts, Math, Science, Social Science, Speech/Theatre, and Engineering and Technology. Each subject area is 23-25 hours plus a teaching methods course. This plan is based on a 24 credit-hour second subject area. Students should work with their academic advisor early for selection of courses as all areas have some overlap with general education coursework. This may help to reduce required hours and/or increase free choice elective 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.
- The Missouri General Education Assessment (MoGEA) is an exam required of all Teacher Education students. Students must pass all five 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.
- 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 - Engineering and Technology Subject Area, B.S. in Ed. Degree (41-840)

This guide is valid for the 2014 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
<i>ENGL 1020 Composition I (GE)</i>	3
<i>POLS 1510 American Government (GE)</i>	3
<i>CTE Major Area Elective (CTE 2000 recommended for overlap with general education Managing Information)*</i>	3
General Education	6
Semester Total	15

Freshman Year - Spring Semester	Hrs
<i>CTE Major Area Elective*</i>	3
EDFL 2100 Foundations of Education	2
FLDX 2150 Introductory Field Experience	1
EDFL 2240 Educational Psychology (GE)	3
EDSP 2100 Education of Exceptional Child	2
<i>ENGL 1030 Composition II or CTE 3060 Technical Writing (GE)</i>	3
<i>General Education Math</i>	3
Semester Total	17

Sophomore Year - Fall Semester	Hrs
<i>CTE Major Area Elective*</i>	3
HIST 1350 or 1351 History of the United States (GE)	3
<i>General Education Science w/lab</i>	4
Second Subject Area**	3
Second Subject Area (overlap with General Education Class)*	3
Semester Total	16

Sophomore Year - Spring Semester	Hrs
<i>CTE Major Area Elective*</i>	3
Second Subject Area**	6
General Education	6
Semester Total	15
<i>(Successfully complete MoGEA exam by end of this semester)</i>	

Junior Year - Fall Semester	Hrs
EDFL 3230 Intro. to Lang., Literacy and Lit. in the ML Classroom (fall only)	4
EDFL 4130 Fundamentals of Middle Level Education (fall only)	3
EDFL 4300 Educational Measurement & Evaluation	2
<i>CTE Major Area Elective*</i>	3
General Education	3
Semester Total	15

Junior Year - Spring Semester	Hrs
EDFL 3240 Appl. of Lang., Literacy, & Lit. in the ML Classroom (spring only)	4
EDFL 4135 Middle Level Curriculum & Assessment (spring only)	3
PSY 4230 Psychology of Adolescence	3
<i>CTE Major Area Elective*</i>	3
Second Subject Area**	3
Semester Total	16

Senior Year - Fall Semester	Hrs
CTE 4125 Methods of Teaching Problem-based Learning	3
EDFL 4340 The Engaging Middle Level Classroom (fall only)	2
<i>CTE Major Area Elective*</i>	3
Second Subject Area**	6
General Education	3
Semester Total	15

Senior Year - Spring Semester***	Hrs
FLDX 4497 Student Teaching Middle School I	6
FLDX 4498 Student Teaching Middle School II	6
Semester Total	12

Middle School Education Major - Engineering and Technology Subject Area, B.S. in Ed. Degree - 121 hours

- *Twenty-one hours of CTE Major Area Electives are required. Students should work with their program coordinator for course recommendations.
- **Middle school majors must choose a second subject area for certification. The subject areas are: Business Education, Language Arts, Math, Science, Social Science, Speech/Theatre, and Engineering and Technology. Each subject area is 23-25 hours plus a teaching methods course. This plan is based on a 24 credit-hour second subject area. Students should work with their academic advisor early for selection of courses as all areas have some overlap with general education coursework. This may help to reduce required hours and/or increase free choice elective 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.
- The Missouri General Education Assessment (MoGEA) is an exam required of all Teacher Education students. Students must pass all five 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.
- 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 2014 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.

<p>Freshman Year - Fall Semester ENGL 1020 Composition I (GE) POLS 1510 American Government (GE) General Education Math General Education Semester Total</p>	<p>Hrs 3 3 3 6 15</p>	<p>Freshman Year - Spring Semester EDFL 2100 Foundations of Education FLDX 2150 Introductory Field Experience EDFL 2240 Educational Psychology (GE) EDSP 2100 Education of Exceptional Child ENGL 1030 Composition II HIST 1350 or 1351 History of the United States (GE) General Education Managing Information Semester Total</p>	<p>Hrs 2 1 3 2 3 3 2-3 16-17</p>
<p>Sophomore Year - Fall Semester Language Arts Subject Area Electives* Second Subject Area** (overlap with general education) General Education Science w/lab General Education Semester Total</p>	<p>Hrs 4 3 4 3 14</p>	<p>Sophomore Year - Spring Semester Second Subject Area** ENGL 2200, 2205, 2210, 2215, or 2220 (GE) General Education Semester Total <i>(Successfully complete MoGEA exam by end of this semester)</i></p>	<p>Hrs 9 3 3 15</p>
<p>Junior Year - Fall Semester EDFL 3230 Intro. to Lang., Literacy and Lit. in the ML Classroom (fall only) EDFL 4130 Fundamentals of Middle Level Education (fall only) EDFL 4300 Educational Measurement & Evaluation Second Subject Area** Free Choice Elective (need depends on overlap between major choices and general education) Semester Total</p>	<p>Hrs 4 3 2 6 1 16</p>	<p>Junior Year - Spring Semester EDFL 3240 Appl. of Lang., Literacy, & Lit. in the ML Classroom (spring only) EDFL 4135 Middle Level Curriculum & Assessment (spring only) EDFL 4230 Response to Intervention for ML English LA PSY 4230 Psychology of Adolescence Free Choice Electives Semester Total</p>	<p>Hrs 4 3 4 3 2 16</p>
<p>Senior Year - Fall Semester EDFL 4235 Methods of Teaching Middle Level English LA EDFL 4240 Teaching English Language Arts EDFL 4340 The Engaging Middle Level Classroom (fall only) Second Subject Area* Semester Total</p>	<p>Hrs 3 4 3 6 16</p>	<p>Senior Year - Spring Semester*** FLDX 4497 Student Teaching Middle School I FLDX 4498 Student Teaching Middle School II Semester Total</p>	<p>Hrs 6 6 12</p>

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

- *The department recommends ENGL 3110 and/or ENGL 4840 for the Language Arts Subject Area Electives. If both classes are selected, the two hours of Free Choice Electives in the junior year (spring) are not needed.
- **Middle school majors must choose a second subject area for certification. The subject areas are: Business Education, Language Arts, Math, Science, Social Science, Speech/Theatre, and Engineering and Technology. Each subject area is 23-25 hours plus a teaching methods course. This plan is based on a 24 credit-hour second subject area. Students should work with their academic advisor early for selection of courses as all areas have some overlap with general education coursework. This may help to reduce required hours and/or increase free choice elective 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.
- The Missouri General Education Assessment (MoGEA) is an exam required of all Teacher Education students. Students must pass all five 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.
- 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 - Math Subject Area, B.S. in Ed. Degree (41-840)

This guide is valid for the 2014 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.

<p>Freshman Year - Fall Semester ENGL 1020 Composition I (GE) MATH 1620 Contemporary Math (GE)* POLS 1510 American Government (GE) General Education Semester Total</p>	<p>Hrs 3 3 3 6 15</p>	<p>Freshman Year - Spring Semester EDFL 2100 Foundations of Education FLDX 2150 Introductory Field Experience EDFL 2240 Educational Psychology (GE) EDSP 2100 Education of Exceptional Child ENGL 1030 Composition II or CTE 3060 Technical Writing (GE) HIST 1350 or 1351 History of the United States (GE) General Education Managing Information Semester Total</p>	<p>Hrs 2 1 3 2 3 3 2-3 16-17</p>
<p>Sophomore Year - Fall Semester MATH 2821 Elements of Algebra* Second Subject Area** General Education Science with a Laboratory General Education Semester Total</p>	<p>Hrs 3 6 4 3 16</p>	<p>Sophomore Year - Spring Semester EDFL 4300 Educational Measurement & Evaluation MATH 2822 Elements of Geometry* Second Subject Area** General Education Semester Total <i>(Successfully complete MoGEA exam by end of this semester)</i></p>	<p>Hrs 2 3 6 6 17</p>
<p>Junior Year - Fall Semester EDFL 3230 Intro. to Lang., Literacy and Lit. in the ML Classroom (fall only) EDFL 4130 Fundamentals of Middle Level Education (fall only) MATH 2823 Introduction to Infinite Processes* Second Subject Area** Semester Total</p>	<p>Hrs 4 3 5 3 15</p>	<p>Junior Year - Spring Semester EDFL 3240 Appl. of Lang., Literacy, & Lit. in the ML Classroom (spring only) EDFL 4135 Middle Level Curriculum & Assessment (spring only) PSY 4230 Psychology of Adolescence MATH 3800 Intro. Teaching Elementary and MS Math* MATH 3802 Concepts and Methods Middle School Math* MATH 4851 Probability and Statistics Mid/HS Math* Semester Total</p>	<p>Hrs 4 3 3 2 3 3 18</p>
<p>Senior Year - Fall Semester EDFL 4340 The Engaging Middle Level Classroom (fall only) MATH 3840 Strategies for Teaching Middle School Math* Second Subject Area (overlap with General Education Class)** Second Subject Area Semester Total</p>	<p>Hrs 3 3 3 3 12</p>	<p>Senior Year - Spring Semester** FLDX 4497 Student Teaching Middle School I FLDX 4498 Student Teaching Middle School II Semester Total</p>	<p>Hrs 6 6 12</p>

Middle School Education Major - Math Subject Area, B.S. in Ed. Degree - 120-124 hours

- *Math subject area courses should be taken in the order listed to graduate in four years.
- **Middle school majors must choose a second subject area for certification. The subject areas are: Business Education, Language Arts, Math, Science, Social Science, Speech/Theatre, and Engineering and Technology. Each subject area is 23-25 hours plus a teaching methods course. This plan is based on a 24 credit-hour second subject area. Students should work with their academic advisor early for selection of courses as all areas have some overlap with general education coursework. This may help to reduce required hours and/or increase free choice elective 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.
- The Missouri General Education Assessment (MoGEA) is an exam required of all Teacher Education students. Students must pass all five 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.
- 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 - Science Subject Area, B.S. in Ed. Degree (41-840)

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<p>Freshman Year - Fall Semester Any BIOL, CHEM, EASC, PHYS Course listed in General Education ENGL 1020 Composition I (GE) POLS 1510 American Government (GE) General Education Math Semester Total</p>	<p>Hrs 3 3 3 6 15</p>	<p>Freshman Year - Spring Semester Any BIOL, CHEM, EASC, PHYS Course with a lab listed in General Education EDFL 2100 Foundations of Education FLDX 2150 Introductory Field Experience EDFL 2240 Educational Psychology (GE) EDSP 2100 Education of Exceptional Child ENGL 1030 Composition II or CTE 3060 Technical Writing (GE) General Education Communication Semester Total</p>	<p>Hrs 4 2 1 3 2 3 3 16</p>
<p>Sophomore Year - Fall Semester HIST 1350 or 1351 History of the United States (GE) General Education Semester Total</p>	<p>Hrs 3 11 14</p>	<p>Sophomore Year - Spring Semester Second Subject Area* Any BIOL, CHEM, EASC, PHYS Courses Semester Total <i>(Successfully complete MoGEA exam by end of this semester)</i></p>	<p>Hrs 6 6 15</p>
<p>Junior Year - Fall Semester Any BIOL, CHEM, EASC, PHYS Course EDFL 3230 Intro. to Lang., Literacy and Lit. in the ML Classroom (fall only) EDFL 4130 Fundamentals of Middle Level Education (fall only) EDFL 4300 Educational Measurement & Evaluation Second Subject Area* Semester Total</p>	<p>Hrs 4 4 3 2 3 16</p>	<p>Junior Year - Spring Semester Any BIOL, CHEM, EASC, PHYS Course EDFL 3240 Appl. of Lang., Literacy, & Lit. in the ML Classroom (spring only) EDFL 4135 Middle Level Curriculum & Assessment (spring only) PSY 4230 Psychology of Adolescence Second Subject Area* Semester Total</p>	<p>Hrs 4 4 3 3 3 16</p>
<p>Senior Year - Fall Semester EDFL 4340 The Engaging Middle Level Classroom (fall only) STCH 4050 Science Teaching Methods Second Subject Area Free Choice Elective (hours needed will depend on major choices and possible overlap with general education) Semester Total</p>	<p>Hrs 3 3 9 1 15</p>	<p>Senior Year - Spring Semester** FLDX 4497 Student Teaching Middle School I FLDX 4498 Student Teaching Middle School II Semester Total</p>	<p>Hrs 6 6 12</p>

Middle School Education Major - Science Subject Area, B.S. in Ed. Degree - 122 hours

- *Middle school majors must choose a second subject area for certification. The subject areas are: Business Education, Language Arts, Math, Science, Social Science, Speech/Theatre, and Engineering and Technology. Each subject area is 23-25 hours plus a teaching methods course. This plan is based on a 24 credit-hour second subject area. Students should work with their academic advisor early for selection of courses as all areas have some overlap with general education coursework. This may help to reduce required hours and/or increase free choice elective 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.
- The Missouri General Education Assessment (MoGEA) is an exam required of all Teacher Education students. Students must pass all five 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.
- 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)

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<p>Freshman Year - Fall Semester ENGL 1020 Composition I (GE) POLS 1510 American Government (GE) General Education Math General Education Semester Total</p>	<p>Hrs 3 3 3 6 15</p>	<p>Freshman Year - Spring Semester EDFL 2100 Foundations of Education FLDX 2150 Introductory Field Experience EDFL 2240 Educational Psychology (GE) EDSP 2100 Education of Exceptional Child ENGL 1030 Composition II or CTE 3060 Technical Writing (GE) HIST 1350 or 1351 History of the United States (GE) General Education Managing Information Semester Total</p>	<p>Hrs 2 1 3 2 3 3 2-3 16-17</p>
<p>Sophomore Year - Fall Semester Any ANTH, ECON, GEOG, HIST, POLS, or SOC class from the Engagement category in General Education Second Subject Area* General Education Science w/lab General Education Semester Total</p>	<p>Hrs 3 3 4 5 15</p>	<p>Sophomore Year - Spring Semester Any ANTH, ECON, GEOG, HIST, POLS, or SOC class Second Subject Area* General Education Semester Total <i>(Successfully complete MoGEA exam by end of this semester)</i></p>	<p>Hrs 6 6 3 15</p>
<p>Junior Year - Fall Semester Any ANTH, ECON, GEOG, HIST, POLS, or SOC class EDFL 3230 Intro. to Lang., Literacy and Lit. in the ML Classroom (fall only) EDFL 4130 Fundamentals of Middle Level Education (fall only) EDFL 4300 Educational Measurement & Evaluation Second Subject Area (overlap with General Education Class)* Free Choice Elective Semester Total</p>	<p>Hrs 3 4 3 2 3 1 16</p>	<p>Junior Year - Spring Semester Any ANTH, ECON, GEOG, HIST, POLS, or SOC class EDFL 3240 Appl. of Lang., Literacy, & Lit. in the ML Classroom (spring only) EDFL 4135 Middle Level Curriculum & Assessment (spring only) PSY 4230 Psychology of Adolescence Second Subject Area* Semester Total</p>	<p>Hrs 3 4 3 3 3 16</p>
<p>Senior Year - Fall Semester ECEL 3420 Teaching Social Studies & Economics Elem. School EDFL 4340 The Engaging Middle Level Classroom (fall only) Second Subject Area* Semester Total</p>	<p>Hrs 3 3 9 15</p>	<p>Senior Year - Spring Semester** FLDX 4497 Student Teaching Middle School I FLDX 4498 Student Teaching Middle School II Semester Total</p>	<p>Hrs 6 6 12</p>

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

- *Middle school majors must choose a second subject area for certification. The subject areas are: Business Education, Language Arts, Math, Science, Social Science, Speech/Theatre, and Engineering and Technology. Each subject area is 23-25 hours plus a teaching methods course. This plan is based on a 24 credit-hour second subject area. Students should work with their academic advisor early for selection of courses as all areas have some overlap with general education coursework. This may help to reduce required hours and/or increase free choice elective 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.
- The Missouri General Education Assessment (MoGEA) is an exam required of all Teacher Education students. Students must pass all five 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.
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Middle School Education Major - Speech/Theatre Subject Area, B.S. in Ed. Degree (41-840)

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<p>Freshman Year - Fall Semester ENGL 1020 Composition I (GE) POIS 1510 American Government (GE) THEA 2400 Discovering Theatre (GE) General Education Semester Total</p>	<p>Hrs 3 3 3 6 15</p>	<p>Freshman Year - Spring Semester EDFL 2100 Foundations of Education FLDX 2150 Introductory Field Experience EDFL 2240 Educational Psychology (GE) EDSP 2100 Education of Exceptional Child ENGL 1030 Composition II or CTE 3060 Technical Writing (GE) General Education Math Any COMM/THEA Subject Area Class Semester Total</p>	<p>Hrs 2 1 3 2 3 3 3 17</p>
<p>Sophomore Year - Fall Semester Any COMM/THEA Subject Area Class EDSP 2100 Education of Exceptional Child HIST 1350 or 1351 History of the United States (GE) General Education Science w/lab General Education Semester Total</p>	<p>Hrs 3 3 4 5 15</p>	<p>Sophomore Year - Spring Semester Any COMM/THEA Subject Area Classes Second Subject Area* General Education Semester Total <i>(Successfully complete MoGEA exam by end of this semester)</i></p>	<p>Hrs 6 9 3 18</p>
<p>Junior Year - Fall Semester Any COMM/THEA Subject Area Class EDFL 3230 Intro. to Lang., Literacy and Lit. in the ML Classroom (fall only) EDFL 4130 Fundamentals of Middle Level Education (fall only) EDFL 4300 Educational Measurement & Evaluation Second Subject Area (overlap with General Education Class)* Semester Total</p>	<p>Hrs 3 4 3 2 3 15</p>	<p>Junior Year - Spring Semester EDFL 3240 Appl. of Lang., Literacy, & Lit. in the ML Classroom (spring only) EDFL 4135 Middle Level Curriculum & Assessment (spring only) PSY 4230 Psychology of Adolescence Any COMM/THEA Subject Area Classes Semester Total</p>	<p>Hrs 4 3 3 6 16</p>
<p>Senior Year - Fall Semester EDFL 4340 The Engaging Middle Level Classroom (fall only) THEA 4984 Methods of Teaching Speech & Theatre Second Subject Area* Semester Total</p>	<p>Hrs 3 2 12 17</p>	<p>Senior Year - Spring Semester** FLDX 4497 Student Teaching Middle School I FLDX 4498 Student Teaching Middle School II Semester Total</p>	<p>Hrs 6 6 12</p>

Middle School Education Major - Speech/Theatre Subject Area, B.S. in Ed. Degree - 125 hours

- *Middle school majors must choose a second subject area for certification. The subject areas are: Business Education, Language Arts, Math, Science, Social Science, Speech/Theatre, and Engineering and Technology. Each subject area is 23-25 hours plus a teaching methods course. This plan is based on a 24 credit-hour second subject area. Students should work with their academic advisor early for selection of courses as all areas have some overlap with general education coursework. This may help to reduce required hours and/or increase free choice elective 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.
- The Missouri General Education Assessment (MoGEA) is an exam required of all Teacher Education students. Students must pass all five 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.
- 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.

