

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

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**Freshman Year** - Fall Semester

CIS 1600 Business Information Management (GE)\*

ECON 1010 Principles of Macroeconomics (GE)\*

ENGL 1020 u

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

- \*Accountancy majors must complete eight preadmission courses with a grade of C or higher and obtain a 2.65 cumulative GPA and a 2.65 in these specific courses for admission to the degree program. These courses are recommended for completion during the freshman and sophomore years.
- \*\*AE 1400 and BADM 1400 (1 hr.) are free choice electives and are highly recommended for academic success. If AE 1400 or BADM 1400 is chosen, 1 less hour of free choice electives will be needed.
- \*\*\*Apply for integrated 150-hour BSBA/MA program, if interested, while enrolled in ACCT 3110 .
- #Grade of "C" or higher required for sophomore and junior level Accounting courses.
- ##To satisfy accreditation standards students must earn 90 of the required 123 hours in courses with non-ACCT prefixes. This requires that all business and free electives be earned in courses with prefixes other than ACCT. Accounting students that wish to use internship credit to fulfill elective hours may do so by enrolling in a MGT or FIN internship course.
- <sup>10</sup>This course fulfills Competency 10 - Integration in the General Education program. The hours count in the major, not in general education.
- Some courses in this major require a certain cumulative gpa and/or a minimum grade of C in all prerequisite courses, see the most current Undergraduate Catalog for details.
- A 2.65 cumulative GPA is required for graduation in this major.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA . . . they earn 45 credit hours but . . . 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](mailto:testingservices@ucmo.edu)) for more information.

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

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

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**Freshman Year** - Fall Semester

ACST 1300 Basic Statistics (GE)

CS 1100 Computer Programming I

ENGL 1020 Composition I (GE)

MATH 1151 Calculus &amp; Analytic Geometry I (GE)

**Semester Total****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.
- <sup>10</sup>This course fulfills Competency 10 - Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA . . . they earn 45 credit hours but 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](mailto:testingservices@ucmo.edu)) for more information.

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

**Freshman Year - Fall Semester**  
 AGRI 1100 Introduction to Agriculture 1  
 AGRI 1420 Animal Husbandry 3  
 COMM 1000 Public Speaking (GE) 3  
 ECON 1010 Principles of Macroeconomics (GE) 3  
 ENGL 1020 Composition I (GE) 3  
 LIS 1600 University Library and Research Skills (GE) 2  
**Semester Total 15**

**Sophomore Year - Fall Semester**  
 AGRI 2330 Introduction to Soil Science (Lab) 3  
 General Education 9  
**Semester Total 12**

**Junior Year - Fall Semester**  
 AGRI 3110 Agri-Business Management 3  
 AGRI 3140 Agricultural Analysis and Statistics 3  
 AGRI 3410 Animal Breeding or  
     AGRI 4310 Plant Breeding & Genetics 3  
 MGT 3325 Business Communications 3  
 MKT 3430 Professional Sales 3  
**Semester Total 15**

**Senior Year - Fall Semester**  
 AGRI 3120 Distrib. and Marketing of Agriculture Products 3  
 AGRI 3610 Agriculture Pest Management 3  
 AGRI 3810 Internship in Agriculture 3  
 BLAVV 2720 Legal Environment of Business 3  
 Free Choice Electives 3  
**Semester Total 15**

**Freshman Year - Spring Semester**  
 AGRI 1600 Introduction to Horticulture Science (Lab) (GE) 4  
 AGRI 2425 Livestock Evaluation (Lab) 3  
 CHEM 1104 Introduction to the Sciences: Chemistry (Lab) (GE) 4  
 ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) 3  
 MATH 1111 College Algebra (GE) 3  
**Semester Total 17**

**Sophomore Year - Spring Semester**  
 ACCT 2101 Principles of Financial Accounting or  
     ACCT 2100 Survey of Accounting 3  
 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 - Spring Semester**  
 AGRI 4140 Agricultural Policy 3  
 AGRI 4300 Soil Fertility & Fertilizers 3  
 Free Choice Electives 8  
**Semester Total 14**

**Senior Year - Spring Semester**  
 AGRI 4101 Agricultural Capstone Experience<sup>10</sup> 3  
 AGRI 4110 Agricultural Futures Trading 3  
 AGRI 4120 International Agriculture 3  
 AGRI 4150 Natural Resources Economics 3  
 Free Choice Electives 3  
**Semester Total 15**

**Freshman Year** - Fall Semester

AGRI 1100 Introduction to Agriculture

AGRI 1420 Animal Husbandry

COMM 1000 Public Speaking (GE)

ECON 1010 Principles of Macroeconomics (GE)

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

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<b>Freshman Year - Fall Semester</b>	<b>Hrs</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs</b>
AGRI 1100 Introduction to Agriculture	1	AGRI 1600 Introduction to Horticulture Science (Lab) (GE)	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 Tech. Writing (GE)	3
COMM 1000 Public Speaking (GE)	3	MATH 1111 College Algebra (GE)	3
ENGL 1020 Composition I (GE)	3	General Education	3
<b>Semester Total</b>	<b>14</b>	<b>Semester Total</b>	<b>16</b>
<b>Sophomore Year - Fall Semester</b>	<b>Hrs</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs</b>
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
<b>Semester Total</b>	<b>14</b>	<b>Semester Total</b>	<b>14</b>
<b>Junior Year - Fall Semester</b>	<b>Hrs</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs</b>
AGRI 3110 Agri-Business Management	3	AGRI 2331 Soils	3
AGRI 4320 Plant Diseases	3	AGRI 3210 Soil & Water Management	3
AGRI 3610 Agriculture Pest Management (Lab)	3	AGRI 4300 Soil Fertility & Fertilizers	3
GEOG 4220 Geographic Information Systems I	3	Free Choice Electives	7
Free Choice Electives	3	<b>Semester Total</b>	<b>16</b>
<b>Semester Total</b>	<b>15</b>		
<b>Senior Year - Fall Semester</b>	<b>Hrs</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs</b>
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 <sup>10</sup>	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
<b>Semester Total</b>	<b>16</b>	<b>Semester Total</b>	<b>15</b>

**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.
- <sup>10</sup>This course fulfills Competency 10 - Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA . . . they earn 45 credit hours but . . . 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](mailto:testingservices@ucmo.edu)) for more information.

<b>Freshman Year - Fall Semester</b>	<b>Hrs</b>	<b>Freshman</b>
AGRI 1100 Introduction to Agriculture	1	
AGRI 1420 Animal Husbandry	3	
CHEM 1104 Introduction to the Sciences: Chemistry (Lab) (GE)	4	
ENGL 1020 Composition I (GE)	3	
LIS 1600 University Library and Research Skills (GE)	2	
General Education	3	
<b>Semester Total</b>	<b>16</b>	

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

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<b>Freshman Year - Fall Semester</b>	<b>Hrs</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs</b>
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 Tech. 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
<b>Semester Total</b>	<b>15</b>	General Education	3
AE 1400 University Foundations*	1	<b>Semester Total</b>	<b>18</b>

<b>Sophomore Year - Fall Semester</b>	<b>Hrs</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs</b>
ART 2412 Ceramics I	3	ART 1825 Art History Survey II	3
EDFL 2100 Introduction to the Teaching Profession	3	ART 1835 Global Arts & Culture (GE)	3
FLDX 2150 Introductory Field Experience	1	ART 2420 Sculpture I	3
EDFL 2240 Educational Psychology	3	ART 2710 Printmaking I	3
EDSP 2100 Education of the Exceptional Child	3	General Education Science w/lab	4
POLS 1510 American Government (GE)	3	General Education (Managing Information)	2
<b>Semester Total</b>	<b>16</b>	<b>Semester Total</b>	<b>18</b>
		<i>(Successfully complete MoGEA exam by end of this semester)</i>	