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

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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 Technical Writing (GE)	3
Intermediate I (FREN, GER, or SPAN)*+	3	Intermediate II (FREN, GER, or SPAN)*	3
General Education	9	General Education	9
Semester Total	15	Semester Total	15
AE 1400 Freshman Seminar**	1		
Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
2000/3000 level course (FREN, GER, or SPAN)*	3	3000 level courses (FREN, GER, or SPAN)*	6
3000 level course (FREN, GER, or SPAN)*	3	General Education	9
General Education	9	Semester Total	15
Semester Total	15		
Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
3000 level course (FREN, GER, or SPAN)*	3	4000 level courses (FREN, GER, or SPAN)*	6
3000/4000 level course (FREN, GER, or SPAN)*	3	Free Choice Electives	9
Free Choice Electives	9	Semester Total	15
Semester Total	15		
Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
4000 level course (FREN, GER, or SPAN)*	3	GISL 4244 Cross-Cultural Cinema	3
Free Choice Electives	12	4000 level course (FREN, GER, or SPAN)*	3
Semester Total	15	Free Choice Electives	9
		Semester Total	15

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

- *All 36 hours of the language requirement must be in the same modern foreign language (French, German, or Spanish).
- +Enrollment in Intermediate I requires completion of 6 hours of credit for Elementary Language I and Elementary Language II or equivalent proficiency. If you received college credit for these classes while in high school (dual credit), these credits will be applied to the major sequence. Students who have taken high school language courses (French, German or Spanish) may enroll beyond the Elementary I level, and may apply for Validated Credit for the class(es) skipped. A student completing Elementary II with a grade of C or higher will earn three credit hours for Elementary I at no tuition charge; a student completing Intermediate I with a grade of C or higher will earn six credit hours for Elementary I and II at no tuition charge.
- **AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- ARE YOU PLANNING TO TEACH A MODERN LANGUAGE? If so choose, Area 2 - Professional Applications of the Modern Languages major with the Education Concentration (K-12 Certification).
- To satisfy the General Education Assessment (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	Hrs	Freshman Year - Spring Semester	Hrs
ENGL 1020 Composition I (GE)	3	ENGL 1030 Composition II or CTE 3060 Technical Writing (GE)	3
Intermediate I (FREN, GER, or SPAN)* +	3	Intermediate II (FREN, GER, or SPAN)*	3
General Education	9	General Education	9
Semester Total	15	Semester Total	15
AE 1400 Freshman Seminar**	1		

Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
2000/3000 level course (FREN, GER, or SPAN)*	3	Major Marketing Concentration Elective	3
3000 level course (FREN, GER, or SPAN)*	3	3000 level courses (FREN, GER, or SPAN)*	6
General Education	9	General Education	6
Semester Total	15	Semester Total	15

Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
MKT 3405 Marketing Policy	3	MGT 3315 Management of Organizations	3
Major Marketing Concentration Elective	3	MKT 3430 Professional Sales	3
3000 level course (FREN, GER, or SPAN)*	3	4000 level courses (FREN, GER, or SPAN)*	6
3000/4000 level course (FREN, GER, or SPAN)*	3	Free Choice Electives	3
General Education	3	Semester Total	15
Semester Total	15		

Summer between Junior & Senior Year -	Hrs
Summer Semester	
MKT 3435 Internship in Marketing	6
Semester Total	6

Senior Year - Fall Semester	Hrs
Major Marketing Concentration Elective	3
MKT 3480 Consumer Behavior	3
4000 level course (FREN, GER, or SPAN)*	3
Free Choice Elective	3
Semester Total	12

Senior Year - Spring Semester	Hrs
GISL 4244 Cross-Cultural Cinema	3
MKT 4460 International Marketing	3
ML 4050 Language in the Professions/Translation	3
Free Choice Electives	3
Semester Total	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.
- 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	Hrs	Freshman Year - Spring Semester	Hrs
CJ 1000 Introduction to Criminal Justice (GE)	3	CJ 2315 The Criminal Court System	3
ENGL 1020 Composition I (GE)	3	ENGL 1030 Composition II or CTE 3060 Technical Writing (GE)	3
Intermediate I (FREN, GER, or SPAN)*+	3	Intermediate II (FREN, GER, or SPAN)*	3
General Education	6	General Education	6
Semester Total	15	Semester Total	15
AE 1400 Freshman Seminar**	1		

Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
CJ 3006 Corrections	3	CJ 3010 Policing a Democratic Society	3
2000/3000 level course (FREN, GER, or SPAN)*	3	3000 level courses (FREN, GER, or SPAN)*	6
3000 level course (FREN, GER, or SPAN)*	3	General Education	6
General Education	6	Semester Total	15
Semester Total	15		

Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
CJ 3020 Comparative Justice Systems	3	CJ 4503 Dynamics of Criminal Behavior	3
3000 level course (FREN, GER, or SPAN)*	3	CJ Elective	3
3000/4000 level course (FREN, GER, or SPAN)*	3	4000 level courses (FREN, GER, or SPAN)*	6
General Education	6	Free Choice Elective	3
Semester Total	15	Semester Total	15

Summer between Junior & Senior Year - Summer Semester	Hrs
CJ 4602 Internship in Criminal Justice	3
Semester Total	3

Senior Year - Fall Semester	Hrs
CJ Electives	6
4000 level course (FREN, GER, or SPAN)*	3
General Education	3
Free Choice Elective	3
Semester Total	15

Senior Year - Spring Semester	Hrs
GISL 4244 Cross-Cultural Cinema	3
ML 4050 Language in the Professions/Translation	3
Free Choice Electives	6
Semester Total	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.
- 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	Hrs	Freshman Year - Spring Semester	Hrs
ENGL 1020 Composition I (GE)	3	ENGL 1030 Composition II or CTE 3060 Technical Writing (GE)	3
HM 1800 Introduction to Hospitality (Fall only)	3	Intermediate II (FREN, GER, or SPAN)*	3
Intermediate I (FREN, GER, or SPAN)*+	3	General Education	9
General Education	6	Semester Total	15
Semester Total	15		
AE 1400 Freshman Seminar**	1		

Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
ACCT 2100 Survey of Accounting	3	HM 2830 Hotel-Restaurant Sanitation & Safety***	1
2000/3000 level course (FREN, GER, or SPAN)*	3	3000 level courses (FREN, GER, or SPAN)*	6
3000 level course (FREN, GER, or SPAN)*	3	General Education	6
General Education	6	Semester Total	13
Semester Total	15		

Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
FOOD 3333 Food Systems Management (Fall only)	3	HM 2830 Hotel-Restaurant Sanitation & Safety***	1
3000 level course (FREN, GER, or SPAN)*	3	MGT 3315 Management of Organizations	3
3000/4000 level course (FREN, GER, or SPAN)*	3	4000 level courses (FREN, GER, or SPAN)*	3
General Education	3	General Education	6
Free Choice Elective	3	Free Choice Elective	2
Semester Total	15	Semester Total	15

Summer between Junior & Senior Year - Summer Semester	Hrs
HM 4810 Internship	5
Semester Total	5

Senior Year - Fall Semester	Hrs
HM 2830 Hotel-Restaurant Sanitation & Safety***	1
HM 4850 Hospitality Operations Analysis (Fall only)	3
4000 level course (FREN, GER, or SPAN)*	3
Free Choice Electives	8
Semester Total	15

Senior Year - Spring Semester	Hrs
GISL 4244 Cross-Cultural Cinema	3
HM 4840 Legal Aspects of Hotel and Rest. Mgmt. (Spring only)	3
ML 4050 Language in the Professions/Translation	3
4000 level courses (FREN, GER, or SPAN)*	3
Semester Total	12

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

- *All 33 hours of the language requirement must be in the same modern foreign language (French, German, or Spanish).
- +Enrollment in Intermediate I requires completion of 6 hours of credit for Elementary Language I and Elementary Language II or equivalent proficiency. If you received college credit for these classes while in high school (dual credit), these credits will be applied to the major sequence. Students who have taken high school language courses (French, German or Spanish) may enroll beyond the Elementary I level, and may apply for Validated Credit for the class(es) skipped. A student completing Elementary II with a grade of C or higher will earn three credit hours for Elementary I at no tuition charge; a student completing Intermediate I with a grade of C or higher will earn six credit hours for Elementary I and II at no tuition charge.
- **AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- ***HM 2830 is a one-credit hour course that must be repeated for a total of three credit hours.
- 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	Hrs	Freshman Year - Spring Semester	Hrs
ENGL 1020 Composition I (GE)	3	ENGL 1030 Composition II or CTE 3060 Technical Writing (GE)	3
Intermediate I (FREN, GER, or SPAN)* +	3	Intermediate II (FREN, GER, or SPAN)*	3
General Education	9	General Education	9
Semester Total	15	Semester Total	15
AE 1400 Freshman Seminar**	1		

Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
COMM 2620 Introduction to Public Relations	3	COMM 2625 Writing & Editing for Public Relations	3
2000/3000 level course (FREN, GER, or SPAN)*	3	3000 level courses (FREN, GER, or SPAN)*	6
3000 level course (FREN, GER, or SPAN)*	3	General Education	6
General Education	6	Semester Total	15
Semester Total	15		

Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
COMM 3620 Strategic Planning for Public Relations	3	COMM 3010 Interpersonal Communication	3
3000 level course (FREN, GER, or SPAN)*	3	COMM 4680 Advanced PR Writing	3
3000/4000 level course (FREN, GER, or SPAN)*	3	4000 level courses (FREN, GER, or SPAN)*	6
General Education	3	Free Choice Elective	3
Free Choice Elective	3	Semester Total	15
Semester Total	15		

Summer between Junior & Senior Year -	Hrs
Summer Semester	
COMM 4605 PR Internship	3
Semester Total	3

Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
COMM 3100 Communication Research Methods	3	GISL 4244 Cross-Cultural Cinema	3
COMM 3340 Intercultural Communication (GE)	3	ML 4050 Language in the Professions/Translation	3
COMM 4670 Strategic Crisis Communication	3	4000 level courses (FREN, GER, or SPAN)*	3
POLS 4520 Principles of International Development	3	Free Choice Elective	3
Free Choice Elective	3	Semester Total	12
Semester Total	15		

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.
- 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	Hrs	Freshman Year - Spring Semester	Hrs
<i>ENGL 1020 Composition I (GE)</i>	3	<i>ENGL 1030 Composition II or CTE 3060 Technical Writing (GE)</i>	3
<i>POLS 1510 American Government (GE)</i>	3	<i>HIST 1350 or 1351 History of the United States (GE)</i>	3
Intermediate I (FREN, GER, or SPAN)*+	3	Intermediate II (FREN, GER, or SPAN)*	3
<i>General Education Science w/lab**</i>	4	<i>General Education Managing Information</i>	2-3
General Education Math	3	General Education	3
Semester Total	16	Semester Total	14-15
AE 1400 Freshman Seminar***	1		
Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
EDFL 2100 Foundations of Education	2	3000 level courses (FREN, GER, or SPAN)*	6
FLDX 2150 Introductory Field Experience	1	General Education	9
EDFL 2240 Educational Psychology	3	Semester Total	15
EDSP 2100 Education of the Exceptional Child	2	<i>(Successfully complete MoGEA exam by end of this semester)</i>	
2000/3000 level course (FREN, GER, or SPAN)*	3		
3000 level course (FREN, GER, or SPAN)*	3		
Semester Total	14		
Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
3000 level course (FREN, GER, or SPAN)*	3	CD 2000 The Bases of Speech and Language	2
4000 level course (FREN, GER, or SPAN)*	3	EDFL 4210 The Teaching of Reading in the Secondary School	2
General Education	3	EDFL 4300 Educational Measurement & Evaluation	2
Free Choice Electives	7	4000 level courses (FREN, GER, or SPAN)*	6
Semester Total	16	General Education	3
		Free Choice Electives	2
		Semester Total	17
Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
EDFL 3500 Secondary Teaching & Behavior Management	3	FLDX 4495 Student Teaching Elementary I	8
FLDX 3550 Practicum in Secondary Instruction	1	FLDX 4468 Student Teaching Secondary II	4
ML 4054 Methods of Teaching Foreign Language	3	Semester Total	12
PSY 4230 Adolescent Psychology (GE)	3		
4000 level course (FREN, GER, or SPAN)*	3		
Free Choice Electives	3		
Semester Total	16		

Modern Languages Major - Area 2: Professional Applications - Education Concentration (K-12 Certification), B.A. Degree 120 hours (114 hours taken on campus plus six hours of "validated credit" or "dual credit".)

- *All 33 hours of the language requirement must be in the same modern foreign language (French, German, or Spanish).
- +Enrollment in Intermediate I requires completion of 6 hours of credit for Elementary Language I and Elementary Language II or equivalent proficiency. If you received college credit for these classes while in high school (dual credit), these credits will be applied to the major sequence. Students who have taken high school language courses (French, German or Spanish) may enroll beyond the Elementary I level, and may apply for Validated Credit for the class(es) skipped. A student completing Elementary II with a grade of C or higher will earn three credit hours for Elementary I at no tuition charge; a student completing Intermediate I with a grade of C or higher will earn six credit hours for Elementary I and II at no tuition charge.
- ** Students pursuing the Education Concentration must complete a biology prefix.
- ***AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- The Missouri General Education Assessment (MoGEA) is an exam required of all Teacher Education students. Students must pass all five 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.
- 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	Hrs	Freshman Year - Spring Semester	Hrs
ENGL 1020 Composition I (GE)	3	ENGL 1030 Composition II or CTE 3060 Technical Writing (GE)	3
MUS 1000 Recital Attendance	0	MUS 1000 Recital Attendance	0
MUS 1100 Fundamentals of Music+* or General Education	3	MUS 1111 Theory I*	3
MUS 1225 Music of the World's Cultures (GE)	3	MUS 1121 Aural Training I*	1
Major Instrument or Voice, 1000 Level	1	Major Instrument or Voice, 1000 Level	1
Major Large Ensemble	1	Major Large Ensemble	1
Modern Language Requirement (GE)**	3	Modern Language Requirement**	3
Semester Total	14	General Education	3
AE 1400 Freshman Seminar***	1	Semester Total	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 1800*	3	MUS 3212 Music History 1800-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	Hrs	Senior Year - Spring Semester	Hrs
Major Instrument or Voice, 3000 Level	1.5	MUS 4000 Special Projects, 4060 Senior Recital, 4430 Sem. in Music Technology, or 4514 Piano Pedagogy IV - Seminar	2-3
Elective in Music	3	Major Instrument or Voice, 3000 Level	1.5
Minor Coursework	3	Minor Coursework	3
Free Choice Electives	8	Free Choice Electives	6-7
Semester Total	15.5	Semester Total	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.
- This plan is based on a 21-hour minor.
- This major does not build in the minimum number (30) of upper-level credit hours required for graduation. Be sure to include upper-level choices (3000/4000) in your major electives, minor, general education, and/or free choice electives.
- To satisfy the General Education Assessment (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		Hrs	Freshman Year - Spring Semester		Hrs
ENGL 1020 Composition I (GE)		3	ENGL 1030 Composition II or CTE 3060 Technical Writing (GE)		3
MUS 1000 Recital Attendance		0	MUS 1000 Recital Attendance		0
MUS 1100 Fundamentals of Music+* or General Education		3	MUS 1111 Theory I*		3
MUS 2221 Introduction to Music Literature I*		2	MUS 1121 Aural Training I*		1
Major Instrument, 1000 Level		2	MUS 1225 Music of the World's Cultures (GE)		3
Major Large Instrument Ensemble		1	MUS 2222 Introduction to Music Literature II*		2
(Piano Class I)**		(1)	Major Instrument, 1000 Level		2
General Education		3	Major Large Instrument Ensemble		1
			(Piano Class II)**		(1)
Semester Total		14	Semester Total		15

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 2111 Theory III*		3
MUS 1122 Aural Training II*		1	MUS 2121 Aural Training III*		1
MUS 2300 Fundamentals of Conducting*		3	MUS Electives		1
Instrumental Music Elective		1	Instrumental Music Elective		1
Major Instrument, 1000 Level		2	Major Instrument, 1000 Level		2
Major Large Instrument Ensemble		1	Major Large Instrument Ensemble		1
(Piano Class III)**		(1)	(Piano Class IV)**		(1)
General Education		6	General Education		6
Semester Total		17	Semester Total		15

Junior Year - Fall Semester		Hrs	Junior Year - Spring Semester		Hrs
MUS 1000 Recital Attendance		0	MUS 1000 Recital Attendance		0
MUS 2112 Theory IV*		3	MUS 3060 Junior Recital		1
MUS 2122 Aural Training IV*		1	MUS 3212 Music History 1800-Present (GE)*		3
MUS 3211 Music History to 1800*		3	MUS Electives		3
MUS 4125 Form & Analysis (only offered Fall semesters of odd numbered years)		3	Major Instrument, 3000 Level		3
MUS Required Elective***		3	Major Large Instrument Ensemble		1
Major Instrument, 3000 Level		3	General Education		3
Major Large Instrument Ensemble		1			
Semester Total		17	Semester Total		14

Senior Year - Fall Semester		Hrs	Senior Year - Spring Semester		Hrs
MUS 1000 Recital Attendance		0	MUS 1000 Recital Attendance		0
MUS 4240, 4245, 4250, or 4255 Instrumental Lit. & Ped.		2	MUS 4060 Senior Recital		2
MUS Electives		3	Major Instrument, 3000 Level		3
Major Instrument, 3000 Level		3	MUS Electives		3
Small Instrumental Ensemble		1	Small Instrumental Ensemble		1
General Education		6	General Education (only 3 hours of General Education are needed here if the other 3 hours were taken in the first semester instead of MUS 1100)		3-6
Semester Total		15	Free Choice Elective		1
			Semester Total		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).
- 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		Hrs	Freshman Year - Spring Semester		Hrs
ENGL 1020 Composition I (GE)		3	ENGL 1030 Composition II or CTE 3060 Technical Writing (GE)		3
MUS 1000 Recital Attendance		0	MUS 1000 Recital Attendance		0
MUS 1100 Fundamentals of Music+* or General Education		3	MUS 1111 Theory I*		3
MUS 2221 Introduction to Music Literature I*		2	MUS 1121 Aural Training I*		1
Major Instrument, 1000 Level		2	MUS 1225 Music of the World's Cultures (GE)		3
Major Large Instrument Ensemble		1	MUS 2222 Introduction to Music Literature II*		2
(Piano Class I)**		(1)	Major Instrument, 1000 Level		2
General Education		3	Major Large Instrument Ensemble		1
			(Piano Class II)**		(1)
Semester Total		14	Semester Total		15

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 2111 Theory III*		3
MUS 1122 Aural Training II*		1	MUS 2121 Aural Training III*		1
MUS 2300 Fundamentals of Conducting*		3	MUS Electives		1
Instrumental Music Elective		1	Instrumental Music Elective		1
Major Instrument, 1000 Level		2	Major Instrument, 1000 Level		2
Major Large Instrument Ensemble		1	Major Large Instrument Ensemble		1
(Piano Class III)**		(1)	(Piano Class IV)**		(1)
General Education		6	General Education		6
Semester Total		17	Semester Total		15

Junior Year - Fall Semester		Hrs	Junior Year - Spring Semester		Hrs
MUS 1000 Recital Attendance		0	MUS 1000 Recital Attendance		0
MUS 2112 Theory IV*		3	MUS 3060 Junior Recital		1
MUS 2122 Aural Training IV*		1	MUS 3212 Music History 1800-Present (GE)*		3
MUS 3211 Music History to 1800*		3	MUS Electives		3
MUS Required Elective***		3	Major Instrument, 3000 Level		3
Major Instrument, 3000 Level		3	Major Large Instrument Ensemble		1
Major Large Instrument Ensemble		1	General Education		3
General Education		3			
Semester Total		17	Semester Total		14

Senior Year - Fall Semester		Hrs	Senior Year - Spring Semester		Hrs
MUS 1000 Recital Attendance		0	MUS 1000 Recital Attendance		0
MUS 4125 Form & Analysis (only offered Fall semesters of odd numbered years)		3	MUS 4060 Senior Recital		2
MUS 4240, 4245, 4250, or 4255 Instrumental Lit. & Ped.		2	Major Instrument, 3000 Level		3
MUS Electives		3	MUS Electives		3
Major Instrument, 3000 Level		3	Small Instrumental Ensemble		1
Small Instrumental Ensemble		1	General Education (only 3 hours of General Education are needed here if the other 3 hours were taken in the first semester instead of MUS 1100)		3-6
General Education		3	Free Choice Elective		1
Semester Total		15	Semester Total		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).
- 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)

This guide is valid for the 2014 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 Technical Writing (GE)		3
MUS 1000 Recital Attendance		0	MUS 1000 Recital Attendance		0
MUS 1085 Jazz-Rock Combo		1	MUS 1111 Theory I*		3
MUS 1100 Fundamentals of Music+* or General Education		3	MUS 1121 Aural Training I*		1
MUS 1400 Computer Music Notation		.5	MUS 1281 History & Development of Jazz (GE)*		3
MUS 1450 Audio and Acoustics (GE)		3	Major Instrument, 1000 Level		2
Major Large Jazz Ensemble		1	Major Large Jazz Ensemble		1
Major Instrument, 1000 Level		2	Major Large Non-Jazz Ensemble		1
(Piano Class I)**		(1)	(Piano Class II)**		(1)
General Education		3	Semester Total		14
Semester Total		16.5			

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 1410 or 1420 or 1430 or 1440		.5
MUS 1122 Aural Training II*		1	MUS 2111 Theory III*		3
MUS 1225 Music of the World's Cultures (GE)		3	MUS 2121 Aural Training III*		1
MUS 2180 Jazz Improvisation I*		2	MUS 2141 Composition I		3
MUS 2300 Fundamentals of Conducting*		3	MUS 2181 Jazz Improvisation II*		2
Major Large Jazz Ensemble		1	Major Large Jazz Ensemble		1
Major Instrument, 1000 Level		2	Major Instrument, 1000 Level		2
Major Large Non-Jazz Ensemble		1	(Piano Class IV)**		(1)
(Piano Class III)**		(1)	General Education		3
Semester Total		16	Semester Total		15.5

Junior Year - Fall Semester		Hrs	Junior Year - Spring Semester		Hrs
MUS 1000 Recital Attendance		0	MUS 1000 Recital Attendance		0
MUS 2112 Theory IV*		3	MUS 1085 Jazz-Rock Combo		1
MUS 2122 Aural Training IV*		1	MUS 3060 Junior Recital		1
MUS 3211 Music History to 1800*		3	MUS 3212 Music History 1800-Present (GE)*		3
MUS 4125 Form & Analysis (only offered Fall semesters of odd numbered years)		3	MUS 4181 Advanced Jazz Improvisation (fall only) or MUS 4186 Advanced Jazz-Commercial Arranging***		2
Major Large Jazz Ensemble		1	Major Large Jazz Ensemble		1
Major Instrument, 3000 Level		3	Major Instrument, 3000 Level		3
Semester Total		14	General Education		3
			Semester Total		14

Senior Year - Fall Semester		Hrs	Senior Year - Spring Semester		Hrs
MUS 1000 Recital Attendance		0	MUS 1000 Recital Attendance		0
MUS 4181 Advanced Jazz Improvisation* or MUS 4186 Advanced Jazz-Commercial Arranging***		2	MUS 4060 Senior Recital		2
MUS electives		2	MUS 4185 Jazz-Commercial Arranging (only offered Spring semesters of odd numbered years)		3
Major Instrument, 3000 Level		3	Major Instrument, 3000 Level		3
General Education (or save 3 hours for next semester if full-time status is needed)		9	General Education (only 6 hours of General Education are needed here if the other 3 hours were taken in the first semester instead of MUS 1100)		3-6
Semester Total		16	Free Choice Electives (not needed if MUS 1100 taken)		0-1

Fifth Year - Fall Semester		Hrs	Semester Total		Hrs
MUS 4181 Advanced Jazz Improvisation* or MUS 4186 Advanced Jazz-Commercial Arranging***		2			11-14
Semester Total		2			

Music Major (Area 2 Jazz-Commercial Music - odd 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 requires the prerequisite of MUS 4185. If chosen, adjust schedule to take after 4185. This course is only offered as needed by the department. See department for projected course offerings.
- To satisfy the General Education Assessment (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		Hrs	Freshman Year - Spring Semester		Hrs
ENGL 1020 Composition I (GE)		3	ENGL 1030 Composition II or CTE 3060 Technical Writing (GE)		3
MUS 1000 Recital Attendance		0	MUS 1000 Recital Attendance		0
MUS 1085 Jazz-Rock Combo		1	MUS 1111 Theory I*		3
MUS 1100 Fundamentals of Music+* or General Education		3	MUS 1121 Aural Training I*		1
MUS 1400 Computer Music Notation		.5	Major Instrument, 1000 Level		2
MUS 1450 Audio and Acoustics (GE)		3	Major Large Jazz Ensemble		1
Major Large Jazz Ensemble		1	Major Large Non-Jazz Ensemble		1
Major Instrument, 1000 Level		2	(Piano Class II)**		(1)
(Piano Class I)**		(1)	General Education		6
General Education		3	Semester Total		17
Semester Total		16.5			

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 1281 History & Development of Jazz (GE)*		3
MUS 1122 Aural Training II*		1	MUS 1410 or 1420 or 1430 or 1440		.5
MUS 1225 Music of the World's Cultures (GE)		3	MUS 2111 Theory III*		3
MUS 2180 Jazz Improvisation I*		2	MUS 2121 Aural Training III*		1
MUS 2300 Fundamentals of Conducting*		3	MUS 2141 Composition I		3
Major Large Jazz Ensemble		1	MUS 2181 Jazz Improvisation II*		2
Major Instrument, 1000 Level		2	Major Large Jazz Ensemble		1
Major Large Non-Jazz Ensemble		1	Major Instrument, 1000 Level		2
(Piano Class III)**		(1)	(Piano Class IV)**		(1)
Semester Total		16	Semester Total		15.5

Junior Year - Fall Semester		Hrs	Junior Year - Spring Semester		Hrs
MUS 1000 Recital Attendance		0	MUS 1000 Recital Attendance		0
MUS 2112 Theory IV*		3	MUS 1085 Jazz-Rock Combo		1
MUS 2122 Aural Training IV*		1	MUS 3060 Junior Recital		1
MUS 3211 Music History to 1800*		3	MUS 3212 Music History 1800-Present (GE)*		3
MUS 4181 Advanced Jazz Improvisation* or MUS 4186 Advanced Jazz-Commercial Arranging***		2	MUS 4185 Jazz-Commercial Arranging (only offered Spring semesters of odd numbered years)		3
Major Large Jazz Ensemble		1	Major Large Jazz Ensemble		1
Major Instrument, 3000 Level		3	Major Instrument, 3000 Level		3
General Education		3	General Education		3
Semester Total		16	Semester Total		15

Senior Year - Fall Semester		Hrs	Senior Year - Spring Semester		Hrs
MUS 1000 Recital Attendance		0	MUS 1000 Recital Attendance		0
MUS 4125 Form & Analysis (only offered Fall semesters of odd numbered years)		3	MUS 4060 Senior Recital		2
MUS 4181 Advanced Jazz Improvisation* or MUS 4186 Advanced Jazz-Commercial Arranging***		2	MUS 4181 Advanced Jazz Improvisation (fall only) or MUS 4186 Advanced Jazz-Commercial Arranging***		2
MUS electives		2	Major Instrument, 3000 Level		3
Major Instrument, 3000 Level		3	General Education (6 hours of General Education are needed here if the other 3 hours were taken in the first semester instead of MUS 1100)		3-6
General Education		3	Free Choice Electives		0-1
Semester Total		13	Semester Total		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.
- 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		Hrs	Freshman Year - Spring Semester		Hrs
ENGL 1020 Composition I (GE)		3	ENGL 1030 Composition II or CTE 3060 Technical Writing (GE)		3
MUS 1000 Recital Attendance		0	MUS 1000 Recital Attendance		0
(MUS 1100 Fundamentals of Music) +*		(3)	MUS 1111 Theory I		3
MUS 1400 Computer Music Notation		.5	MUS 1121 Aural Training I*		1
MUS 1450 Audio & Acoustics (GE)		3	MUS 2410 Digital Audio Production*		3
Approved Elective in Music+ +		1	MUS 2420 Technology Practicum		0
Electronics or Computer Programming Elective (Choose from CS 1100, ET 1010, or ET 1020)		3-4	Major Instrument or Voice, 1000 Level		1
Major Instrument or Voice, 1000 Level		1	Major Large Instrumental or Vocal Ensemble (Piano Class II)***		(1)
Major Large Instrumental or Vocal Ensemble (Piano Class I)***		1	General Education		3
		(1)	Semester Total		15-16
Semester Total		12.5-17.5			

Sophomore Year - Fall Semester		Hrs	Sophomore Year - Spring Semester		Hrs
ECON 1010 Principles of Macroeconomics (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 4400 Audio for X*		3
MUS 2400 Sound Reinforcement & Music Production*		3	MUS 4420 Advanced Music Technology Practicum		0
MUS 2420 Technology Practicum		0	Major Instrument or Voice, 1000 Level		1
Major Instrument or Voice, 1000 Level		1	Major Large Instrumental or Vocal Ensemble (Piano Class IV)***		(1)
Major Large Instrumental or Vocal Ensemble (Piano Class III)***		(1)	General Education		5
General Education		3	Semester Total		14-15
Semester Total		15-16			

Junior Year - Fall Semester		Hrs	Junior Year - Spring Semester		Hrs
MUS 1000 Recital Attendance		0	COMM 3425 Audio for Digital Cinema		3
MUS 1225 Music of the World's Cultures (GE)		3	MUS 1000 Recital Attendance		0
MUS 4040 Music Business Practices		3	MUS 3212 Music History 1800-Present (GE)*		3
MUS 2112 Theory IV*		3	MUS 4115 Instrumentation*		3
MUS 2122 Aural Training IV*		1	MUS 4190 Electronic Music Composition or MUS 4195 Max & MSP (each class offered every other year)		3
MUS 3211 Music History to 1800*		3	Approved Elective in Music+ +		2
MUS 4410 Electronic Music Production Techniques		3	Semester Total		14
MUS 4420 Advanced Music Technology Practicum		0			
Semester Total		16			

Senior Year - Fall Semester		Hrs	Senior Year - Spring Semester		Hrs
MUS 1000 Recital Attendance		0	MUS 4190 Electronic Music Composition or MUS 4195 Max & MSP (each class offered every other year)		3
MUS 4040 Music Business Practices		3	MUS 4430 Seminar in Music Technology		2
MUS 4430 Seminar in Music Technology		2	Music Academic Studies Elective#		3
Music Academic Studies Elective#		3	Approved Elective in Music+ +		1
General Education		6	General Education# (If MUS 1220 or 1281 are chosen in the major, only 3 hours are required here)		3-6
Semester Total		14	Semester Total		12-15

After Junior or Senior Year - Summer Semester		Hrs
MUS 4450 Internship in Music Technology		6
Semester Total		6

Music Major (Area 3 Music Technology), 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.
- + +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 hour 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.
- 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, testingervices@ucmo.edu) for more information.

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

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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 Technical Writing (GE)		3
MUS 1000 Recital Attendance		0	MUS 1000 Recital Attendance		0
MUS 1100 Fundamentals of Music+* or General Education		3	MUS 1111 Theory I*		3
MUS 1510 Piano I		2	MUS 1121 Aural Training I*		1
MUS 2221 Introduction to Music Literature I*		2	MUS 1225 Music of the World's Cultures (GE)		3
Major Large Instrumental or Vocal Ensemble		1	MUS 1510 Piano I		2
General Education		5	MUS 2222 Introduction to Music Literature II*		2
Semester Total		16	Major Large Instrumental or Vocal Ensemble		1
			Semester Total		15

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 1095 Keyboard Ensemble		1
MUS 1122 Aural Training II*		1	MUS 1510 Piano I		2
MUS 1510 Piano I		2	MUS 2111 Theory III*		3
MUS 2300 Fundamentals of Conducting*		3	MUS 2121 Aural Training III*		1
MUS 2515 Piano Accompanying (only offered Fall semesters of even numbered years)		2	Major Large Instrumental or Vocal Ensemble		1
Major Large Instrumental or Vocal Ensemble		1	General Education		7
MUS Electives**		1	Semester Total		15
General Education		3			
Semester Total		16			

Junior Year - Fall Semester		Hrs	Junior Year - Spring Semester		Hrs
MUS 1000 Recital Attendance		0	MUS 1000 Recital Attendance		0
MUS 2112 Theory IV*		3	MUS 3060 Junior Recital		1
MUS 2122 Aural Training IV*		1	MUS 3095 Piano Accompanying Practicum		1
MUS 3211 Music History to 1800*		3	MUS 3212 Music History 1800-Present (GE)*		3
MUS 3510 Piano II		3	MUS 3510 Piano II		3
MUS 4125 Form & Analysis (only offered Fall semesters of odd numbered years)		3	Major Large Instrumental or Vocal Ensemble		1
MUS 4511 Piano Pedagogy I - Beginner (only offered Fall semesters of odd numbered years)		3	General Education		6
Semester Total		16	Semester Total		15

Senior Year - Fall Semester		Hrs	Senior Year - Spring Semester		Hrs
MUS 1000 Recital Attendance		0	MUS 1000 Recital Attendance		0
MUS 3510 Piano II		3	MUS 3510 Piano II		3
MUS 4201 Piano Literature through Beethoven (only offered Fall semesters of even numbered years)		2	MUS 4060 Senior Recital		2
MUS Electives**		3	MUS 4101 Counterpoint I or MUS 4115 Instrumentation		3
Major Large Instrumental or Vocal Ensemble		1	MUS 4202 Piano Literature Romantic Era-Present (only offered Spring semesters of odd numbered years)		2
General Education		6	General Education (only 3 hours of General Education are needed here if the other 3 hours were taken in the first semester instead of MUS 1100)		0-3
Free Choice Elective		1	Free Choice Electives (0 hours needed if MUS 1100 was taken)		0-3
Semester Total		16	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.
- 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		Hrs	Freshman Year - Spring Semester		Hrs
ENGL 1020 Composition I (GE)		3	ENGL 1030 Composition II or CTE 3060 Technical Writing (GE)		3
MUS 1000 Recital Attendance		0	MUS 1000 Recital Attendance		0
MUS 1100 Fundamentals of Music+* or General Education		3	MUS 1111 Theory I*		3
MUS 1510 Piano I		2	MUS 1121 Aural Training I*		1
MUS 2221 Introduction to Music Literature I*		2	MUS 1225 Music of the World's Cultures (GE)		3
Major Large Instrumental or Vocal Ensemble		1	MUS 1510 Piano I		2
General Education		5	MUS 2222 Introduction to Music Literature II*		2
Semester Total		16	Major Large Instrumental or Vocal Ensemble		1
			Semester Total		15

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 1095 Keyboard Ensemble		1
MUS 1122 Aural Training II*		1	MUS 1510 Piano I		2
MUS 1510 Piano I		2	MUS 2111 Theory III*		3
MUS 2300 Fundamentals of Conducting*		3	MUS 2121 Aural Training III*		1
Major Large Instrumental or Vocal Ensemble		1	Major Large Instrumental or Vocal Ensemble		1
MUS Electives**		1	General Education		7
General Education		6	Semester Total		15
Semester Total		17			

Junior Year - Fall Semester		Hrs	Junior Year - Spring Semester		Hrs
MUS 1000 Recital Attendance		0	MUS 1000 Recital Attendance		0
MUS 2112 Theory IV*		3	MUS 3060 Junior Recital		1
MUS 2122 Aural Training IV*		1	MUS 3095 Piano Accompanying Practicum		1
MUS 2515 Piano Accompanying (only offered Fall semesters of even numbered years)		2	MUS 3212 Music History 1800-Present (GE)*		3
MUS 3211 Music History to 1800*		3	MUS 3510 Piano II		3
MUS 3510 Piano II		3	MUS 4202 Piano Literature Romantic Era-Present (only offered Spring semesters of odd numbered years)		2
MUS 4201 Piano Literature through Beethoven (only offered Fall semesters of even numbered years)		2	Major Large Instrumental or Vocal Ensemble		1
General Education		3	General Education		3
Semester Total		17	Semester Total		14

Senior Year - Fall Semester		Hrs	Senior Year - Spring Semester		Hrs
MUS 1000 Recital Attendance		0	MUS 1000 Recital Attendance		0
MUS 3510 Piano II		3	MUS 3510 Piano II		3
MUS 4125 Form & Analysis (only offered Fall semesters of odd numbered years)		3	MUS 4060 Senior Recital		2
MUS 4511 Piano Pedagogy I - Beginner (only offered Fall semesters of odd numbered years)		3	MUS 4101 Counterpoint I or MUS 4115 Instrumentation		3
MUS Electives**		3	General Education (0 hours of General Education are needed here if 3 hours were taken in the first semester instead of MUS 1100)		0-3
Major Large Instrumental or Vocal Ensemble		1	Free Choice Electives (only 1 hr needed if MUS 1100 was taken)		1-4
General Education		3	Semester Total		12
Semester Total		16			

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.
- 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 - odd year start), B.M. Degree (44-05472)

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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 Technical Writing (GE)	3
MUS 1000 Recital Attendance	0	MUS 1000 Recital Attendance	0
MUS 1100 Fundamentals of Music+* or General Education	3	MUS 1111 Theory I*	3
MUS 1510 Piano I	2	MUS 1121 Aural Training I*	1
PSY 1100 General Psychology (GE)	3	MUS 1225 Music of the World's Cultures (GE)	3
Major Large Instrument or Vocal Ensemble	1	MUS 1510 Piano I	2
General Education	3	MUS 2222 Introduction to Music Literature II*	2
Semester Total	15	Major Large Instrument or Vocal Ensemble	1
		Semester Total	15

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 1510 Piano I	2
MUS 1122 Aural Training II*	1	MUS 2111 Theory III*	3
MUS 1510 Piano I	2	MUS 2121 Aural Training III*	1
MUS 4201 Piano Literature through Beethoven (only offered Fall semesters of even numbered years)	2	MUS 4202 Piano Literature Romantic Era - Present*	2
Major Large Instrument or Vocal Ensemble	1	Major Large Instrument or Vocal Ensemble	1
General Education	6	General Education	6
Semester Total	15	Semester Total	15

Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
MUS 1000 Recital Attendance	0	MUS 1000 Recital Attendance	0
MUS 2112 Theory IV*	3	MUS 1095 Keyboard Ensemble or MUS 3095 Piano Accompanying Practicum	1
MUS 2122 Aural Training IV*	1	MUS 3212 Music History 1800-Present (GE)*	3
MUS 2515 Piano Accompanying	2	MUS 3510 Piano II	3
MUS 3510 Piano II	1.5	MUS 4512 Piano Pedagogy II - The Intermediate Student (only offered Spring semesters of even numbered years)	3
MUS 4125 Form & Analysis (only offered Fall semesters of odd numbered years)	3	MUS 4515 Practice Teaching in Piano*	3
MUS 4511 Piano Pedagogy I - The Beginner (only offered Fall semesters of odd numbered years)	3	General Education	3
General Education	3	Semester Total	16
Semester Total	16.5		

Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
MUS 1000 Recital Attendance	0	MUS 1000 Recital Attendance	0
MUS 2300 Fundamentals of Conducting*	3	MUS 1095 Keyboard Ensemble or MUS 3095 Piano Accompanying Practicum	1
MUS 3211 Music History to 1800*	3	MUS 3510 Piano II	3
MUS 3510 Piano II	3	MUS 4060 Senior Recital	2
MUS 4101 Counterpoint I (only offered Fall semesters of even numbered years)	3	MUS 4514 Piano Pedagogy IV - Seminar*	3
MUS 4513 Piano Pedagogy III - The Advanced Student (only offered Fall semesters of even numbered years)	3	MUS 4515 Practice Teaching in Piano*	3
General Education (0 hours of General Education are needed here if 3 hours were taken in the first semester instead of MUS 1100)	0-3	General Education	3
Semester Total	15-18	Semester Total	15

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.
- 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 2014 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 Technical Writing (GE)		3
MUS 1000 Recital Attendance		0	MUS 1000 Recital Attendance		0
MUS 1100 Fundamentals of Music+* or General Education		3	MUS 1111 Theory I*		3
MUS 1510 Piano I		2	MUS 1121 Aural Training I*		1
PSY 1100 General Psychology (GE)		3	MUS 1225 Music of the World's Cultures (GE)		3
Major Large Instrument or Vocal Ensemble		1	MUS 1510 Piano I		2
General Education		3	MUS 2222 Introduction to Music Literature II*		2
Semester Total		15	Major Large Instrument or Vocal Ensemble		1
			Semester Total		15

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 1510 Piano I		2
MUS 1122 Aural Training II*		1	MUS 2111 Theory III*		3
MUS 1510 Piano I		2	MUS 2121 Aural Training III*		1
MUS 4511 Piano Pedagogy I - The Beginner (only offered Fall semesters of odd numbered years)		3	MUS 4512 Piano Pedagogy II - The Intermediate Student (only offered Spring semesters of even numbered years)		3
Major Large Instrument or Vocal Ensemble		1	Major Large Instrument or Vocal Ensemble		1
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 2112 Theory IV*		3	MUS 1095 Keyboard Ensemble or MUS 3095 Piano Accompanying Practicum		1
MUS 2122 Aural Training IV*		1	MUS 3510 Piano II		3
MUS 2515 Piano Accompanying		2	MUS 4202 Piano Literature Romantic Era - Present*		2
MUS 3510 Piano II		1.5	MUS 4514 Piano Pedagogy IV - Seminar*		3
MUS 4101 Counterpoint I (only offered Fall semesters of even numbered years)		3	MUS 4515 Practice Teaching in Piano*		3
MUS 4201 Piano Literature through Beethoven (only offered Fall semesters of even numbered years)		2	General Education		6
MUS 4513 Piano Pedagogy III - The Advanced Student (only offered Fall semesters of even numbered years)		3	Semester Total		18
Semester Total		15.5			

Senior Year - Fall Semester		Hrs	Senior Year - Spring Semester		Hrs
MUS 1000 Recital Attendance		0	MUS 1000 Recital Attendance		0
MUS 1095 Keyboard Ensemble or MUS 3095 Piano Accompanying Practicum		1	MUS 3212 Music History 1800-Present (GE)*		3
MUS 2300 Fundamentals of Conducting*		3	MUS 3510 Piano II		3
MUS 3211 Music History to 1800*		3	MUS 4060 Senior Recital		2
MUS 3510 Piano II		3	MUS 4515 Practice Teaching in Piano*		3
MUS 4125 Form & Analysis (only offered Fall semesters of odd numbered years)		3	General Education		3
General Education (0 hours of General Education are needed here if 3 hours were taken in the first semester instead of MUS 1100)		0-3	Semester Total		14
Semester Total		13-16			

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.
- *This course is only offered during the semester listed.
- 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 2014 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 Technical Writing (GE)	3
FREN 1201 Elem. French I or GER 1301 Elem. German I (GE)*	3	FREN 1202 Elem. French II or GER 1302 Elem. German II*	3
MUS 1000 Recital Attendance	0	MUS 1000 Recital Attendance	0
MUS 1100 Fundamentals of Music+** or General Education	3	MUS 1111 Theory I**	3
MUS 1610 Voice I	2	MUS 1121 Aural Training I**	1
MUS 2221 Introduction to Music Literature I**	2	MUS 1610 Voice I	2
Major Large Vocal Ensemble (Piano Class I)***	1	MUS 2222 Introduction to Music Literature II**	2
	(1)	Major Large Vocal Ensemble (Piano Class II)***	1
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	Major Large Vocal Ensemble (Piano Class IV)***	1
Major Large Vocal Ensemble (Piano Class III)***	1	General Education	(1) 6
General Education	6	Semester Total	13-14
Semester Total	16-17		

Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
MUS 1000 Recital Attendance	0	MUS 1000 Recital Attendance	0
MUS 2112 Theory IV**	3	MUS 1225 Music of the World's Cultures (GE)	3
MUS 2122 Aural Training IV**	1	MUS 1615 Opera Theatre**	2
MUS 2631 Diction for Singers I	1	MUS 2632 Diction for Singers II (only offered Spring semesters of even numbered years)	2
MUS 3211 Music History to 1800**	3	MUS 3060 Junior Recital	1
MUS 3610 Voice II	3	MUS 3212 Music History 1800 - Present (GE)**	3
MUS 4125 Form & Analysis (only offered Fall semesters of odd numbered years)	3	MUS 3610 Voice II	3
MUS 4235 Vocal Literature (only offered Fall semesters of odd numbered years)	3	General Education	3
Major Large Vocal Ensemble	1	Semester Total	17
Semester Total	18		

Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
MUS 1000 Recital Attendance	0	MUS 1000 Recital Attendance	0
MUS 3610 Voice II	3	MUS 3610 Voice II	3
MUS Required Elective#	3	MUS 4060 Senior Recital	2
Major Large Vocal Ensemble	1	MUS 4600 Vocal Pedagogy (only offered Spring semesters of odd numbered years)	2
General Education	6	MUS Electives	3
Free Choice Electives (will not be needed if MUS 1100 is taken or if validated credit is earned for FREN 1201 or GER 1301 if these classes are taken)	0-1	General Education (only 3 hours of General Education are needed here if the other 3 hours were taken in the first semester instead of MUS 1100)	3-6
Semester Total	13-14	Semester Total	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).
- 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)

This guide is valid for the 2014 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 Technical Writing (GE)		3
FREN 1201 Elem. French I or GER 1301 Elem. German I (GE)*		3	FREN 1202 Elem. French II or GER 1302 Elem. German II*		3
MUS 1000 Recital Attendance		0	MUS 1000 Recital Attendance		0
MUS 1100 Fundamentals of Music+ ** or General Education		3	MUS 1111 Theory I**		3
MUS 1610 Voice I		2	MUS 1121 Aural Training I**		1
MUS 2221 Introduction to Music Literature I**		2	MUS 1610 Voice I		2
Major Large Vocal Ensemble		1	MUS 2222 Introduction to Music Literature II**		2
(Piano Class I)***		(1)	Major Large Vocal Ensemble		1
Semester Total		14-15	(Piano Class II)***		(1)
			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 semesters of even numbered years)		2
MUS 2631 Diction for Singers I		1	Major Large Vocal Ensemble		1
Major Large Vocal Ensemble		(1)	(Piano Class IV)***		(1)
(Piano Class III)***		6	General Education		6
General Education		6	Semester Total		15-16
Semester Total		17-18			

Junior Year - Fall Semester		Hrs	Junior Year - Spring Semester		Hrs
MUS 1000 Recital Attendance		0	MUS 1000 Recital Attendance		0
MUS 2112 The ory IV**		3	MUS 1225 Music of the World's Cultures (GE)		3
MUS 2122 Aural Training IV**		1	MUS 1615 Opera Theatre**		2
MUS 3211 Music History to 1800**		3	MUS 3060 Junior Recital		1
MUS 3610 Voice II		3	MUS 3212 Music History 1800 - Present (GE)**		3
Major Large Vocal Ensemble		1	MUS 3610 Voice II		3
General Education		3	MUS 4600 Vocal Pedagogy (only offered Spring semesters of odd numbered years)		2
Semester Total		14	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

Senior Year - Fall Semester		Hrs	Senior Year - Spring Semester		Hrs
MUS 1000 Recital Attendance		0	MUS 1000 Recital Attendance		0
MUS 3610 Voice II		3	MUS 3610 Voice II		3
MUS 4125 Form & Analysis (only offered Fall semesters of odd numbered years)		3	MUS 4060 Senior Recital		2
MUS 4235 Vocal Literature (only offered Fall semesters of odd numbered years)		3	MUS Electives		3
MUS Required Elective#		3	General Education (only 6 hours of General Education are needed here if the other 3 hours were taken in the first semester instead of MUS 1100)		6-9
Major Large Vocal Ensemble		1	Semester Total		14-17
General Education		3			
Semester Total		16			

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).
- 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)

This guide is valid for the 2014 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)	Hrs
HIST 1350 or HIST 1351 History of the United States (GE)	3
MUS 1000 Recital Attendance	3
MUS 1100 Fundamentals of Music+ * or General Education	0
Major Instrument, 1000 Level	3
Major Large Instrumental Ensemble (Piano)	1
General Education MATH	(1)
Semester Total	14-15

Freshman Year - Spring Semester

ENGL 1030 Composition II or CTE 3060 Technical Writing (GE)	Hrs
MUS 1000 Recital Attendance	3
MUS 1111 Theory I*	0
MUS 1121 Aural Training I*	3
MUS 1390 Introduction to Music Education*	1
Instrument Techniques Class**	2
Major Instrument, 1000 Level	1
Major Large Instrumental Ensemble (Piano)	1
General Education Science with Laboratory	(1)
Semester Total	16-17

Sophomore Year - Fall Semester

EDFL 2100 Foundations of Education	Hrs
FLDX 2150 Introductory Field Experience	2
MUS 1000 Recital Attendance	1
MUS 1112 Theory II*	0
MUS 1122 Aural Training II*	3
MUS 1400 Computer Music Notation	1
MUS 1450 Audio and Acoustics (GE)	.5
MUS 2300 Fundamentals of Conducting*	3
Instrument Techniques Class**	3
Major Instrument, 1000 Level	1
Major Large Instrumental Ensemble (Piano)	1
Semester Total	16.5-17.5

Sophomore Year - Spring Semester

EDFL 2240 Educational Psychology	Hrs
EDSP 2100 Education of the Exceptional Child	3
MUS 1000 Recital Attendance	2
MUS 2111 Theory III*	0
MUS 2121 Aural Training III*	3
POLS 1510 American Government (GE)	1
Major Large Instrumental Ensemble	3
Major Instrument, 1000 Level (Piano)	1
General Education Communication	(1)
Semester Total	17-18

(Successfully complete MoGEA exam by end of this semester)

Junior Year - Fall Semester

MUS 1000 Recital Attendance	Hrs
MUS 2112 Theory IV*	0
MUS 2122 Aural Training IV*	3
MUS 3211 Music History to 1800*	1
MUS 3305 Methods of Teaching Elementary School Music***	3
MUS 3308 Marching Band Techniques*	3
Instrument Techniques Class**	1
Major Instrument, 3000 Level	1
Major Large Instrumental Ensemble	1.5
General Education (not needed if taken in first semester instead of MUS 1100, if needed choose an online course)	1
Semester Total	14.5-17.5

Junior Year - Spring Semester

MUS 1000 Recital Attendance	Hrs
MUS 1410, 1420, 1430, or 1440 (choose one)	0
MUS 1225 Music of the World's Cultures (GE)	.5
MUS 3212 Music History 1800-Present (GE)*	3
MUS 3306 Methods of Teaching Instrumental Music*	3
MUS 3320 Instrumental Conducting & Rehearsal Tech.*	3
MUS 4115 Instrumentation*	3
Instrument Techniques Class**	1
Instrument Techniques Class**	1
Major Instrument, 3000 Level	1.5
Major Large Instrumental Ensemble	1
Semester Total	20

Senior Year - Fall Semester

EDFL 3500 Secondary Teaching & Behavioral Management	Hrs
FLDX 3550 Practicum in Secondary Instruction	3
MUS 1000 Recital Attendance	1
MUS 4381 Jazz Pedagogy* (Fall only)	0
PSY 4230 Psychology of Adolescence (GE)	2
Instrument Techniques Class**	3
Major Instrument, 3000 Level	1
Major Large Instrumental Ensemble	1.5
General Education	1
Semester Total	17.5

Senior Year - Spring Semester

FLDX 4595 Student Teaching Secondary I	Hrs
FLDX 4468 Student Teaching Secondary II	5
MUS 4310 Methods of Teaching Music	4
MUS 4350 Secondary Field Experience II	2
Semester Total	12

Music Education Major (Instrumental Option - even start year), B.M.E. Degree - 127.5 hours

- +MUS 1100 with a grade of C or better may be required as a prerequisite to MUS 1111 if the student does not pass this course by the admission examination.
- *This course is only offered during the semester listed.
- **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 course is offered only in even-numbered years. Students who enter UCM in an odd-numbered year may take this course during their senior year, taking PSY 4230 in its place in the junior year.
- The Missouri General Education Assessment (MoGEA) is an exam required of all Teacher Education students. Students must pass all five 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.
- 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.

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

This guide is valid for the 2014 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 Technical Writing (GE)		3
HIST 1350 or HIST 1351 History of the United States (GE)		3	MUS 1000 Recital Attendance		0
MUS 1000 Recital Attendance		0	MUS 1111 Theory I*		3
MUS 1100 Fundamentals of Music+* or General Education		3	MUS 1121 Aural Training I*		1
Major Instrument, 1000 Level		1	MUS 1390 Introduction to Music Education*		2
Major Large Instrumental Ensemble (Piano)		1	Instrument Techniques Class**		1
		(1)	Major Instrument, 1000 Level		1
General Education MATH		3	Major Large Instrumental Ensemble (Piano)		(1)
Semester Total		14-15	General Education Science with Laboratory		4
			Semester Total		16-17
Sophomore Year - Fall Semester		Hrs	Sophomore Year - Spring Semester		Hrs
EDFL 2100 Foundations of Education		2	EDFL 2240 Educational Psychology		3
FLDX 2150 Introductory Field Experience		1	EDSP 2100 Education of the Exceptional Child		2
MUS 1000 Recital Attendance		0	MUS 1000 Recital Attendance		0
MUS 1112 Theory II*		3	MUS 2111 Theory III*		3
MUS 1122 Aural Training II*		1	MUS 2121 Aural Training III*		1
MUS 1400 Computer Music Notation		.5	POLS 1510 American Government (GE)		3
MUS 1450 Audio and Acoustics (GE)		3	Major Large Instrumental Ensemble		1
MUS 2300 Fundamentals of Conducting*		3	Major Instrument, 1000 Level		1
Instrument Techniques Class**		1	(Piano)		(1)
Major Instrument, 1000 Level		1	General Education Communication		3
Major Large Instrumental Ensemble (Piano)		1	Semester Total		17-18
Semester Total		16.5-17.5	<i>(Successfully complete MoGEA exam by end of this semester)</i>		
Junior Year - Fall Semester		Hrs	Junior Year - Spring Semester		Hrs
MUS 1000 Recital Attendance		0	MUS 1000 Recital Attendance		0
MUS 2112 Theory IV*		3	MUS 1410, 1420, 1430, or 1440 (choose one)		.5
MUS 2122 Aural Training IV*		1	MUS 1225 Music of the World's Cultures (GE)		3
MUS 3211 Music History to 1800*		3	MUS 3212 Music History 1800-Present (GE)*		3
MUS 3308 Marching Band Techniques*		3	MUS 3306 Methods of Teaching Instrumental Music*		3
PSY 4230 Psychology of Adolescence (GE)		1	MUS 3320 Instrumental Conducting & Rehearsal Tech.*		3
Instrument Techniques Class**		1	MUS 4115 Instrumentation*		3
Major Instrument, 3000 Level		1.5	Instrument Techniques Class**		1
Major Large Instrumental Ensemble		1	Instrument Techniques Class**		1
General Education (not needed if taken in first semester instead of MUS 1100, if needed choose an online course)		0-3	Major Instrument, 3000 Level		1.5
Semester Total		14.5-17.5	Major Large Instrumental Ensemble		1
			Semester Total		20
Senior Year - Fall Semester		Hrs	Senior Year - Spring Semester		Hrs
EDFL 3500 Secondary Teaching & Behavioral Management		3	FLDX 4595 Student Teaching Secondary I		5
FLDX 3550 Practicum in Secondary Instruction		1	FLDX 4468 Student Teaching Secondary II		4
MUS 1000 Recital Attendance		0	MUS 4310 Methods of Teaching Music		2
MUS 3305 Methods of Teaching Elementary School Music***		3	MUS 4350 Secondary Field Experience II		1
MUS 4381 Jazz Pedagogy* (Fall only)		2	Semester Total		12
Instrument Techniques Class**		1			
Major Instrument, 3000 Level		1.5			
Major Large Instrumental Ensemble		1			
General Education		5			
Semester Total		17.5			

Music Education Major (Instrumental Option - odd start year), B.M.E. Degree – 127.5 hours

- +MUS 1100 with a grade of C or better may be required as a prerequisite to MUS 1111 if the student does not pass this course by the admission examination.
- *This course is only offered during the semester listed.
- **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 course is offered only in even-numbered years. Students who enter UCM in an odd-numbered year may take this course during their senior year, taking PSY 4230 in its place in the junior year.
- The Missouri General Education Assessment (MoGEA) is an exam required of all Teacher Education students. Students must pass all five 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.
- 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.

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

This guide is valid for the 2014 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.

<p>Freshman Year - Fall Semester ENGL 1020 Composition I (GE) MUS 1000 Recital Attendance MUS 1100 Fundamentals of Music+* or General Education MUS 1610 Voice I POLS 1510 American Government (GE) Major Large Vocal Ensemble (Piano) General Education Science w/lab Semester Total</p>	<p>Hrs 3 0 3 1 3 1 (1) 4 15-16</p>	<p>Freshman Year - Spring Semester ENGL 1030 Composition II or CTE 3060 Technical Writing (GE) HIST 1350 or 1351 History of the United States (GE) MUS 1000 Recital Attendance MUS 1111 Theory I* MUS 1121 Aural Training I* MUS 1390 Introduction to Music Education* MUS 1610 Voice I Major Large Vocal Ensemble (Piano) General Education MATH Semester Total</p>	<p>Hrs 3 3 0 3 1 2 1 1 1 (1) 3 17-18</p>
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<p>Sophomore Year - Fall Semester EDFL 2100 Foundations of Education 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 1610 Voice I MUS 2300 Fundamentals of Conducting* MUS 2631 Diction for Singer I Major Large Vocal Ensemble (Piano) Semester Total</p>	<p>Hrs 2 1 0 3 1 .5 3 1 3 1 (1) 17.5-18.5</p>	<p>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 I MUS 1615 Opera Theatre (spring only) or MUS 1620 Music Theatre Practicum I* (fall only) MUS 2111 Theory III* MUS 2121 Aural Training III* Major Large Vocal Ensemble (Piano) General Education (Communication) Semester Total <i>(Successfully complete MoGEA exam by end of this semester)</i></p>	<p>Hrs 3 2 0 .5 1 1 1 1 (1) 3 15.5-16.5</p>
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<p>Junior Year - Fall Semester MUS 1000 Recital Attendance MUS 2112 Theory IV* MUS 2122 Aural Training IV* MUS 3211 Music History to 1800* MUS 3310 Choral Conducting* 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 Semester Total</p>	<p>Hrs 0 3 1 3 3 1.5 3 3 1 3 18.5</p>	<p>Junior Year - Spring Semester MUS 1000 Recital Attendance MUS 1225 Music of the World's Cultures (GE) MUS 3212 Music History 1800-Present (GE)* MUS 3610 Voice II MUS 4230 Choral Literature* PSY 4230 Psychology of Adolescence (GE) Major Large Vocal Ensemble General Education Semester Total</p>	<p>Hrs 0 3 3 1.5 3 3 1 3 17.5</p>
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<p>Senior Year - Fall Semester EDFL 3500 Sec. Teaching & Behavioral Management FLDX 3550 Practicum in Secondary Instruction 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 MUS 4130 Choral Arranging* (offered fall semester of even numbered years only) Major Large Vocal Ensemble General Education (not needed if taken in first semester instead of MUS 1100, if needed choose an online course) Semester Total</p>	<p>Hrs 3 1 0 3 3 1.5 2 1 0-3 14.5-17.5</p>	<p>Senior Year - Spring Semester FLDX 4595 Student Teaching Secondary I FLDX 4468 Student Teaching Secondary II MUS 4310 Methods of Teaching Music MUS 4350 Secondary Field Experience II Semester Total</p>	<p>Hrs 5 4 2 1 12</p>
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Music Education Major (Vocal Option), B.M.E. Degree – 126.5 hours min.