<b>Junior Year - Fall Semester</b>	<b>Hrs</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs</b>
ART 2511 Painting I	3	ART 3209 Figure Construction	3
ART 3314 Fibers	3	ART 3915 Methods of Tchng Art I: Media & Curr. (sprg only)# 2	2
ART 3911 Art Education Foundations & Literacy (fall only)	2	ART 4850 20th Century Art & Architecture (fall only) or	3
EDFL 4210 Introduction to Content Area Literacy	2	ART 4860 Contemporary Art & Design (spring only)	3
PHOT 1203 Introduction to Photography	2	EDFL 2250 Introduction to English Language Learners and	2
General Education	3	Culturally Responsive Pedagogy	2
<b>Semester Total</b>	<b>16</b>	FLDX 3000 Field Experience in the Content Area#	1
		PSY 4230 Psychology of Adolescence (GE)	3
		Upper Level Studio Concentration	3
		<b>Semester Total</b>	<b>17</b>

<b>Senior Year - Fall Semester</b>	<b>Hrs</b>	<b>Senior Year - Spring Semester**</b>	<b>Hrs</b>
ART 4221 Art Theory and Criticism	3	ART 4920 Methods of Teaching Art III: Seminar for Student	3
ART 4915 Methods of Tchng Art II: Mgmt. & Assess. (fall only)	3	Teaching <sup>10</sup>	3
EDFL 4970 Secondary Teaching & Behavior Management	2	FLDX 4468 Student Teaching Secondary II <sup>10</sup>	4
FLDX 4970 Field Experience II in the Content Area	1	FLDX 4495 Student Teaching Elementary I <sup>10</sup>	5
Upper Level Studio Concentration	3	<b>Semester Total</b>	<b>12</b>
General Education	3		
<b>Semester Total</b>	<b>15</b>		

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

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

- \*AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective, however, this program does not require free choice electives.
- \*\*The courses listed for this semester constitute the professional education (student teaching) block. The student should not take any other courses during this semester.
- #These courses must be taken concurrently.
- <sup>10</sup>This course fulfills Competency 10 - Integration in the General Education program. The hours count in the major, not in general education.
- The Missouri General Education Assessment (MoGEA) is an exam required of all Teacher Education students. Students must pass all areas of the MoGEA for admission to the Teacher Education Program. Students should take and successfully complete the MoGEA before completion of their sophomore year (60 earned hours). See your academic advisor to discuss the classes needed to prepare for the exam.
- Teacher Education candidates must take the appropriate Missouri Content Assessment (MoCA) for their certification area before they can student teach, and must pass it in order to be recommended for certification. Information and registration is available on the MEGA website: <http://www.mo.nesinc.com/>.
- See [www.ucmo.edu/cert](http://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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<b>Freshman Year - Fall Semester</b>	<b>Hrs</b>
AT 1610 Introduction to Athletic Training	2
AT 1611 Introduction to Athletic Training Lab I	1
AT 1625 CPR/First Aid/AED for Health Care Professional	1
CHEM 1104 Introduction to the Sciences: Chemistry (GE)	4
ENGL 1020 Composition I (GE)	3
MATH 1111 College Algebra (GE)**	3
<b>Semester Total</b>	<b>14</b>
AE 1400 University Foundations*	1

<b>Freshman Year - Spring Semester (apply to major)</b>	<b>Hrs</b>
AT 1630 Foundations of Athletic Training	2
AT 1631 Foundations of Athletic Training Lab II	1
AT 1640 Medical Terminology	1
AT 1650 Responding to Emergencies for the Profess. Rescuer	3
BIOL 3401 Human Anatomy**	3
US 1600 University Library and Research Skills (GE)	2
PE 1800 Functional Anatomy**	3
<b>Semester Total</b>	<b>15</b>

<b>Sophomore Year - Fall Semester</b>	<b>Hrs</b>
AT 2610 Orthopedic Assessment: Lower Extremity	2
AT 2611 Orthopedic Assessment: Lower Extremity Lab III	1
AT 2640 Introduction to Therapeutic Rehabilitation	2
BIOL 3402 Human Physiology	5
HED 1100 Personal Health (GE)	3
PE 2850 Foundations of Exercise Physiology**	3
<b>Semester Total</b>	<b>16</b>

<b>Sophomore Year - Spring Semester</b>	<b>Hrs</b>
AT 2620 Orthopedic Assessment: Upper Extremity	2
AT 2621 Orthopedic Assessment: Upper Extremity Lab IV	1
AT 2630 Therapeutic Modalities	2
AT 2631 Therapeutic Modalities Lab	1
PE 2472 Communicating Ideas on Sport (GE)	3
PE 2800 Biomechanics	3
PSY 1100 General Psychology (GE)	3
<b>Semester Total</b>	<b>15</b>

<b>Summer Semester (during even numbered years only)</b>	<b>Hrs</b>
PE 4340 Adapted Physical Education	3
<b>Semester Total</b>	<b>3</b>

<b>Junior Year - Fall Semester</b>
AT 3620 Clinical Athletic Training Lab V
AT 3630 Therapeutic Rehabilitation
AT 3631 Therapeutic Rehabilitation Lab
AT 3650 Sport & Exercise Pharmacology
AT 4650 Human Disease Lab for Athletic Training
CTE 3060 Technical Writing (GE)
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**Athletic Training Major, B.S. Degree - 120 hours**

- \*AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- \*\*A grade of C or better is required in this course for enrollment in future courses. See the catalog course descriptions for more details.
- <sup>10</sup>This course fulfills Competency 10 - Integration in the General Education program. The hours count in the major, not in general education.
- Admission to the Athletic Training major is a competitive process. Students apply to the program during the spring semester of their freshman year. Visit [www.ucmo.edu/at](http://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 . . . they earn 45 credit hours but 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](mailto:testingservices@ucmo.edu)) for more information.





**Freshman Year - Fall Semester**  
 ATM 1010 Contemporary Power Systems\*  
 ENGL 1020 Composition I (GE)  
 ET 1010 Applied Electricity  
 MATH 1111 College Algebra (GE)  
**Semester Total**

**Hrs**  
 3  
 3  
 4  
 3  
**13**

**Freshman Year - Spring Semester**  
 AC2124 300 Basic Statistics  
 ENGL 1020 Composition I  
 CADD/T05tuedmaAutoCAD+ 0 -1.2 TD(ET 1010 Applied Electr

Hrs  
 3  
 3 Year -  
**Semester Total**  
 ET 1010 Applied ElectriPHYS/

<p><b>Freshman Year - Fall Semester</b>                  ATM 1010 Contemporary Power Systems*                  ENGL 1020 Composition I (GE)                  ET 1010 Applied Electricity                  MATH 1111 College Algebra (GE)  <b>Semester Total</b></p>	<p><b>Hrs</b>                  3                  3                  4                  3  <b>13</b></p>	<p><b>Freshman Year - Spring Semester</b>                  ACST 1300 Basic Statistics or MATH 1131 Applied Calculus                  ATM 2124 Automotive Braking Systems*                  CIS 1600 Business Information Management (GE)                  ECON 1010 Principles of Macroeconomics (GE)                  General Education  <b>Semester Total</b></p>	<p><b>Hrs</b>                  3                  4                  3                  3                  3  <b>16</b></p>
<p><b>Sophomore Year - Fall Semester</b>                  ATM 2110 Contemporary Power Systems*                  ENGL 1020 Composition I (GE)                  ET 1010 Applied Electricity                  MATH 1111 College Algebra (GE)  <b>Semester Total</b></p>	<p><b>Hrs</b>                  3                  3                  4                  3  <b>13</b></p>	<p><b>Sophomore Year - Spring Semester</b>                  ACST 1300 Basic Statistics or MATH 1131 Applied Calculus                  ATM 2124 Automotive Braking Systems*                  CIS 1600 Business Information Management (GE)                  ECON 1010 Principles of Macroeconomics (GE)                  General Education  <b>Semester Total</b></p>	<p><b>Hrs</b>                  3                  4                  3                  3                  3  <b>16</b></p>