- +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).
- The Missouri General Education Assessment (MoGEA) is an exam required of all Teacher Education students. Students must pass all five 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.
- 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.

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

This guide is valid for the 2014 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 Technical 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 I	1	MUS 1111 Theory I*	3
POLS 1510 American Government (GE)	3	MUS 1121 Aural Training I*	1
Major Large Vocal Ensemble (Piano)	1	MUS 1390 Introduction to Music Education*	2
General Education Science w/lab	(1)	MUS 1610 Voice I	1
Semester Total	4	Major Large Vocal Ensemble (Piano)	1
	15-16	General Education MATH	(1)
		Semester Total	3
			17-18

Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
EDFL 2100 Foundations of Education	2	EDFL 2240 Educational Psychology	3
FLDX 2150 Introductory Field Experience	1	EDSP 2100 Education of the Exceptional Child	2
MUS 1000 Recital Attendance	0	MUS 1000 Recital Attendance	0
MUS 1112 Theory II*	3	MUS 1410, 1420, 1430, or 1440 (choose one)	.5
MUS 1122 Aural Training II*	1	MUS 1610 Voice I	1
MUS 1400 Computer Music Notation	.5	MUS 1615 Opera Theatre (spring only) or MUS 1620 Music Theatre Practicum I* (fall only)	1
MUS 1450 Audio and Acoustics (GE)	3	MUS 2111 Theory III*	3
MUS 1610 Voice I	1	MUS 2121 Aural Training III*	1
MUS 2300 Fundamentals of Conducting*	3	Major Large Vocal Ensemble (Piano)	1
MUS 2631 Diction for Singer I	1	General Education (Communication)	3
Major Large Vocal Ensemble (Piano)	(1)	Semester Total	15.5-
Semester Total	17.5-	(Successfully complete MoGEA exam by end of this semester)	16.5
	18.5		

Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
MUS 1000 Recital Attendance	0	MUS 1000 Recital Attendance	0
MUS 2112 Theory IV*	3	MUS 1225 Music of the World's Cultures (GE)	3
MUS 2122 Aural Training IV*	1	MUS 3212 Music History 1800-Present (GE)*	3
MUS 3211 Music History to 1800*	3	MUS 3610 Voice II	1.5
MUS 3305 Methods of Teaching Elementary School Music (offered fall semester of even numbered years only)	3	MUS 4230 Choral Literature*	3
MUS 3310 Choral Conducting*	3	PSY 4230 Psychology of Adolescence (GE)	3
MUS 3610 Voice II	1.5	Major Large Vocal Ensemble	1
MUS 4130 Choral Arranging* (offered fall semester of even numbered years only)	2	General Education	3
Major Large Vocal Ensemble	1	Semester Total	17.5
Semester Total	17.5		

Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
EDFL 3500 Sec. Teaching & Behavioral Management	3	FLDX 4595 Student Teaching Secondary I	5
FLDX 3550 Practicum in Secondary Instruction	1	FLDX 4468 Student Teaching Secondary II	4
MUS 1000 Recital Attendance	0	MUS 4310 Methods of Teaching Music	2
MUS 3315 Choral Techniques*	3	MUS 4350 Secondary Field Experience II	1
MUS 3610 Voice II	1.5	Semester Total	12
MUS 4320 Methods of Teaching Middle School Music*# (offered fall semester of odd numbered years only)	1		
Major Large Vocal Ensemble	3		
General Education (only 3 hours of General Education are needed here if the other 3 hours were taken in the first semester instead of MUS 1100)	3-6		
Semester Total	15.5-		
	18.5		

Music Education Major (Vocal Option), B.M.E. Degree – 126.5 hours min.

- +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).
- The Missouri General Education Assessment (MoGEA) is an exam required of all Teacher Education students. Students must pass all five 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.
- 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)

This guide is valid for the 2014 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
DANC 1140 Jazz Dance I	1	DANC 1130 Tap Dance I	1
ENGL 1020 Composition I (GE)	3	ENGL 1030 Composition II or CTE 3060 Technical Writing (GE)	3
MUS 1055 (GE), 3070 (GE), 3077, or 4050 (GE)*	1	MUS 1055 (GE), 3070 (GE), 3077, or 4050 (GE)*	1
MUS 1100 Fundamentals of Music (GE)	3	MUS 1111 Theory I	3
MUS 1610 Voice I	1	MUS 1121 Aural Training I	1
THEA 1400 Script Analysis	3	MUS 1610 Voice I	1
THEA 1500 Acting	3	THEA 1100 Oral Interpretation	3
Semester Total	15	THEA 1600 Stagecraft	3
AE 1400 Freshman Seminar**	1	Semester Total	16
Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
DANC 1110, 1120, 3110, or 3120***	1	DANC 3210 Musical Theatre Dance	3
DANC 3140 Jazz Dance II	1	MUS 1610 Voice I	1
MUS 1055 (GE), 3070 (GE), 3077, or 4050 (GE)*	1	THEA 1520 Stage Voice	3
MUS 1610 Voice I	1	THEA 1610 Stage Makeup	3
THEA 1510 Stage Movement	3	General Education	6
THEA 2610 Design Fundamentals	3	Semester Total	16
General Education	6		
Semester Total	16		
Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
DANC 1110, 1120, 3110, or 3120***	1	MUS 1502 Piano Class II	1
DANC 4310 Choreography I	3	MUS 1615 Opera Theatre	1
MUS 1501 Piano Class I	1	THE 4430 American Musical Theatre	3
THEA 3700 Directing	3	THEA 4500 Advanced Acting	3
General Education	9	General Education	6
Semester Total	17	Semester Total	14
Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
IGEN 3116, 3224, 3232, 4234, or 4244	3	DANC 3120 Tap Dance II	1
MUS 3610 Voice II	1.5	MUS 3610 Voice II	1.5
THEA 4400 Literature & History of the Theatre I	3	THEA 4420 Literature & History of the Theatre II	3
THEA 4510 Period Acting Styles	3	THEA 4910 Senior Showcase	1
General Education	3	General Education	6
Semester Total	13.5	Semester Total	12.5

Musical Theatre Major, B.F.A. Degree - 124 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.
- **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.
- ***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.
- 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)

This guide is valid for the 2014 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
CHEM 1104 Introduction to the Sciences: Chemistry (GE)*	4	BIOL 3401 Human Anatomy*	3
ENGL 1020 Composition I (GE)	3	ENGL 1030 Composition II (GE) or CTE 3060 Tech. Writing (GE)	3
NUR 1700 Introduction to Professional Nursing**	1	PSY 1100 General Psychology (GE)*	3
SOC 1800 General Sociology (GE)*	3	General Education	6
General Education	3	Semester Total	15
Semester Total	14		

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
General Education	8-9	Nursing Elective***	2
Semester Total	16-17	General Education	9
		Semester Total	15

-- 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 Nrsng. I Practicum	4
NUR 3305 Assessment Across the Lifespan Lab	1	NUR 3612 Technical Nursing Applications II	2
NUR 3410 Concepts of Nursing in Wellness	3	NUR 4012 Evidence-based Practice	2
NUR 3411 Concepts of Nursing in Wellness Practicum	2	NUR 4013 Health Policy & Ethics	2
NUR 3412 Technical Nursing Applications I	1	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	3	NUR 4600 Con. of Nursing Leadership in Mgmt CH/MH	6
NUR 4410 Concepts of Maternal-Child Nursing	3	NUR 4601 Concepts of Nursing Leadership in Management & Community Health/Mental Health Practicum	6
NUR 4411 Concepts of Maternal-Child Nursing Practicum	2	NUR 4602 Synthesis of Nursing Concepts	1
NUR 4510 Concepts of Adult & Older Adult Nursing II	3	Semester Total	13
NUR 4511 Concepts of Adult & Older Adult Nrsng. II Practicum	3		
NUR 4512 Advanced Tech. & Pharmacological Nursing Apps.	2		
Semester Total	16		

Nursing Major, B.S. Degree - 120 hours

- *Nursing Program Prerequisite Courses (must be taken prior to admission to the program). Preference for admission into the Nursing major will be given to students taking ALL prerequisites at UCM.
- **Lower Level Required Nursing Courses (must be taken prior to admission to the program).
- ***Nursing electives may be taken anytime after sophomore standing is achieved. One Nursing elective course is required from the following: NUR 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; and NUR 4405 Aging of Self and Others.
- #NUR 3200 may be taken prior to entry into the program or in the Nursing program.
- To satisfy the General Education Assessment (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 Education Major, B.S. Degree (43-249)

This guide is valid for the 2014 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
CTE 2000 Technology & Society (GE)		3	CTE 3060 Technical Writing (GE)		3
ENGL 1020 Composition I (GE)		3	Teaching Specialty Area		6
Teaching Specialty Area		3	General Education		6
General Education		6	Semester Total		15
Semester Total		15			

Sophomore Year - Fall Semester		Hrs	Sophomore Year - Spring Semester		Hrs
EDFL 2240 Educational Psychology (GE)		3	EDSP 2100 Education of the Exceptional Child		2
Teaching Specialty Area		3	SOT 4570 Computer Graphics		3
General Education		10	Teaching Specialty Area		6
Semester Total		16	General Education		3
			Semester Total		14

Junior Year - Fall Semester		Hrs	Junior Year - Spring Semester		Hrs
CTE 4145 Curriculum Construction in Career & Technical Edu.		3	IGEN 3116 Creative Problem Solving		3
Teaching Specialty Area		6	Teaching Specialty Area		7
General Education		6	Free Choice Elective		5
Semester Total		15	Semester Total		15

Senior Year - Fall Semester		Hrs	Senior Year - Spring Semester		Hrs
CTE 4110 Foundations of Career & Technology Education (fall only) or CTE 4140 New Teacher Institute (fall only)		3	CTE 4022 Teaching/Administration Intern		3
CTE 4160 Methods of Teaching Career & Technical Education		3	CTE 4150 Vocational Guidance or BTE 4241 Coordination of Cooperative Education Programs		2-3
CTE 4180 Adult Education and Training (fall, even years only) or EDFL 3500 Secondary Teaching & Behavioral Management		3	CTE 4165 Performance Assessment in Career & Technical Edu.		3
Teaching Specialty Area		3	Teaching Specialty Area		6
Free Choice Elective		3	Free Choice Elective (depends on course chosen above)		0-1
Semester Total		15	Semester Total		15

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

- Students completing this program online should seek advice from the department and academic advisors for available online general education classes.
- To satisfy the General Education Assessment (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 2014 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	CHEM 1104 Introduction to the Sciences: Chemistry (GE)	4
MATH 1111 College Algebra (GE)*	3	CTE 3060 Technical Writing (GE)	3
SAFE 1000 Exploring Safety Sciences	1	PSY 1100 General Psychology (GE)	3
SAFE 3000 Principles of Accident Causation & Prevention	3	General Education	6
General Education	5-6	Semester Total	16
Semester Total	15-16		

Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
BIOL 2010 Human Biology	3	CHEM 1604 Elementary Organic & Biochemistry*	4
PHYS 1104 Introduction to the Sciences: Physics (GE)*	4	SAFE 3430 Industrial Hazard Control	3
SAFE 2900 Applied Sciences for Professional Studies	3	SAFE 4000 Ergonomics in Safety & Health	3
General Education	6	General Education	3
Semester Total	16	Semester Total	13

Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
SAFE 3120 Introduction to Industrial Hygiene	3	SAFE 4020 Legal Aspects of Safety & Health	3
SAFE 4425 Safety & Health Legislation & Standards	3	SAFE 4140 Safety & Health Lab	3
General Education	3	SAFE 4430 Workers Compensation Legislation	3
Departmentally Approved Elective**	3	SAFE 4560 Systems Safety	3
Free Choice Elective	3	Free Choice Elective	3
Semester Total	15	Semester Total	15

Summer - Between Junior & Senior Year	Hrs
SAFE 4990 Internship in Safety Sciences***	3
Semester Total	3

Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
SAFE 4010 Accident Investigation	3	SAFE 4055 Safety Capstone Experience	3
SAFE 4035 Safety Program Management	3	SAFE 4160 Industrial Ventilation for Envir. Safety & Health	3
SAFE 4850 Industrial Fire Protection	3	SAFE 4435 Environmental Compliance	3
SAFE 4940 Statistical Analysis for Risk Management	3	Free Choice Elective	3
Free Choice Elective	3	Semester Total	12
Semester Total	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.
- **This major requires 3 hours of Departmentally Approved Electives. You must have these courses pre-approved by the major program coordinator before enrolling in them. Course substitutions will be required before graduation to have these courses appropriately reflected on your Central Degree audit.
- ***SAFE 4990 Internship in Safety Sciences (3 hrs) is taken the summer after the junior year.
- Students seeking to graduate from this program must have a minimum 2.20 cumulative grade-point average and have completed CHEM 1604, PHYS 1104, and MATH 1111 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.

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

This guide is valid for the 2014 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 Technical Writing (GE)	3
PHIL 1000 Introduction to Philosophy (GE)	3	PHIL 2300 Ethics (GE)	3
Modern Language Requirement*	3	Modern Language Requirement*	3
General Education	6	General Education	6
Semester Total	15	Semester Total	15
AE 1400 Freshman Seminar**	1		
Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
PHIL 1400 Deductive Logic or PHIL 1410 Critical Thinking	3	ENGL 2220 World Masterpieces (GE)*	3
PHIL 3130 History of Philosophy II: Enlightenment Thought	3	PHIL 3120 History of Philosophy I: Ancient Thought	3
General Education	6	General Education	6
Free Choice Electives	3	Free Choice Electives	3
Semester Total	15	Semester Total	15
Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
PHIL 3600 Special Topics in Philosophy	3	PHIL 3660 Studies in Literature & Philosophy	3
PHIL Major Elective***	3	PHIL Major Elective***	3
General Education	3	Free Choice Electives	9
Free Choice Electives	6	Semester Total	15
Semester Total	15		
Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
PHIL 4710 Philosophy of Religion	3	PHIL 4250 Special Projects in Philosophy	3
Free Choice Electives	12	Free Choice Electives	12
Semester Total	15	Semester Total	15

Philosophy Major, B.A. Degree - 120 hours

- *Refer to the Bachelor’s Degree Requirements section of the catalog for the BA Modern Language requirements. This plan is based on 6 hours of modern language and 3 hours of ENGL 2220.
- **AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- ***Six hours of PHIL Major Electives are required. See the 2014 Undergraduate Catalog for list of appropriate choices.
- This major does not build in the minimum number (30) of upper-level credit hours required for graduation. Be sure to include upper-level choices (3000/4000) in your major electives, general education, and/or free choice electives.
- To satisfy the General Education Assessment (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 2014 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
<i>ENGL 1020 Composition I (GE)#</i>	3	<i>ENGL 1030 Composition II or CTE 3060 Technical Writing (GE)</i>	3
<i>HIST 1350 or 1351 History of the United States (GE)#</i>	3	PE 1450 Growth & Development in Elementary Physical Educ.#	3
<i>MATH 1111 College Algebra (GE)#</i>	3	PE 1800 Functional Anatomy#	3
PE 1100 Physical Education Orientation, History, & Philosophy#	2	PE 2472 Communicating Ideas on Sport (GE)#	3
PE 1206 Fitness for a Global Community (GE)#	3	<i>General Education Science w/lab</i>	4
Semester Total	14	Semester Total	16

Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
EDFL 2100 Foundations of Education#	2	PE 2450 Motor Learning and Control#	3
FLDX 2150 Introductory Field Experience#	1	PE 2850 Foundations of Exercise Physiology#	3
EDFL 2240 Educational Psychology (GE)#	3	General Education	11
EDSP 2100 Education of the Exceptional Child#	2	Semester Total	17
PE 2100 Foundations of Teaching Physical Education#	3	<i>(Successfully complete MoGEA exam by end of this semester)</i>	
POLS 1510 American Government (GE)#	3		
General Education	3		
Semester Total	17		

Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
AT 3610 Care & Prevention of Injuries#	3	EDFL 4210 The Teaching of Reading in the Secondary School#	2
PE 2800 Biomechanics#	3	PE 3320 Analysis & Teaching of Elementary Skills#	3
PE 3310 Analysis & Teaching of Physical Training#	3	PE 3330 Analysis & Teaching of Secondary Skills#	3
PE 4340 Adapted Physical Education#	3	PE 3340 Analysis & Teaching of Lifetime Activities#	3
PSY 4230 Psychology of Adolescence#	3	PE 4740 Legal Liability in F/W, PE, Rec. & Sport Settings#	2
Semester Total	15	PE 4830 Psychological Aspects of Physical Education#	2
		PE 4840 Social Aspects of Physical Activity#	2
		Semester Total	17

Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester**	Hrs
PE 3500 Teaching and Management in PreK-12 Physical Educ.#**	3	FLDX 4495 Student Teaching Elementary I#	5
PE 3550 Practicum in PreK-12 Physical Education#**	1	FLDX 4468 Student Teaching Secondary II#	4
PE 4450 Tech. of Teaching PE Activities in the Elem. Schools#**	3	PE 4880 Methods of Teaching Physical Education#	2
PE 4460 Tech. of Teaching PE Act. in Middle Schools & HS#**	3	PE 4885 Secondary Field Experience#	1
PE 4760 Curriculum & Assessment in Physical Education#	4	Semester Total	12
Semester Total	14		

**Physical Education Major - Option 1 Elementary-Secondary Certification K-12, B.S. Degree
122 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 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.
- The Missouri General Education Assessment (MoGEA) is an exam required of all Teacher Education students. Students must pass all five 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.
- 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 2014 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	MATH 1111 College Algebra (GE)*	3
PE 1101 Introduction to Exercise Science*	3	PE 1800 Functional Anatomy*	3
PE 1206 Fitness for a Global Community (GE)*	3	PSY 1100 General Psychology (GE)*	3
General Education	6	General Education Managing Information	2-3
Semester Total	15	General Education	3
AE 1400 Freshman Seminar**	1	Semester Total	14-15
Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
CTE 3060 Technical Writing (GE)*	3	ACCT 2101 Principles of Financial Accounting*	3
HED 1350 Responding to Emergencies*	3	AT 3610 Care & Prevention of Injuries*	3
PE 2472 Communicating Ideas on Sport (GE)*	3	HED 4300 Nutrition & Human Performance*	3
PE 2850 Foundations Exercise Physiology*	3	PE 2900 Essentials of Personal Training*	3
General Education Science with Laboratory	4	General Education	3
Semester Total	16	Semester Total	15
Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
BLAW 2720 Legal Environment of Business*	3	MKT 3420 Principles Advertising*	3
MKT 3405 Marketing Policy*	3	PE 4341 Physical Activity & Special Populations*	3
PE 2800 Biomechanics*	3	PE 4740 Legal Liability in F/W, PE, Rec., & Sport Settings*	2
PE 4340 Adapted Physical Education*	3	PE 4870 Clinical Exercise Physiology*	3
PE 4850 Assessment & Evaluation of Fitness/Wellness*	3	General Education	6
Semester Total	15	Semester Total	17
Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
MKT 3430 Professional Sales*	3	PE 4765 Internship*#	6
PE 4860 Fitness Programming & Implementation*	3	Free Choice Electives	6
Free Choice Electives	9-10	Semester Total	12
Semester Total	15-16		