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

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

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<b>Freshman Year - Fall Semester</b>	<b>Hrs</b>	<b>Freshman Year - Spring Semester</b>
AVIA 1020 Aeronautics	2	ACCT 2101 Principles of Financial Accounting
AVIA 1310 FAA Private Requirement	3	
FLYA 1320 Private Flight A or FLYH 1320 Private Helicopter Flight A	1	
ENGL 1020 Composition I (GE)	3	
FIN 1820 Personal Finance (GE)	3	
General Education Managing Information Course (GE)*	2-3	
<b>Semester Total</b>	<b>14-15</b>	
AE 1400 University Foundations**	1	

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

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

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



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

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<b>Freshman Year - Fall Semester</b>	<b>Hrs</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs</b>
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 & Analytic Geometry I (GE)+	5	ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE)	3
General Education Managing Information	2-3	General Education	3
<b>Semester Total</b>	<b>15-16</b>	<b>Semester Total</b>	<b>14</b>
AE 1400 University Foundations*	1		
<b>Sophomore Year - Fall Semester</b>	<b>Hrs</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs</b>
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
<b>Semester Total</b>	<b>14-15</b>	<b>Semester Total</b>	<b>14-15</b>
<b>Junior Year - Fall Semester</b>	<b>Hrs</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs</b>
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** <sup>10</sup>	2
<b>Semester Total</b>	<b>14</b>	BIOL/CHEM Major Electives##	2-4
		General Education	6
		<b>Semester Total</b>	<b>15-17</b>
<b>Senior Year - Fall Semester</b>	<b>Hrs</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs</b>
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***	10-12
Free Choice Electives***	7	<b>Semester Total</b>	<b>15-17</b>
<b>Semester Total</b>	<b>15-17</b>		

**Biochemistry Major, B.S. Degree - 120 hours**

- +Enrollment in CHEM 1131 and MATH 1151 is dependent upon one or more of the following: math placement level, high school math courses completed, ACT/SAT standardized test scores, and/or a possible mathematics placement examination.
- \*AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- \*\*Upper level chemistry courses offered variably check department for actual offerings.
- \*\*\*BIOL 1111/1112 should be taken as free choice electives if students are pre-medical, pre-dental, or pre-pharmacy students. The number of free choice electives required will depend on the PHYS choice made in the major. This plan assumes that the PHYS chosen will overlap with general education.
- #A grade of C or better is required to enroll in future major coursework. See the Undergraduate Catalog for more details.
- ##Six hours of major electives are required. Three of the six hours must be CHEM. See the 2015 Undergraduate Catalog for a listing of appropriate Major Electives.
- <sup>10</sup>This course fulfills Competency 10 - Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA . . . they earn 45 credit hours but . . . 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](mailto:testingservices@ucmo.edu)) for more information.



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

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

<b>Freshman Year - Fall Semester</b>	<b>Hrs</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs</b>
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
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>16</b>

<b>Sophomore Year - Fall Semester</b>	<b>Hrs</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs</b>
BIOL 1112 Animal Biology	4	BIOL 2020 General Ecology	3
CHEM 1131 General Chemistry I (GE)*	5	CHEM 1132 General Chemistry II	5
ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE)	3	General Education	6
General Education	3	<b>Semester Total</b>	<b>14</b>
<b>Semester Total</b>	<b>15</b>		

<b>Junior Year - Fall Semester</b>	<b>Hrs</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs</b>
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
<b>Semester Total</b>	<b>16</b>	<b>Semester Total</b>	<b>15</b>

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

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

- \*A grade of C or better is required to enroll in CHEM 1132.
- \*\*Students are required to take a physiology course, either BIOL 3431 or BIOL 4411. Animal Physiology BIOL 3431 is only offered in the fall semesters and Plant Physiology BIOL 4411 is only offered in the spring semesters. Students should consult with their faculty mentor about which course to take.
- <sup>10</sup>This course fulfills Competency 10 - Integration in the General Education program. The hours count in the major, not in general education.
- This major does not build in the minimum number (30) of upper-level credit hours required for graduation. Be sure to include upper-level choices (3000/4000) in your general education and/or free choice electives.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA . . . they earn 45 credit hours but 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](mailto:testingservices@ucmo.edu)) for more information.

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

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your

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

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

<b>Freshman Year - Fall Semester</b>	<b>Hrs</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs</b>
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
<b>Semester Total</b>	<b>16</b>	General Education	3
		<b>Semester Total</b>	<b>14</b>

**Sophomore Year - Fall Semester**  
 BIOL 2020 General Ecology  
 ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE)

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

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

<b>Freshman Year - Fall Semester</b>	<b>Hrs</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs</b>
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
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>16</b>

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

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

<b>Freshman Year - Fall Semester</b>	<b>Hrs</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs</b>
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
<b>Semester Total</b>	<b>15</b>	General Education	3
		<b>Semester Total</b>	<b>15</b>
<b>Sophomore Year - Fall Semester</b>	<b>Hrs</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs</b>
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 Tech. Writing (GE)	3	General Education	9
General Education	3	<b>Semester Total</b>	<b>14-16</b>
<b>Semester Total</b>	<b>14</b>		
<b>Junior Year - Fall Semester</b>	<b>Hrs</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs</b>
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	<b>Semester Total</b>	<b>16</b>
<b>Semester Total</b>	<b>13-15</b>		
<b>Senior Year - Fall Semester</b>	<b>Hrs</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs</b>
BIOL 3431 Animal Physiology	4	BIOL 4001 Ecology Senior Seminar or	
Free Choice Electives**	12	BIOL 4002 Life Science Senior Seminar	1
<b>Semester Total</b>	<b>16</b>	BIOL 4711 Animal Ecology	4
		BIOL 4222 The Biological Perspective <sup>10</sup>	3
		Free Choice Electives**	5-7
		<b>Semester Total</b>	<b>13-15</b>

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

- #A grade of C or better is required to enroll in CHEM 1132.
- \*See the 2015 Undergraduate Catalog for list of appropriate major area electives.
- \*\*The number of free choice electives required will depend on selections made in the major and general education.
- <sup>10</sup>This course fulfills Competency 10 - Integration in the General Education program. The hours count in the major, not in general education.
- This major does not build in the minimum number (30) of upper-level credit hours required for graduation. Be sure to include upper-level choices (3000/4000) in your major electives, general education, and/or free choice electives.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA . . . they earn 45 credit hours but . . . 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

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

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

<b>Freshman Year - Fall Semester</b>	<b>Hrs</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs</b>
BIOL 1000 The Discipline of Biology and Earth Science	1	BIOL 1111 Plant Biology	4
BIOL 1110 Principles of Biology	3	CHEm2022 General Chemistry II	5
CHEm2021 General Chemistry I (GE) *#	5	ENGL 1020 Composition I (GE)	3
gOeral Education	6	gOeral Education	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>
<b>Sophomore Year - Fall Semester</b>	<b>Hrs</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs</b>
BIOL 1112 Animal Biology	4	BIOL 3611 Microbiology	4
BIOL 2512 Cell Biology	3	gOeral Education	11
ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE)	3	<b>Semester Total</b>	<b>15</b>
gOeral Education	6		
<b>Semester Total</b>	<b>16</b>		
<b>Junior Year - Fall Semester</b>	<b>Hrs</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs</b>
BIOL 3510 Genetics	4	BIOL 4514 Molecular Biology	3
gOeral Education	6	BIOL 4515 Molecular Technology Lab	2
Free Choice Electives**	5	Major Area Electives***	4
<b>Semester Total</b>	<b>15</b>	Free Choice Electives**	6
		<b>Semester Total</b>	<b>15</b>
<b>Senior Year - Fall Semester</b>	<b>Hrs</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs</b>
BIOL 3431 Animal Physiology (fall only)##	0-4#	BIOL 4002 Life Science Senior Seminar	1
Major Area Electives***	3-4	BIOL 4411 Plant Physiology (spring only)##	0-4#
Free Choice Electives**	7-12	BIOL 4222 The Biological Perspective <sup>10</sup>	3
<b>Semester Total</b>	<b>15</b>	Free Choice Electives**	6-10
		<b>Semester Total</b>	<b>14</b>

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

- \* Placement in CHEm2021 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 CHEm2021 in the second semester. A grade of C or higher in MATH 1111 is required for enrollment in CHEm2021.
- \*\* The number of free choice electives required will depend on selections made in the major and gOeral education.
- \*\*\* See the 2015 Undergraduate Catalog for list of appropriate major area electives. If PHYSm2001 is chosen, this class will count in both the major and in gOeral education. If chosen, additional hours of free choice electives will be needed to reach 120 hours for graduation.
- # A grade of C or better is required to enroll in CHEm2022.
- ## 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.
- <sup>10</sup> This course fulfills Competency 10 - Integration in the GOeral Education program. The hours count in the major, not in gOeral 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, gOeral education, and/or free choice electives.
- To satisfy the GOeral Education Assessment (GEA) Policy, students must take the GEA . . . they earn 45 credit hours but . . . 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](mailto:testingservices@ucmo.edu)) for more information.