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.
- 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 2014 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	CHEM 1104 Intro. to the Sciences: Chemistry (w/lab) (GE)*	4
MATH 1111 College Algebra (GE)*	3	PE 1800 Functional Anatomy*	3
PE 1101 Introduction to Exercise Science*	3	PE 2472 Communicating Ideas on Sport (GE)*	3
PE 1206 Fitness for a Global Community (GE)*	3	General Education Managing Information	2-3
PSY 1100 General Psychology (GE)*	3	General Education	3
Semester Total	15	Semester Total	15-16
AE 1400 Freshman Seminar**	1		
Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
BIOL 3401 Human Anatomy*	3	AT 3610 Care & Prevention of Injuries*	3
CTE 3060 Technical Writing (GE)*	3	BIOL 3402 Human Physiology*	5
HED 1350 Responding to Emergencies*	3	PE 2850 Foundations Exercise Physiology*	3
PE 2900 Essentials of Personal Training*	3	General Education	6
General Education	3	Semester Total	17
Semester Total	15		
Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
D&N 3340 Nutrition*	3	CHEM 1604 Elementary Organic & Biochemistry* or	
PE 2800 Biomechanics*	3	PHYS 1104 Introduction to the Sciences: Physics (GE)*	4
PE 4340 Adapted Physical Education*	3	PE 4341 Physical Activity & Special Populations*	3
PE 4850 Assessment & Evaluation Fitness/Wellness*	3	PE 4740 Legal Liability in F/W, PE, Rec., & Sport Settings*	2
General Education	3	PE 4870 Clinical Exercise Physiology*	3
Semester Total	15	General Education (or Free Choice Elective if PHYS 1104 is chosen)##	3
		Semester Total	15
Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
HED 4300 Nutrition & Human Performance*	3	PE 4765 Internship*#	6
PE 4860 Fitness Program & Implementation*	3	PSY 4520 Statistics for the Behavioral Sciences*	3
Free Choice Electives	9	Free Choice Electives##	3-4
Semester Total	15	Semester Total	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.
- 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 2014 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
<i>ENGL 1020 Composition I (GE)</i>	3	CS 1100 Computer Programming I	3
<i>MATH 1151 Calculus & Analytical Geometry I (GE)*</i>	5	<i>ENGL 1030 Composition II or CTE 3060 Technical Writing (GE)</i>	3
PHYS 3020 Special Topics in Physics (Astronomy)	3	MATH 1152 Calculus & Analytical Geometry II	5
General Education	3	PHYS 1101 College Physics I or PHYS 2121 University Physics I	4-5
Semester Total	14	Semester Total	15-16
AE 1400 Freshman Seminar**	1		
Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
<i>CHEM 1131 General Chemistry I (GE)*</i>	5	BIOL 1005 Introduction to Environmental Science (GE)	3
EDFL 2100 Foundations of Education	2	CHEM 1132 General Chemistry II	5
FLDX 2150 Introductory Field Experience	1	<i>HIST 1350 or 1351 History of the United States (GE)</i>	3
EDFL 2240 Educational Psychology (GE)	3	POLS 1510 American Government (GE)	3
EDSP 2100 Education of the Exceptional Child	2	General Education	3
PHYS 1102 College Physics II or PHYS 2122 Univer. Physics II	4-5	Semester Total	17
Semester Total	17-18	<i>(Successfully complete MoGEA exam by end of this semester)</i>	
Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
BIOL 1110 Principles of Biology or BIOL 1111 Plant Biology	3-4	EASC 1004 Introduction to Geology or EASC 1114 or GEOG 1114 Weather & Climate	4
PHYS 4411 Thermodynamics or CHEM 4531 Physical Chemistry: Thermodynamics & Kinetics	3-4	EDFL 4210 The Teaching of Reading in the Secondary School	2
EDFL 4300 Educational Measurement & Evaluation	2	PHYS 3080 Advanced Physics Lab and PHYS 3511 Modern Physics I or CHEM 4532 Physical Chemistry: Quantum Mechanics & Spectroscopy	4
General Education	5-6	PSY 4230 Psychology of Adolescence	3
Semester Total	13-16	General Education	3
		Semester Total	16
Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester***	Hrs
EDFL 3500 Secondary Teaching & Behavioral Management	3	FLDX 4595 Student Teaching Secondary I	5
FLDX 3550 Practicum in Secondary Instruction	1	FLDX 4468 Student Teaching Secondary II	4
PHIL 3800 Philosophy of Science and Technology	3	STCH 4080 Teaching Secondary Science	3
PHYS 3020 Special Topics in Physics or PHYS 4911 Special Problems in Physics	1-3	Semester Total	12
STCH 4050 Science Teaching Methods	3		
General Education	3		
Free Choice Elective**	0-2		
Semester Total	14-18		

Physics Major, B.S. in Ed. Degree - 120-124 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. Depending on choices made in the major, free choice electives may not be needed to reach the minimum hours required for graduation (120).
- ***The courses listed for this semester constitute the professional education (student teaching) block. The student should not take any other courses during this semester.
- The Missouri General Education Assessment (MoGEA) is an exam required of all Teacher Education students. Students must pass all five 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.
- 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.

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

This guide is valid for the 2014 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 Technical Writing (GE)	3
POLS 1500 Introduction to Politics (GE)	3	POLS 1510 American Government (GE)	3
Modern Language Requirement (GE)*	3	Modern Language Requirement*	3
General Education	6	General Education	6
Semester Total	15	Semester Total	15
AE 1400 Freshman Seminar**	1		
Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
POLS 2520 Comp. Gov't. & Politics or 2530 World Politics	3	POLS 2540 Survey of Political Theory	3
Modern Language Requirement*	3	POLS Elective***	6
General Education	9	General Education	6
Semester Total	15	Semester Total	15
Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
POLS Elective***	3	POLS 3560 Research Methods in Political Science	3
Free Choice Electives	12	POLS Concentration Area Elective	3
Semester Total	15	Free Choice Electives	9
		Semester Total	15
Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
POLS 4601 Senior Seminar in Political Science	3	POLS Concentration Area Elective	3
POLS Concentration Area Elective	3	Free Choice Electives	12
Free Choice Electives	9	Semester Total	15
Semester Total	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.
- 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.

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

This guide is valid for the 2014 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 Technical Writing (GE)	3
POLS 1500 Introduction to Politics (GE)	3	POLS 1510 American Government (GE)	3
General Education	9	General Education	9
Semester Total	15	Semester Total	15
AE 1400 Freshman Seminar*	1		

Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
POLS 2520 Comp. Gov't. & Politics or 2530 World Politics	3	POLS 2540 Survey of Political Theory	3
POLS Elective**	3	POLS Elective**	3
General Education	9	General Education	3
Semester Total	15	Free Choice Elective	6
		Semester Total	15

Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
POLS Elective**	3	POLS 3560 Research Methods	3
Free Choice Electives	12	POLS Concentration Area Elective	3
Semester Total	15	Free Choice Electives	9
		Semester Total	15

Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
POLS 4601 Senior Seminar in Political Science	3	POLS Concentration Area Elective	3
POLS Concentration Area Electives	3	Free Choice Electives	12
Free Choice Electives	9	Semester Total	14-15
Semester Total	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.
- 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 2014 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 Technical Writing (GE)	3
PHOT 1210 Foundations of Professional Photography	3	PHOT 2200 Editorial Photography	3
PHOT 1211 Image Critique	1	PHOT 2210 Studio Photography	3
PHOT 1216 Photographer's Forum 1	1	General Education	6
PHOT 1230 Digital Imaging	3	Semester Total	15
General Education	3		
Semester Total	14		
AE 1400 Freshman Seminar*	1		

Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
PHOT 2216 Photographer's Forum 2	1	PHOT 2215 History of Photography	3
PHOT 2220 Digital Workflow	3	General Education	12
PHOT 2250 Portrait Photography	3	Semester Total	15
General Education	9		
Semester Total	16		

Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
PHOT 2230 Color Imaging	3	PHOT 3260 Digital Media	3
PHOT 3216 Photographer's Forum 3**	1	PHOT Major Electives	6
PHOT Major Elective	3	Free Choice Electives (must be upper level 3000/4000)#	7
General Education	6	Semester Total	16
Free Choice Elective	3		
Semester Total	16		

Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
PHOT 4216 Photographer's Forum 4	1	PHOT 4270 Portfolio	3
PHOT 4230 Business Management for Photographers	3	Free Choice Electives (take upper level 3000/4000 if needed)#	9
PHOT Major Elective	3	Semester Total	12
Free Choice Electives	9		
Semester Total	16		

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.
- 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)

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Freshman Year - Fall Semester

AVIA 1020 Aeronautics	2
AVIA 1310 FAA Private Requirements	3
ENGL 1020 Composition I (GE)	3
FLYA 1320 Private Flight A	1
MATH 1131 Applied Calculus (GE)	3
General Education	3
Semester Total	15
AE 1400 Freshman Seminar*	1

Freshman Year - Spring Semester

ECON 1010 Principles of Macroeconomics (GE)	3
ENGL 1030 Composition II (GE)	3
FLYA 1321 Private Flight B	1
FLYA 3310 Commercial Flight A	1
PHYS 1104 Introduction to the Sciences: Physics (GE)	4
General Education	3
Semester Total	15

Sophomore Year - Fall Semester

AVIA 2310 Propulsion Systems	3
AVIA 3325 FAA Instrument Requirements	3
FLYA 3313 Instrument Flight A	1
FLYA 3314 Instrument Flight B	1
General Education	6
Semester Total	14

Sophomore Year - Spring Semester

AVIA 2340 Aircraft Systems & Computers	3
AVIA 3305 FAA Commercial Requirements	3
AVIA 4350 Aviation Weather (spring only)	3
FLYA 3311 Commercial Flight B	1
FLYA 3312 Commercial Flight C	1
General Education	5
Semester Total	16

Junior Year - Fall Semester

ATM 4032 Hydraulics/Pneumatics	3
AVIA 4010 Aerodynamics	3
AVIA 4220 Transport Aircraft Systems	2
FLYA 3315 Commercial Flight D or FLYA 3415 Commercial Flight D Multiengine	1
FLYA 3316 Commercial Flight E or FLYA 3416 Commercial Flight E Multiengine	1
MGT 3325 Business Communications	3
General Education	3
Semester Total	16

Junior Year - Spring Semester

AVIA 3610 Human Factors	3
AVIA 4250 Flight Management Systems	3
AVIA 4310 Air Traffic Control	2
FLYA 3317 Commercial Flight F or FLYA 3417 Commercial Flight F Multiengine	1
MGT 3315 Management of Organizations or INDM 4210 Industrial Management	3
General Education	3
Semester Total	15

Senior Year - Fall Semester

AVIA 4040 Aviation Management	3
AVIA 4370 Advanced Flight Crew Management	3
AVIA 4420 Air Transportation	3
FLYA 3330 Multi Engine Certificate or FLYA 3430 Single-Engine Add-On	1
Major Area 1 Electives	1
General Education	3
Semester Total	14

Senior Year - Spring Semester

AVIA 4090 Aviation Law	3
AVIA 4500 Aviation Safety	3
AVIA 4999 Integrative Studies Capstone	3
Major Area 1 Electives	3
Free Choice Electives*	3
Semester Total	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.
- 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)

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Freshman Year - Fall Semester

AVIA 1020 Aeronautics	2
AVIA 1310 FAA Private Requirements	3
ENGL 1020 Composition I (GE)	3
FLYA 1320 Private Flight A	1
MATH 1131 Applied Calculus (GE)	3
General Education	3
Semester Total	15
AE 1400 Freshman Seminar*	1

Freshman Year - Spring Semester

ECON 1010 Principles of Macroeconomics (GE)	3
ENGL 1030 Composition II (GE)	3
FLYA 1321 Private Flight B	1
FLYH 1320 Private Helicopter Flight A Add-on	1
PHYS 1104 Introduction to the Sciences: Physics (GE)	4
General Education	2
Semester Total	14

Sophomore Year - Fall Semester

AVIA 1330 Principles of Helicopter Flight	2
AVIA 2310 Propulsion Systems	3
AVIA 3325 FAA Instrument Requirements	3
FLYH 1321 Private Helicopter Flight B Add-on	1
FLYH 3310 Commercial Flight A Helicopter	1
General Education	6
Semester Total	16

Sophomore Year - Spring Semester

AVIA 2340 Aircraft Systems & Computers	3
AVIA 3305 FAA Commercial Requirements	3
AVIA 4350 Aviation Weather (spring only)	3
FLYH 3311 Commercial Flight B Helicopter	3
FLYH 3312 Commercial Flight C Helicopter	1
General Education	1
Semester Total	3
	14

Junior Year - Fall Semester

ATM 4032 Hydraulics/Pneumatics	3
AVIA 4010 Aerodynamics	3
AVIA 4220 Transport Aircraft Systems	2
FLYH 3315 Commercial Flight D Helicopter	1
FLYH 3316 Commercial Flight E Helicopter	1
MGT 3325 Business Communications	3
General Education	3
Semester Total	16

Junior Year - Spring Semester

AVIA 3610 Human Factors	3
AVIA 4250 Flight Management Systems	3
AVIA 4310 Air Traffic Control	2
FLYH 3317 Commercial Flight F Helicopter	1
MGT 3315 Management of Organizations or INDM 4210 Industrial Management	3
General Education	3
Semester Total	15

Senior Year - Fall Semester

AVIA 4040 Aviation Management	3
AVIA 4370 Advanced Flight Crew Management	3
AVIA 4420 Air Transportation	3
General Education	6
Semester Total	15

Senior Year - Spring Semester

AVIA 4090 Aviation Law	3
AVIA 4500 Aviation Safety	3
AVIA 4999 Integrative Studies Capstone	3
Major Area 2 Electives	3
Free Choice Electives*	3
Semester Total	15

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.
- 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)

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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 Technical Writing (GE)	3
PSY 1000 Orientation to Psychology	1	Modern Language Requirement*	3
PSY 1100 General Psychology (GE)	3	General Education	9
Modern Language Requirement (GE)*	3	Semester Total	15
General Education	6		
Semester Total	16		

Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
PSY 2100 Research Methods (Choices 1 & 2) (3 hrs) or PSY 2110 Research Design & Analysis I (Choices 3 & 4) (4 hrs)**#	3-4	PSY 4520 Stats for the Behavioral Sci. (Choices 1 & 2) (3 hrs) or PSY 2120 Res. Des. & Analysis II (Choices 3 & 4) (4 hrs)**#	3-4
Modern Language Requirement*	3	PSY 2130 Learning	3
General Education	9	General Education	6
Semester Total	15-16	Free Choice Electives	3
		Semester Total	15-16

Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
PSY 3120 Brain & Behavior (Choices 1 & 3) or PSY 3130 Physiological Psychology (Choices 2 & 4)#	3-4	PSY 3340 Social Psychology	3
PSY 3220 Lifespan Development	3	PSY 4440 Abnormal Psychology	3
Free Choice Electives	8	Free Choice Electives	9
Semester Total	14-15	Semester Total	15

Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
PSY 4310 Theories of Personality	3	PSY 4110 Systems of Psychology	3
Free Choice Electives (Upper Level 3000/4000)#	12	Free Choice Electives	9-12
Semester Total	15	Semester Total	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 2014 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.
- 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.S. Degree (43-747)

This guide is valid for the 2014 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 Technical Writing (GE)	3
PSY 1000 Orientation to Psychology	1	General Education	12
PSY 1100 General Psychology (GE)	3	Semester Total	15
General Education	9		
Semester Total	16		
Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
PSY 2110 Research Design & Analysis I (fall only)**	4	PSY 2120 Research Design & Analysis II (spring only)**	4
General Education	9	PSY 2130 Learning	3
Free Choice Electives	2	General Education	3
Semester Total	15	Free Choice Electives	5
		Semester Total	15
Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
PSY 3130 Physiological Psychology	4	PSY 3340 Social Psychology	3
PSY 3220 Lifespan Development	3	PSY 4440 Abnormal Psychology	3
Free Choice Electives	8	PSY Major Electives*	3
Semester Total	15	Free Choice Electives (Upper Level 3000/4000)#	9
		Semester Total	15
Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
PSY 4310 Theories of Personality	3	PSY 4110 Systems of Psychology	3
PSY Major Electives*	3	PSY Major Electives*	3
Free Choice Electives (at least 3 hrs Upper Level 3000/4000)#	9	Free Choice Electives	8
Semester Total	15	Semester Total	14

Psychology Major, B.S. Degree - 120 hours

- *See the 2014 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 and 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.

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

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Freshman Year - Fall Semester	Hrs	Freshman Year - Spring Semester	Hrs
COMM 1000 Public Speaking or COMM 1050 Fundamentals of Oral Communication Competency (GE)*	3	COMM 2625 Writing & Editing for Public Relations*	3
COMM 1100 Introduction to Communication	1	ENGL 1030 Composition II or CTE 3060 Technical Writing (GE)*	3
COMM 2620 Introduction to Public Relations*	3	General Education	9
ENGL 1020 Composition I (GE)*	3	Semester Total	15
General Education	3		
Semester Total	13		
Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
COMM 2100 Introduction to Communication Theory	3	COMM 3100 Communication Research Methods	3
COMM 3620 Strategic Planning & Research for PR*	3	COMM 3625 Design & Layout for Publications	3
General Education	9	General Education	9
Semester Total	15	Semester Total	15
		(**Apply for admission to the major during this semester.)	
Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
COMM 3640 Integrated Strategic Communication	3	COMM 4630 Electronic & Social Media for PR	3
COMM 4250 The Law & Digital Media	3	COMM 4685 Strategic Planning through PR Case Analysis	3
COMM 4680 Advanced PR Writing	3	COMM Major Elective***	3
General Education	3	Free Choice Electives#	6
Free Choice Elective	3	Semester Total	15
Semester Total	15		
Junior/Senior Year - Summer Semester	Hrs		
COMM 4605 PR Internship##	3		
Semester Total	3		
Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
COMM 4610 PR Management & Industry Practices	3	COMM 4690 Campaigns	3
COMM Major Elective***	3	COMM Major Elective***	3
Free Choice Electives#	9	Free Choice Electives#	8
Semester Total	15	Semester Total	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, 2620, 2625, and 3620 with a grade of C or higher; completion of 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; and a 2.33 or higher cumulative GPA.
- ***This major requires 9 hours of COMM major electives from the following list: COMM 3650, 4200, 4510, 4600, 4605, 4625, 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.
- 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 2014 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 3215 Medical Terminology	2
BIOL 1110 Principles of Biology	3	BIOL 3401 Human Anatomy	3
CHEM 1131 General Chemistry I (GE)	5	ENGL 1030 Composition II (GE)	3
ENGL 1020 Composition I (GE)	3	PSY 1100 General Psychology (GE)	3
MATH 1111 College Algebra (GE)	3	General Education	6
SOC 1800 General Sociology (GE)	3	Semester Total	17
Semester Total	18		
Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
BIOL 3402 Human Physiology	5	BIOL 3211 Comparative Anatomy	4
PHYS 1101 College Physics I (GE)	4	BIOL 3611 Microbiology	4
General Education	8	BIOL 4002 Life Science Senior Seminar	1
Semester Total	17	COMM 1000 Public Speaking (GE)	3
		PHIL 2300 Ethics (GE)	3
		Semester Total	15
Junior Year - Fall Semester - Special Credit	Hrs	Junior Year - Spring Semester - Special Credit	Hrs
Radiologic Technology Special Credits	12	Radiologic Technology Special Credits	12
Semester Total	12	Semester Total	12
Junior Year - Summer Semester - Special Credit	Hrs		
Radiologic Technology Special Credit	6		
Semester Total	6		
Senior Year - Fall Semester - Clinical	Hrs	Senior Year - Spring Semester - Clinical	Hrs
Clinical Credits	12	Clinical Credits	12
Semester Total	12	Semester Total	12
Senior Year - Summer Semester - Clinical	Hrs		
Clinical Credits	6		
Semester Total	6		

Radiologic Technology, B.S. Degree - 127 hours

- 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 2014 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	CHEM 1104 Introduction to the Sciences: Chemistry (GE)*	4
MATH 1111 College Algebra (GE)	3	CTE 3060 Technical Writing (GE)	3
SAFE 1000 Exploring Safety Sciences	1	PSY 1100 General Psychology (GE)	3
SAFE 3000 Principles of Accident Causation & Prevention	3	General Education	5-6
General Education	6	Semester Total	15-16
Semester Total	16		
Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
PHYS 1103 Introduction to the Sciences: Physics (GE)*	3	SAFE 3430 Industrial Hazard Control	3
SAFE 3070 Safety Leadership	3	SAFE 4510 Loss Control	3
SAFE 4020 Legal Aspects of Safety & Health	3	SAFE 4520 Safety & Risk Analysis	3
General Education	6	General Education	6
Semester Total	15	Semester Total	15
Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
SAFE 3120 Introduction to Industrial Hygiene	3	SAFE 4430 Workers Compensation Legislation	3
SAFE 4000 Ergonomics in Safety & Health	3	SAFE 4560 Systems Safety	3
SAFE 4010 Accident Investigation	3	SAFE 4850 Industrial Fire Protection	3
SAFE 4425 Safety & Health Legislation & Standards	3	Free Choice Elective or Optional Minor Coursework	6
Free Choice Elective or Optional Minor Coursework	3	Semester Total	15
Semester Total	15		
Summer - Between Junior & Senior Year	Hrs		
SAFE 4990 Internship in Safety Sciences** or Departmentally Approved Elective	3		
Semester Total	3		
Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
SAFE 4035 Safety Program Management	3	SAFE 4055 Safety Capstone Experience	3
SAFE 4140 Safety & Health Laboratory	3	SAFE 4435 Environmental Compliance	3
SAFE 4940 Statistical Analysis for Risk Management	3	Free Choice Elective or Optional Minor Coursework	6
Free Choice Elective or Optional Minor Coursework	5	Semester Total	12
Semester Total	14		

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

- *A grade of C or higher is required in these courses for graduation in this major.
- **SAFE 4990 should be taken during the summer.
- 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)

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Freshman Year - Fall Semester

ENGL 1020 Composition I (GE)	Hrs
HIST 1350 History of the United States to 1877 (GE)	3
SOC 1800 General Sociology (GE)	3
General Education Science w/lab	4
General Education	3
Semester Total	16

Freshman Year - Spring Semester

ECON 1010 Principles of Macroeconomics or ECON 1011 Principles of Microeconomics*	Hrs
ENGL 1030 Composition II or CTE 3060 Technical Writing (GE)	3
HIST 1351 History of the United States from 1877	3
POLS 1510 American Government	3
General Education Math	3
Semester Total	15

Sophomore Year - Fall Semester

CTE 2000 Technology and Society (GE)	Hrs
EDFL 2100 Foundations of Education	3
FLDX 2150 Introductory Field Experience	2
EDFL 2240 Educational Psychology	1
EDSP 2100 Education of the Exceptional Child	3
HIST 2401 History of the Early Modern World	2
Semester Total	14

Sophomore Year - Spring Semester

GEOG 2212 World Geography	Hrs
HIST 2400 History of the Early World or HIST 2402 History of the Modern World	3
POLS 2511 State Government	3
General Education	3
Semester Total	15

(Successfully complete MoGEA exam by end of this semester)

Junior Year - Fall Semester

EDFL 4300 Educational Measurement & Evaluation	Hrs
HIST Upper-Level Electives**	2
SOSC 3010 Writing in the Social Studies	6
Upper-Level Elective in SOC or ANTH	3
General Education	3
Semester Total	17

Junior Year - Spring Semester

EDFL 4210 The Teaching of Reading in the Secondary School	Hrs
HIST Upper-Level Electives**	2
PSY 4230 Psychology of Adolescence (GE)	6
SOSC 4050 The Social Studies	3
General Education	3
Semester Total	17

Senior Year - Fall Semester

EDFL 3500 Secondary Teaching & Behavioral Management	Hrs
FLDX 3550 Practicum in Secondary Instruction	3
SOSC 4074 Methods of Teaching Social Studies	1
Upper-Level Electives in Major from ANTH, ECON, GEOG, HIST, POLS or SOC+	3
Upper-Level Elective in GEOG+	6
Free Choice Elective (only needed if GEOG class above overlaps with general education Engagement area)	3
Semester Total	17

Senior Year - Spring Semester++

FLDX 4595 Student Teaching Secondary I	Hrs
FLDX 4468 Student Teaching Secondary II	5
Semester Total	9

Social Studies Major, B.S. in Ed. Degree - 120-122 hours

- *Native UCM students should take ECON 1010, as ECON 1011 has a prerequisite of 1010. For transfer students who have already completed ECON 1011, this will be accepted.
- **See catalog for a list of History classes to fulfill the upper-level electives in American History (HIST 43XX) and World History (HIST 44XX) requirements.
- + Students choose upper-level electives from at least two of the following prefixes: ANTH, ECON, GEOG, HIST, POLS, or SOC. If GEOG 3101 or 3201 is chosen, this course will overlap with general education and students will need one hour of free choice elective to reach 120 hours. This plan assumes that either GEOG 3101 or 3201 is chosen in the major.
- ++ The courses listed for this semester constitute the professional education (student teaching) block. The student should not take any other courses during this semester.
- This program must include at least one course that focuses on a non-western society, nation or region or on the non-western world. A list of the courses which fulfill this requirement is available from the Department of History and Anthropology and is on file with the academic advisors.
- The Missouri General Education Assessment (MoGEA) is an exam required of all Teacher Education students. Students must pass all five 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.
- 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.

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

This guide is valid for the 2014 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 Freshman Seminar*

Hrs
 3
 3
 9
15
 1

Freshman Year - Spring Semester
 ENGL 1030 Composition II or CTE 3060 Technical 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
 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
 3
 4
16

Junior Year - Spring Semester
 SOC 3825 Race & Ethnic Relations
 SOWK 3605 Methods of Inquiry & Evaluation for Social Workers
 SOWK 3610 Social Work Practice: Basic Skills
 SOWK 4640 SW Practice: Intervention w/Communities & Orgs.
 Free Choice Electives#
Semester Total

Hrs
 3
 3
 3
 3
 4
16

Apply for Admission to Social Work Program

Senior Year - Fall Semester
 PSY 4440 Abnormal Psychology
 SOWK 4610 Special Topics in Social Work or
 SOWK 4620 Social Services and Policy with Older Adults
 SOWK 4630 SW Practice: Intervention with Families & Groups
 SOWK 4650 Social Policy & Economic Justice
 Free Choice Electives
Semester Total

Hrs
 3
 3
 3
 3
 3
15

Senior Year - Spring Semester
 SOWK 4660 Field Practicum
 SOWK 4661 Field Practicum Seminar
Semester Total

Hrs
 9
 3
12

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

- *AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- **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.
- #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.
- 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.
- 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)

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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 Technical Writing (GE)	3
SOC 1800 General Sociology (GE)	3	MATH 1300 Basic Statistics (GE)	3
Modern Language Requirement (GE)*	3	SOC Major Elective	3
General Education	6	Modern Language Requirement*	3
Semester Total	15	General Education	3
AE 1400 Freshman Seminar**	1	Semester Total	15

Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
SOC 2805 Introduction to Social Research#	3	SOC 2850 Institutions & Social Action or SOC Major Elective***	3
SOC 2845 Social Inequality or SOC Major Elective***	3	General Education	9
Modern Language Requirement*	3	Free Choice Electives or Minor Coursework+	3
General Education	6	Semester Total	15
Semester Total	15		

Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
SOC Major Elective (3000/4000 level)++	3	SOC Major Elective (3000/4000 level)++	3
General Education	3	Free Choice Electives or Minor Coursework+	12
Free Choice Electives or Minor Coursework+	9	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 Sociology Capstone Seminar (Fall only)	3
SOC 4890 Social Survey Research (Fall only)	3	Free Choice Electives*** (3000/4000 level)++	12
Free Choice Electives*** (3000/4000 level)++	9	Semester Total	15
Semester Total	15		

Sociology Major, B.A. Degree - 120 hours

- *Refer to the Bachelor’s Degree Requirements section in the Undergraduate Catalog for the B.A. Modern Language requirement. This plan is based on three modern language courses and thus, 45 hours of free choice electives.
- **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.
- 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.S. Degree (43-756)

This guide is valid for the 2014 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 Technical Writing (GE)	3
SOC 1800 General Sociology (GE)	3	MATH 1300 Basic Statistics (GE)	3
General Education	9	SOC Major Elective	3
Semester Total	15	General Education	6
AE 1400 Freshman Seminar*	1	Semester Total	15

Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
SOC 2805 Introduction to Social Research#	3	SOC 2850 Institutions & Social Action or SOC Major Elective**	3
SOC 2845 Social Inequality or SOC Major Elective**	3	General Education	6
General Education	9	Free Choice Electives or Minor Coursework***	6
Semester Total	15	Semester Total	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)	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 an 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.
- 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 2014 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

<i>ENGL 1020 Composition I (GE)</i>	
<i>MATH 1620 Contemporary Mathematics (GE)</i>	
<i>POLS 1510 American Government (GE)</i>	
<i>General Education Science with lab</i>	
General Education Managing Information	
Semester Total	
AE 1400 Freshman Seminar*	

Hrs
3
3
3
4
2-3
15-16
1

Freshman Year - Spring Semester

EDFL 2100 Foundations of Education	
FLDX 2150 Introductory Field Experience	
EDFL 2240 Educational Psychology	
EDSP 2100 Education of the Exceptional Child	
<i>ENGL 1030 Composition II or CTE 3060 Technical Writing (GE)</i>	
HIST 1350 or 1351 History of the United States (GE)	
Semester Total	

Hrs
2
1
3
3
3
3
15

Sophomore Year - Fall Semester

ART 3910 Art for Elementary School	
ECEL 1310 Physics for Teachers or ECEL 1320 Biology for Teachers	
ECEL 2310 Computer/Technology in Education	
EDSP 4140 Collaborating with Families	
General Education	
Semester Total	

Hrs
2
3
2
3
6
16

Sophomore Year - Spring Semester

CD 4402 Language Acq. for Children w/Devel. Disabilities	
EDFL 3210 Methods of Reading Instruction	
EDSP 4385 Introduction to Cross Categorical Special Education	
GEOG 2212 World Geography (GE)	
HED 3310 Methods in Elementary School Health	
General Education	
Semester Total	
<i>(Successfully complete MoGEA exam by end of this semester)</i>	

Hrs
2
3
3
3
2
3
16

Junior Year - Fall Semester

EDSP 4620 Evaluation of Ability & 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**	
Semester Total	

Hrs
3
2
3
3
3
14

Junior Year - Spring Semester

EDFL 4220 Analysis/Correction Reading Disabilities	
EDFL 4250 Practicum in Reading	
EDSP 4360 Behavior Management Techniques	
EDSP 4361 Practice in Behavior Management Techniques	
MATH 4890 Math for Special Education	
PSY 4230 Adolescent Psychology**	
General Education	
Semester Total	

Hrs
2
1
2
1
2
3
6
17

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	
HED 4330 First Aid & CPR	
General Education	
Semester Total	

Hrs
3
3
3
3
1
3
16

Senior Year - Spring Semester***

FLDX 4395 Student Teaching in Special Education I	
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.
- The Missouri General Education Assessment (MoGEA) is an exam required of all Teacher Education students. Students must pass all five 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.
- 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: Severely Developmentally Disabled Major, B.S. in Ed. Degree (41-02784)

This guide is valid for the 2014 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
<i>ENGL 1020 Composition I (GE)</i>	3	EDFL 2100 Foundations of Education	2
<i>MATH 1620 Contemporary Mathematics (GE)</i>	3	FLDX 2150 Introductory Field Experience	1
<i>POLS 1510 American Government (GE)</i>	3	EDFL 2240 Educational Psychology	3
<i>General Education Science with lab</i>	4	EDSP 2100 Education of the Exceptional Child	2
General Education Managing Information	2-3	<i>ENGL 1030 Composition II or CTE 3060 Technical Writing (GE)</i>	3
Semester Total	15-16	General Education	3
AE 1400 Freshman Seminar*	1	Semester Total	14

Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
CD 4402 Language Acquisition for Children w/Dev. Disabilities	2	ART 3910 Art for Elementary School	2
ECEL 1310 Physics for Teachers or ECEL 1320 Biology for Teachers	3	EDSP 4140 Collaborating with Families	3
ECEL 2310 Computer/Technology in Education	2	EDSP 4350 Augmentative & Alternative Comm. (spring only)	3
EDSP 4370 Screening, Diagnosing, & Prescribing Instruction	3	<i>HIST 1350 or 1351 History of the United States (GE)</i>	3
GEOG 2212 World Geography (GE)	3	PE 4340 Adaptive Physical Education	3
NUR 4060 Physical & Health of Medically Fragile Child	3	General Education	3
Semester Total	16	Semester Total	17

Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
EDSP 4310 Introduction to Students with Autism and SDD#	2	EDSP 4360 Behavior Management Techniques	2
EDSP 4330 Curr. & Methods for Teaching Students w/ A&SDD I#	3	EDSP 4361 Practice in Behavior Management Techniques	1
PSY 2220 Child Psychology**	3	EDSP 4450 Curr. & Methods for Teaching Students w/ A&DD II#	3
MATH 3890 Concepts & Methods of Teaching for Special Educ.	3	EDSP 4470 Percep. Motor Training Students w/Dis. (spr. only)	2
General Education	6	EDSP 4620 Evaluation of Ability & Achievement	3
Semester Total	17	MATH 4890 Math for Special Education	2
		General Education	3
		Semester Total	16

Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester+	Hrs
EDFL 3210 Methods of Reading Instruction	3	FLDX 4395 Student Teaching in Special Education I	8
EDSP 4700 IEP and the Law	3	FLDX 4468 Student Teaching II	4
HED 3310 Methods in Elementary School Health	2	Semester Total	12
HED 4330 First Aid and CPR	1		
PSY 4230 Psychology of Adolescence**	3		
General Education	3		
Semester Total	15		

Special Education: Severely Developmentally Disabled Major, B.S. in Ed. - 122 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 only offered every other year. Please contact your faculty advisor to make sure you are planning to take the courses in the appropriate semester to stay on track. EDSP 4310 and 4330 are fall semester only, and EDSP 4450 is spring semester only.
- +The courses listed for this semester constitute the professional education (student teaching) block. The student should not take any other courses during this semester.
- The Missouri General Education Assessment (MoGEA) is an exam required of all Teacher Education students. Students must pass all five 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.
- 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 Major, B.S. in Ed. Degree (41-03784)

This guide is valid for the 2014 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.

<p>Freshman Year - Fall Semester ENGL 1020 Composition I (GE) HIST 1350 or 1351 History of the United States (GE) MATH 1620 Contemporary Mathematics (GE) General Education Science with lab General Education Semester Total</p>	<p>Hrs 3 3 3 4 2-3 15-16</p>	<p>Freshman Year - Spring Semester ECEL 1310 Physics for Teachers or ECEL 1320 Biology for Teachers EDFL 2240 Educational Psychology EDFL 2100 Foundation of Education FLDX 2150 Introductory Field Experience EDSP 2100 Education of the Exceptional Child ENGL 1030 Composition II or CTE 3060 Technical Writing (GE) GEOG 2212 World Geography (GE) Semester Total</p>	<p>Hrs 3 3 2 1 2 3 3 17</p>
<p>Sophomore Year - Fall Semester CFD 1220 Child Development CFD 1230 Observation of Children ECEL 2310 Computer/Technology in Education EDSP 4320 Intro. to Early Childhood Special Educ. (fall only) General Education Semester Total</p>	<p>Hrs 3 2 2 3 6 16</p>	<p>Sophomore Year - Spring Semester D&N 2310 Early Childhood Nutrition & Health EDSP 3150 Community & Family Resources EDSP 3151 Community & Family Resources Practicum EDSP 4140 Collaborating with Families POLS 1510 American Government (GE) General Education Semester Total <i>(Successfully complete MoGEA exam by end of this semester)</i></p>	<p>Hrs 2 2 1 3 3 6 17</p>
<p>Junior Year - Fall Semester CD 2000 The Bases of Speech & Language EDSP 4370 Screening, Diagnosing, & Prescribing Instruction EDSP 4620 Evaluation of Ability & Achievement HED 4330 First Aid & CPR MATH 3890 Concepts & Methods for Teaching Special Ed. General Education Semester Total</p>	<p>Hrs 2 3 3 1 3 3 15</p>	<p>Junior Year - Spring Semester EDFL 3210 Methods of Reading Instruction EDSP 4350 Augmentative & Altern. Comm. (spring only) EDSP 4360 Behavior Management Techniques EDSP 4361 Practicum in Behavior Management Techniques EDSP 4440 Curriculum & Methods ECSE (spring only) EDSP 4470 Perceptual Motor Training for Students w/Dis. (spring only) Semester Total</p>	<p>Hrs 3 3 2 1 3 2 14</p>
<p>Senior Year - Fall Semester ART 3910 Art for Elementary School ECEL 3220 The Teaching of Language Arts ECEL 3468 Community, School & Family Connections EDFL 3410 Children's Literature EDSP 4700 IEP and the Law General Education Semester Total</p>	<p>Hrs 2 3 3 2 3 3 16</p>	<p>Senior Year - Spring Semester* FLDX 4395 Student Teaching in Special Education I FLDX 4396 Student Teaching in Special Education II Semester Total</p>	<p>Hrs 6 6 12</p>

Special Education: Early Childhood Major, B.S. in Ed. Degree – 122 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.
- 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 five 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.
- 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 2014 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 Technical 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
 3
 4
16

Sophomore Year - Fall Semester
 COMM 2330 Communication in Small Groups/Teams
 COMM 2340 Argumentation & Debate (fall only)
 EDFL 2100 Foundations of Education
 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
 3
 2
 1
 3
 2
 3
17

Sophomore Year - Spring Semester
 COMM 1000 Public Speaking
 COMM 2100 Introduction to Communication Theory
 THEA 3700 Directing
 Minor Coursework
 General Education Managing Information
Semester Total
(Successfully complete MoGEA exam by end of this semester)

Hrs
 3
 3
 3
 6
 2-3
17-18

Junior Year - Fall Semester
 COMM 3000 Film Appreciation (GE)
 COMM 3325 Nonverbal Communication (fall only)
 THEA 4400 Literature & History of the Theatre I
 Minor Coursework
 General Education
Semester Total

Hrs
 3
 2
 3
 3
 6
17

Junior Year - Spring Semester
 COMM 1200 Introduction to Mass Communication
 EDFL 4300 Educational Measurement & Evaluation
 PSY 4230 Psychology of Adolescence
 THEA 3630 Studio Theatre I
 WGS 2000 Race, Class, and Gender (GE)
 Minor Coursework
 General Education
Semester Total

Hrs
 3
 2
 3
 1
 3
 3
 3
18

Senior Year - Fall Semester
 EDFL 3500 Secondary Teaching & Behavior Management
 FLDX 3550 Practicum in Secondary Instruction
 EDFL 4210 The Teaching of Reading in the Secondary School |
 THEA 4730 Studio Theatre II
 THEA 4984 Methods of Teaching Speech & Theatre
 Minor Coursework
Semester Total