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

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

<b>Freshman Year - Fall Semester</b>	<b>Hrs</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs</b>
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
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>
<b>Sophomore Year - Fall Semester</b>	<b>Hrs</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs</b>
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 Tech. Writing (GE)	3	<b>Semester Total</b>	<b>16</b>
<b>Semester Total</b>	<b>14</b>		
<b>Junior Year - Fall Semester</b>	<b>Hrs</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs</b>
BIOL 3611 Microbiology	4	BIOL 3211 Comparative Anatomy or	
General Education	6	BIOL 3401 Human Anatomy	3-4
Free Choice Electives	5	Major Area Electives**	4
<b>Semester Total</b>	<b>15</b>	General Education	6
		Free Choice Electives	2
		<b>Semester Total</b>	<b>15-16</b>
<b>Senior Year - Fall Semester</b>	<b>Hrs</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs</b>
BIOL 3431 Animal Physiology or		BIOL 4002 Life Science Senior Seminar	1
BIOL 3402 Human Physiology	4-5	BIOL 4222 The Biological Perspective <sup>10</sup>	3
Major Area Electives**	4	Free Choice Electives	10
Free Choice Electives	7	<b>Semester Total</b>	<b>14</b>
<b>Semester Total</b>	<b>15-16</b>		

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

- \*Enrollment in CHEM 1131 requires an ACT math score of 21 (or SAT math score of 550) or a grade of C or higher in MATH 1111.
- #A grade of C or better is required to enroll in future major coursework. See the Undergraduate Catalog for more information.
- \*\*Eight hours of major electives are required. See the 2015 Undergraduate Catalog for list of appropriate major area electives. CHEM 3421 or PHYS 1102 are strongly recommended for admission into professional programs.
- <sup>10</sup>This course fulfills Competency 10 - Integration in the General Education program. The hours count in the major, not in general education.
- It is highly recommended that students meet with their departmental academic advisor each semester.
- Students seeking professional school admission should complete an average of 15 or more credit hours per semester.
- This major does not build in the minimum number (30) of upper-level credit hours required for graduation. Be sure to include 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 . . . they earn 45 credit hours but 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](mailto:testingservices@ucmo.edu)) for more information.

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

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

**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.
- <sup>10</sup>This course fulfills Competency 10 - Integration in the General Education program. The hours count in the major, not in general education.
- This major does not build in the minimum number (30) of upper-level credit hours required for graduation. Be sure to include upper-level choices (3000/4000) in your major electives, general education, and/or free choice electives.
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**Biology Major (Area 2 Biology-Unified Science Certificate), B.S. in Ed. Degree (41-487)**

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

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

- \*Students are required to take a physiology course, either animal or plant. Animal physiology is a Fall only class and Plant physiology is a Spring only class. Students should consult with their faculty advisor about which course to take. In the semester where one of these courses is not chosen, the student must take BIOL 3611 Microbiology.
- \*\*These courses must be taken concurrently.
- \*\*\*The courses listed for this semester constitute the professional education (student teaching) block. The student should not take any other courses during this semester.
- <sup>10</sup>This course fulfills Competency 10 - Integration in the General Education program. The hours count in the major, not in general education.
- The Missouri General Education Assessment (MoGEA) is an exam required of all Teacher Education students. Students must pass all areas of the MoGEA for admission to the Teacher Education Program. Students should take and successfully complete the MoGEA before completion of their sophomore year (60 earned hours). See your academic advisor to discuss the classes needed to prepare for the exam.
- Teacher Education candidates must take the appropriate Missouri Content Assessment (MoCA) for their certification area before they can student teach, and must pass it in order to be recommended for certification. Information and registration is available on the MEGA website: <http://www.mo.nesinc.com/>.
- See [www.ucmo.edu/cert](http://www.ucmo.edu/cert) for statement and information (including application) on admission to teacher education. Full admission is required before enrollment in professional education classes and student teaching. The application for student teaching is due approximately one year in advance.

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

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

<b>Freshman Year - Fall Semester</b>	<b>Hrs</b>	<b>Freshman Year - Spring Semester</b>
BTE 1210 Essentials of Managing Information (GE)	2	ECON 1010 Principles of Macroeconomics (GE)
ENGL 1020 Composition I (GE)	3	ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE)
General Education Math	3	
General Education Science with laboratory	4	
General Education (COMM 1000 or 1050 recommended to meet MGT 3325 prerequisite)	3	
<b>Semester Total</b>	<b>15</b>	

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

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





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

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

<b>Freshman Year - Fall Semester</b>	<b>Hrs</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs</b>
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 Tech. Writing (GE)	3
MATH 1151 Calculus & Analytic Geometry I (GE)*	5	MATH 1152 Calculus & Analytic Geometry II	5
General Education Managing Information	2-3	General Education	3
<b>Semester Total</b>	<b>15-16</b>	<b>Semester Total</b>	<b>16y ns.</b>
AE 1400 University Foundations**	1		<b>5GE)</b>

**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.
- #A grade of C or better is required to enroll in future major classes.
- <sup>10</sup>This course fulfills Competency 10 - Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA . . . they earn 45 credit hours but 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](mailto:testingservices@ucmo.edu)) for more information.

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

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

**Freshman Year - Fall Semester**

CHEM 1131 General Chemistry I (GE)\*#

ENGL 1020 Composition I (GE)

MATH 1151 Calculus & Analytic Geometry I (GE)\*

General Education Managing the department for actualmest.5 . Tw OeDe Catalog fots. Students may reuatj0pg. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

CHEM 1131 General ChemistrGE)\*#

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CHEM 1131 General Chemistry I (GE)\*# EN49majRes.03chAcscition I (GE-20(iTextCatalog fots. Stunt Ue current Undergraduate Catalog ([www.ucmo.edu/](http://www.ucmo.edu/))T\*{a

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

- \*Enrollment in CHEM 1131 and MATH 1151 is dependent upon one or more of the following: math placement level, high school math courses completed, ACT/SAT standardized test scores, and/or a possible mathematics placement examination.
- #A grade of C or better is required to enroll in future required major classes. See Undergraduate Catalog for more information.
- \*\*AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- \*\*\*Upper level chemistry courses offered variably. Check with the department for actual offerings.
- <sup>10</sup>This course fulfills Competency 10 - Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA . . . they earn 45 credit hours but 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](mailto:testingservices@ucmo.edu)) for more information.

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





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

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

<b>Freshman Year - Fall Semester</b>	<b>Hrs</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs</b>
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 Tech. Writing (GE)	3
MATH 1151 Calculus & Analytic Geometry I (GE)*	5	MATH 1152 Calculus & Analytic Geometry II	5
General Education Managing Information (CIS 1600 rec. for IBE Block)#	2-3	General Education++	3
<b>Semester Total</b>	<b>15-16</b>	<b>Semester Total</b>	<b>16</b>
AE 1400 University Foundations**	1		

<b>Sophomore Year - Fall Semester</b>	<b>Hrs</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs</b>
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
<b>Semester Total</b>	<b>14</b>	General Education	3
		<b>Semester Total</b>	<b>14</b>

<b>Junior Year - Fall Semester</b>	<b>Hrs</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs</b>
CHEM 3111 Intermediate Inorganic Chemistry***	4	CHEM 3212 Quantitative Analysis	3
CHEM 3421 Intermediate Biochemistry	3	CHEM 3920 Communication Skills in Chemistry*** <sup>10</sup>	2
CHEM 4231 Instrumental Analysis***	4	CHEM 4910 Research in Chemistry	1
CHEM 4910 Research in Chemistry	1	General Education	9
General Education	3	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>15</b>		

<b>Senior Year - Fall Semester</b>	<b>Hrs</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs</b>
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	
MGT 3315 Management of Organizations#	3	<b>Semester Total</b>	
MGT 3385 or MKT 3485 or CIS 3685 IBE Practicum#	3		
MKT 3405 Marketing Policy#	3		
<b>Semester Total</b>	<b>17</b>		

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

- \*Enrollment in CHEM 1131 and MATH 1151 is dependent upon one or more of the following: math placement level, high school math courses completed, ACT/SAT standardized test scores, and/or a possible mathematics placement examination.
- \*\*AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- \*\*\*Upper level chemistry courses offered variably. Check with the department for actual offerings.
- +A grade of C or better is required to enroll in future major classes.
- ++ECON 1010 is a recommended general education course for students planning to pursue an MBA degree.
- #Students pursuing Area 4 must enroll in the IBE Block. This includes the IBE Practicum (MGT 3385, MKT 3485 or CIS 3685) concurrently with the IBE sections of MGT 3315, MKT 3405 and CIS 3630. See CIS department for enrollment in CIS 3630 due to prerequisites (ACCT 2101 and CIS 1600).
- <sup>10</sup>This course fulfills Competency 10 - Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA . . . they earn 45 credit hours but 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](mailto:testingservices@ucmo.edu)) for more information.





	10	<b>Hrs</b>
FLDX 4595 Student Teaching Secondary I		4
STCH 4080 Secondary Science Teaching		5
<b>Semester Total</b>		<b>3</b>
		<b>12</b>

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



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

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

**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.
- <sup>10</sup>This course fulfills Competency 10 - Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA . . . they earn 45 credit hours but 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 .1772 un semester

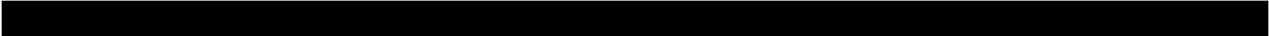
**Computer Information Systems Major (Software Development), B.S.B.A. Degree (46-266)**

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

**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

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



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

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

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

- \*AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- \*\*This class is only offered during the semester indicated.
- +Option 1 requires 27 credit hours of major electives from two different groupings. See the 2015 Undergraduate Catalog for the list of appropriate course choices.
- ++The number of free choice electives will depend on the selection made among CS 1030/MATH 1131/MATH 1151.
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**Computer Science Major (Missouri Innovation Campus (MIC) Option 1 Software Design), B.S. Degree (43-01281)**

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://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](http://www.ucmo.edu/corequiv/transferSearch.cfm).

<b>High School Junior Year/MCC - Summer Semester</b>	<b>Hrs</b>
COLL 100 First-Year Seminar	1
CSIS 110 Tech. and Info. Management (BTE 1210) (GE)	3
<b>Semester Total</b>	<b>4</b>

<b>High School Junior Year/MCC - Fall Semester</b>	<b>Hrs</b>
CSIS 115 Intro. to Microcomputer Applications (CIS 1600)	3
CSIS 123 Programming Fundamentals (CS 1100)	3
CSIS 143 Database Design and Management (CS 4600)	3
MATH 110 Intermed. Algebra or MATH 120 College Algebra	3
<b>Semester Total</b>	<b>12</b>

<b>High School Junior Year/MCC - Spring Semester</b>	<b>Hrs</b>
CSIS 222 Java (substitute for CS 1110)	3
CSIS 223 Object Oriented Programming (CS 3110)	3
HIST 120, HIST 121, POLS 135, POLS 136, or POLS 137 (GE)	3
<b>Semester Total</b>	<b>9</b>

<b>High School Senior Year/MCC - Summer Semester</b>	<b>Hrs</b>
BSAD 120 Organizational Behavior	3
CSIS 170 Principles of Information Assurance (CS 1000) (GE)	3
<b>Semester Total</b>	<b>6</b>

<b>High School Senior Year/MCC - Fall Semester</b>	<b>Hrs</b>
CSIS 128 Web Development	3
CSIS 161 Networking Fundamentals	3
ENGL 101 Composition and Reading I (ENGL 1020) (GE)	3
PHYS 130 General Physics I (PHYS 1101) (GE) or CHEM 107 Preparatory General Chemistry (GE)	5
<b>Semester Total</b>	<b>14</b>

<b>High School Senior Year/MCC - Spring Semester</b>	<b>Hrs</b>
CSIS 152 Linux Operating Systems (CS 3500)	3
CSIS 228 Advanced Web Development (CS 3120)+	3
CSIS 279 Web Database Programming	3
CSIS 290 Field Competencies and Employment Strategies	3
ENGL 215 Technical Writing (CTE 3060) (GE)	3
<b>Semester Total</b>	<b>15</b>

<b>MCC Junior Year - Summer Semester</b>	<b>Hrs</b>
BSAD 127/221 Management Internship I	3
COMM 100 Fundamentals of Speech (COMM 1000) (GE)	3
<b>Semester Total</b>	<b>6</b>

<b>UCM Junior Year - Fall Semester</b>	<b>Hrs</b>
CS 1030 Intro. to Computer Programming or MATH 1131 Applied Calculus (GE) or MATH 1151 Calculus & Analytic Geometry I	3-5
CS 2200 Introduction to Computer Organization	3
CS 2300 Data Structure	3
CS 2400 Discrete Structures	3
General Education	3
<b>Semester Total</b>	<b>15-17</b>

<b>UCM Junior Year - Spring Semester</b>	<b>Hrs</b>
ACST 1300 Basic Statistics (GE)	3
CS 3100 Programming Languages*	3
CS 3800 Applications Development w/ VB.NET**	3
General Education	6
<b>Semester Total</b>	<b>15</b>

<b>UCM Senior Year - Summer Semester</b>	<b>Hrs</b>
CS 4020 Internship in CS+	3
General Education	3
<b>Semester Total</b>	<b>6</b>

<b>UCM Senior Year - Fall Semester</b>	<b>Hrs</b>
CS 3200 Computer Architecture*	3
CS 4110 Mobile Applications Programming with Android**	3
CS 4300 Algorithm Design & Analysis*	3
CS 4800 Computer Networking+	3
CS 4910 Software Engineering	3
CS Option 1 Major Elective	3
<b>Semester Total</b>	<b>18</b>

<b>UCM Senior Year - Spring Semester</b>	<b>Hrs</b>
CS 4120 Advanced Applications Programming in Java**	3
CS 4500 Operating Systems*	3
CS 4820 Computer Security+	3
CS 4920 Senior Project* <sup>10</sup>	3
General Education	3
<b>Semester Total</b>	<b>15</b>

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

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://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](http://www.ucmo.edu/mic) or call 660-543-8256 for more information.
- \*This class is only offered during the semester indicated.
- \*\*Option 1 requires 9-18 credit hours of major electives from CS 3110, 3130, 3800, 4110, 4120 and/or 4930.
- +Option 1 requires 9-18 credit hours of major electives (18 required if only 9 hours were chosen from CS 3110, 3130, 3800, 4110, 4120, and 4930 - see above). See the 2015 Undergraduate Catalog for the list of appropriate course choices. The total number of Option 1 electives must equal 27 hours.
- <sup>10</sup>This course fulfills Competency 10 - Integration in the General Education program. The hours count in the major, not in general education.
- Please note that the credit hours from any course taken at a community college that articulates or substitutes for an upper-level (3000/4000) UCM course will not count towards the upper-level hours needed for graduation. The same rule applies to any 1000/2000 level courses at four-year institutions, even if the course(s) articulates or substitutes for an upper-level (3000/4000) UCM course. Learn more at [www.ucmo.edu/registrar/standards/upper.cfm](http://www.ucmo.edu/registrar/standards/upper.cfm).
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA . . . they earn 45 credit hours but 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](mailto:testingservices@ucmo.edu)) for more information.