Hrs
 3
 1
 2
 1
 2
 6
15

Senior Year - Spring Semester*
 FLDX 4595 Student Teaching Secondary I
 FLDX 4468 Student Teaching Secondary II
 THEA 4920 Secondary Field Experience II
 THEA 4930 Co-Curricular Practicum
Semester Total

Hrs
 5
 6
 1
 2
14

Speech Communication and Theatre Major, B.S. in Ed. Degree - 129 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.
- The above degree plan is based on an 18-hour minor.
- The Missouri General Education Assessment (MoGEA) is an exam required of all Teacher Education students. Students must pass all five 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.
- 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 2014 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 1003 or 1004 Introduction to the Sciences: Ecology	3-4	CD 2301 American Phonetics	3
CD 1000 Introduction to Communication Disorders	3	ENGL 1030 Composition II or CTE 3060 Technical Writing (GE)	3
CD 1800 Observation of Clinical Practicum in CD	1	General Education	9
ENGL 1020 Composition I (GE)	3	Semester Total	15
General Education	5		
Semester Total	15-16		
AE 1400 Freshman Seminar (CD Section)*	1		
Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
CD 3301 Anatomy & Physiology of Speech & Swallowing	2	CD 3304 Speech Science	3
COMM 1000 Public Speaking (GE)	3	General Education	6
PSY 1100 General Psychology (GE)	3	Free Choice Elective**	6
General Education	6-7	Semester Total	15
Semester Total	14-15		
Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
CD 1401 American Sign Language I (GE)	3	AT 1625 CPR/AED for Health Care Professionals	1
CD 4401 Language Development	2	CD 3503 Principles of Clinical Management	3
CD 4501 Basic Neuroscience for Speech-Language Path.	2	CD 4505 School-age Issues in Language & Literacy	3
CD 4504 Introduction to Articulation & Phonological Disorders	3	CD 4706 Hearing Measurement	3
CD 4701 Introduction to Audiology	3	Free Choice Electives**	6
PSY 3220 Lifespan Development	3	Semester Total	16
Semester Total	16		
Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
CD 4102 Couns. Persons w/Comm. Disorders & Their Families	2	CD 4512 Best Practices in Early Childhood Intervention	3
CD 4103 Intro. to Evidence Based Practice in Comm. Disorders	2	CD 4803 Undergraduate Clinical Practicum II	1
CD 4510 Multicultural Issues in Communication Disorders	2	PSY 4520 Statistics for the Behavioral Sciences	3
CD 4708 Aural Rehabilitation	3	Free Choice Electives**	8
CD 4802 Undergraduate Clinical Practicum I	1	Semester Total	15
EDSP 4700 IEP and the Law	3		
Semester Total	13		

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

- *AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- **The number of free choice electives required will depend on selections made in the major and general education.
- Students must contact the Undergraduate Advisor in the 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 2014 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 (apply to major)	Hrs
CIS 1600 Business Information Management (GE)	3	PE 1206 Fitness for a Global Community (GE)	3
General Education	12	General Education	12
Semester Total	15	Semester Total	15
AE 1400 Freshman Seminar*	1		

Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
PE 2472 Communicating Ideas on Sport (GE)	3	ECON 1010 Principles of Macroeconomics (GE)	3
SM 3100 Introduction to Sport Management	3	PE 4740 Legal Liability in Fitness/Wellness, PE, Rec., & Sprt. Set.	2
General Education	7	Free Choice Electives	10
Free Choice Elective	2	Semester Total	15
Semester Total	15		

Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
MGT 3315 Management of Organizations	3	ECON 1011 Principles of Microeconomics	3
MKT 3405 Marketing Policy	3	SM 4200 Applied Sport Marketing	3
SM 3300 Leisure, Sport, and Tourism	3	SM 4300 Recreational Sports Management	3
SM 4700 Sport Facility Management	3	Free Choice Elective	3
Free Choice Elective	3	Semester Total	12
Semester Total	15		

Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
ECON 4054 Sport Economics	3	SM 4220 Sport Sponsorship and Retention	3
SM 4210 Sport and Media	3	SM 4500 Sport Leadership	3
SM 4400 Sport Communication	3	SM 4720 Managing Sporting Events	3
SM 4900 Senior Seminar in Sport Management	3	Free Choice Elective	3
Free Choice Elective	3	Semester Total	12
Semester Total	15		

Senior Year - Summer Semester	Hrs
SM 4980 Internship	6
Semester Total	6

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.
- 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)

This guide is valid for the 2014 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 2412 Ceramics I	3
ENGL 1020 Composition I (GE)	3	ENGL 1030 Composition II or CTE 3060 Technical 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)	3	ART 1825 Art History Survey II (spring)	3
ART 2335 3-D Design	3	ART 2420 Sculpture I	3
ART 3209 Figure Construction	3	ART 2710 Printmaking I	3
ART 3412 Ceramics II	3	ART 3412 Ceramics II	3
General Education	3	General Education	3
Semester Total	15	Semester Total	15

Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
ART 2511 Painting I	3	ART 4412 Ceramics III	3
ART 3110 Drawing III	3	ART 4850 20th Century Art & Architecture (fall) or ART 4860 Contemporary Art & Design (spring)	3
ART 3412 Ceramics II	3	ART Electives*	6
ART Elective*	3	General Education	3
General Education	6	Semester Total	15
Semester Total	18		

Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
ART 4412 Ceramics III	3	ART 4412 Ceramics III	3
ART Electives*	6	ART 4020 Studio Seminar	3
General Education	6	ART 4221 Art Theory and Criticism	3
Semester Total	15	General Education	6
		Semester Total	15

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

- *Students must choose 15 hours of ART major 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.

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

This guide is valid for the 2014 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	3
ART 1315 2-D Design	3
ART 1800 Ideas & the Visual Arts (GE)	3
ENGL 1020 Composition I (GE)	3
General Education	3
Semester Total	15

Freshman Year - Spring Semester

ART 1120 Drawing II	3
ART 1325 Color and Design	3
ART Elective*	3
ENGL 1030 Composition II or CTE 3060 Technical Writing (GE)	3
General Education	3
Semester Total	15

Sophomore Year - Fall Semester

ART 1815 Art History Survey I (fall only)	3
ART 2335 3-D Design	3
ART 2610 Introduction to Graphic Design & Illustration	3
ART 2620 Typography	3
General Education	3
Semester Total	15

Sophomore Year - Spring Semester

ART 1825 Art History Survey II	3
ART 2511 Painting I	3
ART 2710 Printmaking I	3
ART 3209 Figure Construction	3
General Education	6
Semester Total	18

Junior Year - Fall Semester

ART 2420 Sculpture I	3
ART 3110 Drawing III	3
ART 3625 Illustration Techniques	3
ART 4850 20th Century Art & Arch. (fall only) or ART 4860 Contemporary Art & Design (spring only)	3
General Education	3
Semester Total	15

Junior Year - Spring Semester

ART 2412 Ceramics I	3
ART 3635 Illustration Concepts	3
ART Elective*	3
General Education	6
Semester Total	15

Senior Year - Fall Semester

ART 4625 Advanced Illustration I	3
Art Electives*	6
General Education	6
Semester Total	15

Senior Year - Spring Semester

ART 4020 Studio Seminar	3
ART 4635 Advanced Illustration II	3
ART Elective*	3
ART 4221 Art Theory and Criticism	3
General Education	3
Semester Total	15

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

- *Students must choose 15 hours of ART 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.

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

This guide is valid for the 2014 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	3
ART 1315 2-D Design	3
ART 1800 Ideas & the Visual Arts (GE)	3
ENGL 1020 Composition I (GE)	3
General Education	3
Semester Total	15

Freshman Year - Spring Semester

ART 1120 Drawing II	3
ART 1325 Color and Design	3
ART 2511 Painting I	3
ENGL 1030 Composition II or CTE 3060 Technical Writing (GE)	3
General Education	3
Semester Total	15

Sophomore Year - Fall Semester

ART 1815 Art History Survey I (fall)	3
ART 2335 3-D Design	3
ART 3209 Figure Construction	3
ART 3511 or 3513 (Painting II or Painting II Plein Air)	3
General Education	3
Semester Total	15

Sophomore Year - Spring Semester

ART 1825 Art History Survey II (spring)	3
ART 2412 Ceramics I	3
ART 2710 Printmaking I	3
ART 3511 or 3515 (Painting II or Painting II Figure)	3
General Education	3
Semester Total	15

Junior Year - Fall Semester

ART 2420 Sculpture I	3
ART 3110 Drawing III	3
ART 3511 or 3513 (Painting II or Painting II Plein Air)	3
ART Elective**	3
General Education	6
Semester Total	18

Junior Year - Spring Semester

ART 3510 Watercolor	3
ART 4511 or 4515 (Painting III or Painting III Figure)	3
ART 4850 20th Century Art & Architecture (fall) or ART 4860 Contemporary Art & Design (spring)	3
ART Elective**	3
General Education	3
Semester Total	15

Senior Year - Fall Semester

ART 4511 or 4513 (Painting III, Painting III Plein Air)	3
ART Electives**	6
General Education	6
Semester Total	15

Senior Year - Spring Semester

ART 4511 or 4515 (Painting III or Painting III Figure)	3
ART Elective**	3
ART 4221 Art Theory and Criticism	3
General Education	6
Semester Total	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.
- 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)

This guide is valid for the 2014 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 2710 Printmaking I	3
ENGL 1020 Composition I (GE)	3	ENGL 1030 Composition II or CTE 3060 Technical 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)	3	ART 1825 Art History Survey II (spring)	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	Hrs	Junior Year - Spring Semester	Hrs
ART 2420 Sculpture I	3	ART 3720 Printmaking III	3
ART 3110 Drawing III	3	ART 4850 20th Century Art & Architecture (fall) or ART 4860 Contemporary Art & Design (spring)	3
ART 3710 Printmaking II	3	ART Electives*	6
ART Elective*	3	General Education	3
General Education	6	Semester Total	15
Semester Total	18		

Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
ART 3720 Printmaking III	3	ART 3720 Printmaking III	3
ART Electives*	6	ART 4020 Studio Seminar	3
General Education	6	ART 4221 Art Theory and Criticism	3
Semester Total	15	General Education	6
		Semester Total	15

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

- *Students must choose 15 hours of ART major 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.

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

This guide is valid for the 2014 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 2420 Sculpture I	3
ENGL 1020 Composition I (GE)	3	ENGL 1030 Composition II or CTE 3060 Technical 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)	3	ART 1825 Art History Survey II (spring)	3
ART 2335 3-D Design	3	ART 2412 Ceramics I	3
ART 3209 Figure Construction	3	ART 2511 Painting I	3
ART 3420 Sculpture II	3	ART 3440 Sculpture III	3
General Education	3	General Education	3
Semester Total	15	Semester Total	15

Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
ART 2710 Printmaking I	3	ART 4420 Sculpture IV	3
ART 3110 Drawing III	3	ART 4850 20th Century Art & Architecture (fall) or ART 4860 Contemporary Art & Design (spring)	3
ART 4420 Sculpture IV	3	ART Electives*	6
ART Elective*	3	General Education	3
General Education	6	Semester Total	15
Semester Total	18		

Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
ART 4420 Sculpture IV	3	ART 4020 Studio Seminar	3
ART Electives*	6	ART 4420 Sculpture IV	3
General Education	6	ART 4221 Art Theory and Criticism	3
Semester Total	15	General Education	6
		Semester Total	15

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

- *Students must choose 15 hours of ART 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.

Systems Engineering Technology Major, B.S. Degree (43-879)

This guide is valid for the 2014 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
BTE 1210 Essentials of Managing Information (GE)	2	CIS 1600 Business Information Management	3
ENGL 1020 Composition I (GE)	3	CTE 3060 Technical Writing (GE)	3
MATH 1111 College Algebra (GE)	3	General Education	9
General Education	6	Semester Total	15
Semester Total	14		
AE 1400 Freshman Seminar*	1		
Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
CIS 2605 Programming with Visual C#	3	CIS 2665 Prin. of Data Communications & Local Area Network	3
COMM 1000 Public Speaking (GE)	3	NET 2060 Switching Basics and Intermediate Routing**	3
NET 1060 Introduction to Networking Basics**	3	NET 2061 WAN Technologies**	3
NET 1061 Routers & Routing Basics**	3	General Education	6
General Education Science with Laboratory	4	Semester Total	15
Semester Total	16		
Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
CIS 3665 Data Communication Technologies**	3	CIS 3650 Database Management Systems	3
NET 4060 Advanced Network Routing**	3	CIS 4685 Network Planning, Design and Security**	3
General Education	3	NET 3068 Network Security I	4
Free Choice Electives	6	Free Choice Electives	5
Semester Total	15	Semester Total	15
Junior Year - Summer Semester	Hrs		
SOT 3022 Internship in Technology	3		
Semester Total	3		
Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
CIS 4665 Data Communication & Distributed Data Processing	3	CIS 4610 Special Projects	3
CIS 4680 Data Resource Management	3	NET 4063 Network Support**	3
NET 4062 Advanced Switching**	3	Free Choice Electives	6
Free Choice Electives	6	Semester Total	12
Semester Total	15		

**Systems Engineering 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.
- **This class is only offered during the semester indicated.
- 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 2014 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
 CHAOS I (STA Course) (CSIS 111 at MCC/NET 1058 at UCM)
 COLL 100 First Year Seminar (N/A)
 CSIS 110 Technology and Information Mgmt. (BTE 1210) (GE)
 CSIS 115 Computer Concepts and Applications (CIS 1600)
 MATH 110 Intermediate Algebra (MATH 1101) or
 120 College Algebra (MATH 1111) (GE - MATH 120 only)
Semester Total

Hrs
 3
 1
 3
 3
 3
13

High School Junior Year/MCC - Fall Semester
 CHAOS II (STA Course) (CSIS 151 at MCC)
 IT Essentials (STA Course) (CSIS 161 & 174 at MCC)+
 MATH 120 College Algebra (MATH 1111) or higher++
Semester Total

Hrs
 3
 6
 3
12

High School Junior Year/MCC - Spring Semester
 Networking Essentials (STA Course) (CSIS 161 & 174 at MCC/
 NET 2060 & 2061 at UCM) ^
Semester Total

Hrs
 6
6

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 152 Linux Operating System (CS 2500)
 CSIS 172 LAN Windows Server (N/A)
 ENGL 101 Composition and Reading I (ENGL 1020) (GE)
 General Education Science with Laboratory
 (Non-credit Internship)
Semester Total

Hrs
 3
 3
 3
 4
 0
13

High School Senior Year/MCC - Spring Semester
 CSIS 143 Database Design and Management (CIS 3650)
 ENGL 215 Technical Writing (CTE 3060) (GE)
 SPDR 102 Fundamentals of Speech (COMM 1000) (GE)+++
 (Non-credit Internship)
Semester Total
 (graduate from high school this semester)

Hrs
 3
 3
 3
 0
9

MCC/UCM Junior Year - Summer Semester
 BSAD 127 Management Internship I (N/A)
 General Education History*
 (Non-credit Internship)
Semester Total

Hrs
 3
 3
 0
6

MCC/UCM Junior Year - Fall Semester
 CIS 3665 Data Communication Technologies**
 CSIS 123 Programming Fundamentals (CS 1100)***
 CSIS 290A Field Competencies and Employment Strat. (N/A)
 General Education
 (Non-credit Internship)
Semester Total
 (graduate from MCC with A.A.S. degree this semester)

Hrs
 3
 3
 3
 3
 0
12

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
 3
 4
 6
 0
16

UCM Senior Year - Summer Semester
 CIS 4610 Special Projects
 SOT 3022 Internship in Technology
Semester Total

Hrs
 3
 3
6

UCM Senior Year - Fall Semester
 CIS 4665 Data Communication & Distributed Data Processing
 NET 4060 Advanced Network Routing**
 General Education
 (Non-credit Internship)
Semester Total

Hrs
 3
 3
 6
 0
12

UCM Senior Year - Spring Semester
 NET 4062 Advanced Switching**
 NET 4063 Network Support**
 General Education (only 3 hours will be needed if 6 hours of
 gen ed MATH is completed in the first year)
 (Non-credit Internship)
Semester Total

Hrs
 3
 3
 6
 0
9-12

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.
- ^The 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.

Theatre Major, B.A. Degree (42-364)

This guide is valid for the 2014 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 Technical Writing (GE)	3
THEA 1400 Script Analysis	3	THEA 1100 Oral Interpretation (GE)	3
THEA 1500 Acting	3	THEA 1600 Stagecraft	3
Modern Language Requirement (GE)*	3	Modern Language Requirement*	3
General Education	3	General Education	3
Semester Total	15	Semester Total	15
AE 1400 Freshman Seminar**	1		
Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
THEA 1510 Stage Movement	3	THEA 1520 Stage Voice	3
THEA 2610 Design Fundamentals	3	General Education	12
Modern Language Requirement*	3	Semester Total	15
General Education	6		
Semester Total	15		
Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
THEA 3600 Scene Design, THEA 3610 Costume Design, or THEA 3620 Lighting Design	3	Minor Coursework	6
THEA 3700 Directing	3	General Education	6
Minor Coursework	6	Free Choice Electives	3
Free Choice Elective	3	Semester Total	15
Semester Total	15		
Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
THEA 3630 Studio Theatre I	1	THEA 4420 Literature & History of the Theatre II	3
THEA 4400 Literature & History of the Theatre I	3	THEA 4730 Studio Theatre II	1
Theatre Elective	3	Minor Coursework	6
Minor Coursework	6	Free Choice Electives	5
Free Choice Electives	2	Semester Total	15
Semester Total	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.
- This plan is based on a 24-hour minor.
- This major does not build in the minimum number (30) of upper-level credit hours required for graduation. Be sure to include upper-level choices (3000/4000) in your major electives, minor, general education, and/or free choice electives.
- To satisfy the General Education Assessment (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 (47-366)

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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 Technical Writing (GE)	3
THEA 1400 Script Analysis	3	THEA 1520 Stage Voice	3
THEA 1500 Acting	3	THEA 1610 Stage Makeup	3
THEA 1600 Stagecraft	3	General Education	6
General Education	3	Semester Total	15
Semester Total	15		
AE 1400 Freshman Seminar*	1		
Sophomore Year - Fall Semester	Hrs	Sophomore Year - Spring Semester	Hrs
THEA 1510 Stage Movement	3	DANC 1110 Modern Dance I or 1120 Ballet Dance I	1
THEA 2610 Design Fundamentals	3	DANC 1140 Jazz Dance I	1
Design/Technology Elective	3	THEA 3700 Directing	3
General Education	6	General Education	9
Semester Total	15	Semester Total	14
Junior Year - Fall Semester	Hrs	Junior Year - Spring Semester	Hrs
THEA 3500 Advanced Scene Study	3	THEA 4300 Professional Practices	1
THEA 4310 Principles of Theatre Management	3	THEA 4420 Literature & History of the Theatre II	3
THEA 4300 Professional Practices	1	THEA 4500 Advanced Acting	3
THEA 4400 Literature & History of the Theatre I	3	Design/Technology Elective	3
General Education	6	General Education	3
Semester Total	16	Free Choice Elective	2
		Semester Total	15
Senior Year - Fall Semester	Hrs	Senior Year - Spring Semester	Hrs
THEA 4300 Professional Practices	1	THEA 4710 Advanced Directing	3
THEA 4510 Period Acting Styles	3	THEA 4730 Studio Theatre II	1
Design/Technology Elective	3	THEA 4910 Senior Showcase	1
General Education	3	Free Choice Electives	10
Free Choice Electives	5	Semester Total	15
Semester Total	15		

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

- * AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- To satisfy the General Education Assessment (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.