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

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

<b>Freshman Year - Fall Semester</b>	<b>Hrs</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs</b>
CS 1000 Computers and Modern Society (GE)	3	COMM 1000 Public Speaking or COMM 1050 Fundamentals of Oral Communication Competency (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
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>14</b>
AE 1400 University Foundations*	1		
<b>Sophomore Year - Fall Semester</b>	<b>Hrs</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs</b>
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 1152 Calculus & Analytic Geometry II	5	CTE 3060 Technical Writing (GE)	3
General Education	3	Option 2 Major Elective***	3
<b>Semester Total</b>	<b>14</b>	General Education	3
<b>Junior Year - Fall Semester</b>	<b>Hrs</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs</b>
CS 3200 Computer Architecture**	3	CS 3100 Programming Languages**	3
CS 4300 Algorithm Design & Analysis**	3	CS 4500 Operating Systems**	3
CS 4600 Database Theory & Applications	3	Option 2 Major Electives***	7
Option 2 Major Electives***	4	General Education	3
General Education	3	<b>Semester Total</b>	<b>16</b>
<b>Semester Total</b>	<b>16</b>		
<b>Senior Year - Fall Semester</b>	<b>Hrs</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs</b>
CS 4910 Software Engineering	3	CS 4920 Senior Project** <sup>10</sup>	3
Option 2 Major Elective***	6	Option 2 Major Elective***	3
General Education	6	Free Choice Electives+++	9
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>

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

- \*AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- \*\*This class is only offered during the semester indicated.
- \*\*\*Option 2 requires a total of 28-29 credit hours. The only required course within these hours is MATH 1152. Choose the remaining 23-24 hours from the four lists in the 2015 Undergraduate Catalog. A minimum of 8 credit hours of MATH and 8 credit hours of science (BIOL/CHEM/EASC/PHYS) must be selected in Option 2. Total math and science combined must be at least 22 credit hours. The remaining 6 hours will be CS courses.
- If chosen as part of the 23-24 hours of major electives, BIOL 2010, 2510, CHEM 1131, EASC 1004, 1114, PHYS 1101 and/or 2121 will count both in the major and in general education. If selected, the number of free choice electives will increase.
- +++The number of free choice electives required will depend on the selections made in the Option 2 courses. Up to seven hours of overlap between major and general education is possible (see list in bullet above). This plan assumes no overlap.
- <sup>10</sup>This course fulfills Competency 10 - Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA . . . they earn 45 credit hours but . . . 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](mailto:testingservices@ucmo.edu)) for more information.

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



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

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

<b>Freshman Year - Fall Semester</b>	<b>Hrs</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs</b>
ACST 1300 Basic Statistics (GE)	3	COMM 1000 Public Speaking or COMM 1050 Fundamentals of Oral Communication Competency (GE)	3
CS 1000 Computers and Modern Society (GE)	3	CS 1030 Intro. to Comp. Prog. or MATH 1131 Applied Calculus or MATH 1151 Calculus & Analytic Geom. (GE)	3-5
CS 1100 Computer Programming I	3	CS 1110 Computer Programming II	3
ENGL 1020 Composition I (GE)	3	General Education	6
General Education	3	<b>Semester Total</b>	<b>15-17</b>
<b>Semester Total</b>	<b>15</b>		
AE 1400 University Foundations*	1		
<b>Sophomore Year - Fall Semester</b>	<b>Hrs</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs</b>
CS 2300 Data Structures	3	CS 2200 Introduction to Computer Organization	3
CS 3500 C and UNIX Environment	3	CS 2400 Discrete Structures	3
General Education	9	CTE 3060 Technical Writing (GE)	3
<b>Semester Total</b>	<b>15</b>	Option 4 Major Elective**	3
		General Education	3
		<b>Semester Total</b>	<b>15</b>
<b>Junior Year - Fall Semester</b>	<b>Hrs</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs</b>
CS 3200 Computer Architecture***	3	CS 3100 Programming Languages***	3
CS 3810 Introduction to Game Design	3	CS 4110 Mobile Applications Programming with Android	3
CS 4300 Algorithm Design & Analysis***	3	CS 4500 Operating Systems***	3
CS 4600 Database Theory & Applications	3	Option 4 Major Elective**	6
Option 4 Major Elective**	3	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>15</b>		
<b>Senior Year - Fall Semester</b>	<b>Hrs</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs</b>
CS 4910 Software Engineering	3	CS 4830 Game Development	3
Option 4 Major Elective**	3	CS 4920 Senior Project*** <sup>10</sup>	3
General Education	3	Option 4 Major Elective**	3
Free Choice Electives+	6	Free Choice Electives+	4-6
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>13-15</b>

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

- \*AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- \*\*Option 4 requires 18 hours of major electives. See the 2015 Undergraduate Catalog for the list of appropriate course choices.
- \*\*\*This class is only offered during the semester indicated.
- +The number of free choice electives will depend on the selection made among CS 1030/MATH 1131/MATH 1151.
- <sup>10</sup>This course fulfills Competency 10 - Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA . . . they earn 45 credit hours but 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](mailto:testingservices@ucmo.edu)) for more information.

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

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

<b>Freshman Year - Fall Semester</b>	<b>Hrs</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs</b>
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
<b>Semester Total</b>	<b>15.5</b>	<b>Semester Total</b>	<b>15</b>

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

<b>Junior Year - Fall Semester</b>
ACCT 2101 Principles of Financial Accounting
CMGT 1301 Seminar in Construction Management
CMGT 3330 Building Codes & Code Administration
CMGT 3355 Construction Planning & Scheduling
MGT 3315 Management of Organizations* or INDM 4210 Industrial Management
General Education
<b>Semester Total</b>

**Summer - Between Junior & Senior Year**

SOTD 3022 Internship in Technology	3
CMGT 3330 Building Codes & Code Administration	3
CMGT 3355 Construction Planning & Scheduling	3
General Education	3
<b>Semester Total</b>	<b>9</b>

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

- \*Students can complete a Business Administration minor by choosing MGT 3315 and MKT 3405 in the major.
- \*\*This course has a prerequisite not included in the major program. See the Undergraduate Catalog for course prerequisites.
- \*\*\*SOT 3022 Internship in Technology should be done during the summer between the junior/senior years.
- <sup>10</sup>This course fulfills Competency 10 - Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA exam 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, [testing@ucmo.edu](mailto:testing@ucmo.edu)) for more information.

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

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

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

**Crisis and Disaster Management, B.S. Degree – 120 hrs**

- \*AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- \*\*Course choice will depend on the Major Area chosen: Business Continuity Area, Emergency Management Area, Emergency Services Management Area, or the Environmental Hazards Area. Each area requires 9 specific hours of CDM courses. See the 2015 Undergraduate Catalog for more information.
- \*\*\*CDM 4900 and 4910 can be taken any semester after the sophomore year. It is recommended to take CDM 4900 after CDM 4200.
- <sup>10</sup>This course fulfills Competency 10 - Integration in the General Education program. The hours count in the major, not in general education.
- Some CDM major courses may be offered only once per year. Contact the program office in Humphreys 200 at 660-543-4971 for the most up to date course offering schedule.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA exam. If they earn 45 credit hours but are not 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](mailto:testingservices@ucmo.edu)) for more information.

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

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

**Cybersecurity Major, B.S. Degree - 120 hours**

- \*AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- \*\*This class is only offered during the semester indicated.
- +This major requires 18 hours of major electives. Choose 9-12 hours from group 1 and 6-9 hours from group 2 for a total of 18

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

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

<b>Freshman Year - Fall Semester</b>	<b>Hrs</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs</b>
BTE 1210 Essentials of Managing Information (GE)	2	CADD 2120 Machine Drafting*+	3
CADD 1100 Orientation to Design/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	<b>Semester Total</b>	<b>15</b>
MATH 1111 College Algebra (GE)	3		
<b>Semester Total</b>	<b>15</b>		
<b>Sophomore Year - Fall Semester</b>	<b>Hrs</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs</b>
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	CADD 3171 CADD for Engineering Technology+	3
ENGT 2530 Machine Tool Technology	3	CMGT 3010 Applied Constructions Practices	3
General Education	6	PHYS 1103 Introduction to the Sciences: Physics (GE)	3
<b>Semester Total</b>	<b>15.5</b>	<b>Semester Total</b>	<b>15</b>
<b>Junior Year - Fall Semester</b>	<b>Hrs</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs</b>
CADD 3100 Junior Design/Drafting Seminar*	.5	CADD 3150 Civil Drafting	3
CADD 3175 Advanced MicroStation	3	CADD 3170 Computer Drafting Systems	3
CTE 3060 Technical Writing (GE)	3	Major Area Electives**	3
GEOG 2212 World Geography (GE)	3	General Education	6
General Education	6	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>15.5</b>		
<b>Summer – Between Junior &amp; Senior Year</b>	<b>Hrs</b>		
SOT 3022 Internship in Technology***	1		
SOT 4210 Innovations Management for CADD or HRM 3920 Human Resource Management***	3		
<b>Semester Total</b>	<b>4</b>		
<b>Senior Year - Fall Semester</b>	<b>Hrs</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs</b>
CADD 4100 Senior Design/Drafting Seminar*	1	INDM 4250 Project Management or MGT 3315 Management of Organizations***	3
CADD 4180 Industrial Design <sup>10</sup>	3	Major Area Electives**	6
SOT 4570 Computer Graphics	3	Free Choice Electives	3
Major Area Electives**	6	<b>Semester Total</b>	<b>12</b>
<b>Semester Total</b>	<b>13</b>		

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

- Must earn a grade of C or higher in all CADD prefix courses.
- \*This class is only offered the semester indicated.
- +A grade of C or higher is required in these courses for enrollment in future CADD courses.
- \*\*Students choose an area of specialty from the following five areas: Area 1 Mechanical (Product/Machine) Design, Area 2 Architectural/Structural, Area 3 MEP (Mechanical, Electrical & Plumbing) & Industrial Piping Systems, Area 4 Civil/GIS, or Area 5 Computer Graphics. Fifteen credit hours of Major Area Electives are required. See the 2015 Undergraduate Catalog for the list of classes required in each area.
- \*\*\*Students either take INDM 4250 and SOT 4210 or MGT 3315 and HRM 3920.
- <sup>10</sup>This course fulfills Competency 10 - Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA . . . they earn 45 credit hours but . . . 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](mailto:testingservices@ucmo.edu)) for more information.

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

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://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](http://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](http://www.ucmo.edu/academics/catalogs)) for a complete listing of the 42 hours of general education.

<b>High School Junior Year/MCC - Summer Semester</b>	<b>Hrs</b>
COMM 102 Fundamentals of Speech (COMM 1000) (GE)	3
EHSS 111 Intro. to Health and Safety General Industry (N/A)	1
ENGR 101 Intro. to Engineering Profession (ENGT 1500)	1
<b>Semester Total</b>	<b>5</b>

<b>High School Junior Year/MCC - Fall Semester</b>
ETEC 152 Engineering Graphics and CADD I (CADD 1105, 1110, & 1170)
HIST 120 or 121 American HT*+s17e 3 1 Tf01 Tw 1 Tf1 1 Tf64c5eo1 1OQ(JT1.2 36,T*

<b>High School Junior Year/MCC - Spring Semester</b>	<b>Hrs</b>
ETEC 265 Introduction to Civil Design (CADD 3150)	3
ETEC 269 CADD II (articulates as CADD 1170 but will be substituted for CADD 2180)#	4
MATH 130 Trigonometry (MATH 1112) or MATH 150 Precalculus (MATH 1150)	3 or 5
<b>Semester Total</b>	<b>10 or 12</b>

<b>High School Senior Year/MCC - Fall Semester</b>	<b>Hrs</b>
ENGL 101 Composition and Reading I (ENGL 1020) (GE)	3
ETEC 153 Descriptive Geometry (N/A, this course will substitute for CADD 2150)##	4
PHYS 130 General Physics (articulates as PHYS 1101, but will substitute for PHYS 1103) (GE)+	5
<b>Semester Total</b>	<b>12</b>

( ... A.H 130, 150, ... )

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

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

**General Information**

- This program is offered in cooperation with the Lee's Summit R-7 School District and the Metropolitan Community College (MCC). Students begin the program during their junior year in high school and will earn an AAS degree from MCC-BTC with a major in Engineering Technology: Architecture Emphasis.
- Students must be accepted into this program. Go to [www.ucmo.edu/mic](http://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](http://www.ucmo.edu/registrar/standards/upper.cfm).
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA . . . they earn 45 credit hours but . . . 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](mailto:testingservices@ucmo.edu)) for more information.

**Key to Curriculum Notes on Four Year Guide**

- Must earn a grade of C or higher in all CADD prefix courses including those transferred.
- #While this course articulates to CADD 1170, it will also substitute for CADD 2180 which is also required in the UCM major.
- ##This course will substitute for CADD 2150 which is required in the UCM major.
- +This course will substitute for PHYS 1103 which is required in the UCM major.
- ++This course will substitute for CADD 3160 which is required in Area 2 of the UCM major.
- +++This course will substitute for CMGT 3330 which is required in Area 2 of the UCM major.
- \*This course will substitute for CADD 4162 which is required in Area 2 of the UCM major.
- \*\*This class is only offered the semester indicated.
- \*\*\*Students either take INDM 4250 and SOT 4210 or MGT 3315 and HRM 3920.
- ^All students must earn a minimum of 30 upper-level credits for graduation. These are classes taken at the 3000/4000 level. Courses taken at a community college may not count for these hours, even if the course is articulated or substituted for an upper-level UCM course. Students are encouraged to choose upper-level courses in the general education where available. Depending on choices made in the general education and internship, students may need additional hours of upper-level free choice electives for graduation.
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**Dietetics Major, B.S. Degree (43-274)**

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

<b>Freshman Year - Fall Semester</b>	<b>Hrs</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs</b>
CHEM 1104 Introduction to the Sciences: Chemistry (GE)#	4	MATH 1111 College Algebra (GE)#	3
D&N 1300 Introduction to Dietetics#	1	PE 2472 Communicating Ideas on Sport (GE)#	3
ENGL 1020 Composition I (GE)	3	SOC 1800 General Sociology (GE)#	3
PSY 1100 General Psychology (GE)#	3	General Education	6
General Education Managing Information	2-3	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>13-14</b>		
AE 1400 University Foundations*	1		
<b>Sophomore Year - Fall Semester</b>	<b>Hrs</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs</b>
BIOL 3401 Human Anatomy#	3	ACCT 2100 Survey of Accounting#	3
FOOD 2320 Sanitation and Safety#	1	BIOL 3402 Human Physiology#	5
FOOD 2322 Food Preparation#	3	CTE 3060 Technical Writing (GE)#	3
HIST 1350 or 1351 US History	3	D&N 3340 Nutrition#	3
General Education	6	Free Choice Elective	3
<b>Semester Total</b>	<b>16</b>	<b>Semester Total</b>	<b>17</b>
<b>Junior Year - Fall Semester</b>	<b>Hrs</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs</b>
BIOL 3611 Microbiology#	4	CHEM 1604 Elementary Organic & Biochemistry#	4
FOOD 3332 Quantity Food Production & Service#	3	FOOD 3334 Advanced Food Systems Management##	3
FOOD 3333 Food Systems Management##	3	PSY 4520 Statistics for the Behavioral Sciences#	3
Free Choice Electives	6	Free Choice Electives	4-5
<b>Semester Total</b>	<b>16</b>	<b>Semester Total</b>	<b>14-15</b>
<b>Senior Year - Fall Semester</b>	<b>Hrs</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs</b>
D&N 4340 Advanced Nutrition##	3	BIOL 2510 Basic Genetics (GE)#	3
D&N 4342 Medical Nutrition I##	3	D&N 3350 Community Nutrition#	3
D&N 4345 Senior Dietetics Seminar## <sup>10</sup>	3	D&N 4343 Medical Nutrition II##	3
FOOD 4326 Experimental Foods#	3	D&N 4344 Nutrition Education & Counseling##	2
<b>Semester Total</b>	<b>12</b>	Free Choice Elective	5
		<b>Semester Total</b>	<b>16</b>

**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.
- <sup>10</sup>This course fulfills Competency 10 - Integration in the General Education program. The hours count in the major, not in general education.
- Registration as a dietitian requires an internship beyond BS degree. This degree fulfills the "Didactic Program in Dietetics Academic Requirements" of the Academy of Nutrition and Dietetics.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA . . . they earn 45 credit hours but 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](mailto:testingservices@ucmo.edu)) for more information.

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

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

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

- #Students should choose ENGL 1030 as the second writing course to meet prerequisite/corequisite for COMM 1500.
- \*Students will choose a major area (21 credit hours) from: Audio, Live Studio and Remote Production, Digital Cinema, or Digital Journalism. See the 2015 Undergraduate Catalog for the list of courses to fulfill the major area.
- \*\*Students must complete, in any combination, a total of three credit hours of COMM 3200 (practicum) or COMM 4295 (internship).
- \*\*\*COMM 4490 must be taken during the student's final semester.
- <sup>10</sup>This course fulfills Competency 10 - Integration in the General Education program. The hours count in the major, not in general education.
- See the 2015 Undergraduate Catalog or the Department of Communication for the statement of policy for admission to the major program.
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**Earth Science Major, Area 1: Standard Earth Science Certificate; B.S. in Ed. Degree (41-280)**

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any

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

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

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

- \*AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective, however this major does not require any free choice electives.
- \*\*This course is offered in alternate Spring semesters.
- \*\*\*These courses must be taken concurrently.
- <sup>10</sup>This course fulfills Competency 10 - Integration in the General Education program. The hours count in the major, not in general education.
- The Missouri General Education Assessment (MoGEA) is an exam required of all Teacher Education students. Students must pass all areas of the MoGEA for admission to the Teacher Education Program. Students should take and successfully complete the MoGEA before completion of their sophomore year (60 earned hours). See your academic advisor to discuss the classes needed to prepare for the exam.
- Teacher Education candidates must take the appropriate Missouri Content Assessment (MoCA) for their certification area before they



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



This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your

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

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

<b>Freshman Year - Fall Semester</b>		<b>Hrs</b>	<b>Freshman Year - Spring Semester</b>		<b>Hrs</b>
ENGL 1020 Composition I (GE)		3	CTE 3060 Technical Writing (GE)		3
ET 1026 DC Circuit Analysis*		4	ET 1027 AC Circuit Analysis*		3
ET 1050 Digital Principles & Applications*		4	ET 2048 Active Electronic Devices*		4
MATH 1111 College Algebra (GE)		3	MATH 1112 College Trigonometry or		
General Education Managing Information		2	TECH 1042 Technical Mathematics II		2-3
<b>Semester Total</b>		<b>16</b>	<b>Semester Total</b>		<b>12-13</b>
AE 1400 University Foundations**		1			

<b>Sophomore Year - Fall Semester</b>		<b>Hrs</b>	<b>Sophomore Year - Spring Semester</b>		<b>Hrs</b>
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*		3
ET 3020 Circuit Analysis & Implementation* <sup>10</sup>		4	PHYS 1104 Introduction to the Sciences: Physics (GE)		4
MATH 1131 Applied Calculus or			General Education		3
TECH 2040 Calculus for Technology		3	<b>Semester Total</b>		<b>13</b>
<b>Semester Total</b>		<b>14</b>			

<b>Junior Year - Fall Semester</b>		<b>Hrs</b>	<b>Junior Year - Spring Semester</b>		<b>Hrs</b>
ET 3041 Communication Systems*		3	ET 3014 Analog-Digital Circuitry*		3
MGT 3315 Management of Organizations or			ENGT 4110 Engineering Technology Problem Solving 034 0.034 Tw (nySemester T)74{otal}00		Y
INDM 4210 Industrial Management		3			
Departmentally Approved Area 1 Management Elective#		3			
General Education		6			
<b>Semester Total</b>		<b>15</b>			

<b>Junior Year - Summer Semester</b>		<b>Hrs</b>
SOT 3022 Internship in Technology		3
<b>Semester Total</b>		<b>3</b>

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

- \*This class is only offered during the semester indicated.
- \*\* AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- \*\*\*See department chairperson for appropriate choices for the Departmentally Approved Area 1 Electives. Fourteen to fifteen hours are required, at least two hours must be at the upper-level (3000/4000). The number of electives needed will depend on the choice made between MATH 1112 and TECH 2040. The area hours must total 44 credits.
- #See department chairperson for appropriate choices for the Management Elective.
- <sup>10</sup>This course fulfills Competency 10 - Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA . . . they earn 45 credit hours but . . . 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](mailto:testingservices@ucmo.edu)) for more information.

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

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

<b>Freshman Year - Fall Semester</b>	<b>Hrs</b>	<b>Freshman Year - Spring Semester</b>
ENGL 1020 Composition I (GE)	3	ET 1027 AC Circuit Analysis*
ET 1026 DC Circuit Analysis*	4	ET 2048 Active Electronic Devices*
ET 1050 Digital Principles & Applications*	4	NET 1058 Computer Technologies*
MATH 1111 College Algebra (GE)	3	General Education <b>duatg 1 Tw ( courses</b>
General Education Managing Information	2	<b>4</b>
<b>Semester Total</b>	<b>16</b>	<b>3</b>
AE 1400 University Foundations**	1	

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

- \*This class is only offered during the semester indicated.
- \*\*AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- \*\*\*This major requires a nine hour set of NET courses. The two options include: NET 4040, 4042, and 4043 OR NET 3000, 3062, and 4064.
- #See department chairperson for appropriate choices for the Departmentally Approved Elective. Seven hours are required.
- <sup>10</sup>This course fulfills Competency 10 - Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA . . . they earn 45 credit hours but . . . 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](mailto:testingservices@ucmo.edu)) for more information.

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

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

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

- \*The courses listed for this semester constitute the professional education (student teaching) block. The student should not take any other courses during this semester.
- <sup>19</sup>This course fulfills Competency 10 - Integration in the General Education program. The hours count in the major, not in general education.
- Courses in italics in the junior and senior years are the Clinical Pathway blocks. The department will enroll you in these courses, and you will self-enroll in any non-CP course you plan to take in that semester. Students pursuing the double certification clinical pathways option will have the opportunity to complete all three Junior Blocks. Please see your Academic Advisor for course planning assistance.
- The Missouri General Education Assessment (MoGEA) is an exam required of all Teacher Education students. Students must pass all areas of the MoGEA for admission to the

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

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

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

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

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

<b>Freshman Year - Fall Semester</b>	<b>Hrs</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs</b>
<i>ENGL 1020 Composition I (GE)</i>	3	<i>ENGL 1030 Composition II or CTE 3060 Tech. 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	<i>General Education Science w/lab</i>	4
<b>Semester Total</b>	<b>15</b>	General Education Managing Information	2
		<b>Semester Total</b>	<b>15</b>

<b>Sophomore Year - Fall Semester</b>	<b>Hrs</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs</b>
ECEL 2110 Diversity and Social Justice (GE)	3	ECEL 2620 Physical Science & Engin. Design for Teachers	3
ECEL 2610 Life & Earth Science for Teachers	3	ECEL 2850 Integr. of Arts & Movement in EC & Elem. Class.	3
EDFL 2240 Educational Psychology (GE)	3	EDFL 2250 Introduction to English Language Learners and Culturally Responsive Pedagogy	2
EDFL 2100 Introduction to the Teaching Profession	3	MATH 2820 Elem. Math from an Advanced Perspective	3
FLDX 2150 Introductory Field Experience	1	General Education	6
EDSP 2100 Education of Exceptional Child	3	<b>Semester Total</b>	<b>17</b>
<b>Semester Total</b>	<b>16</b>	<i>(Successfully complete MoGEA exam by end of this semester)</i>	

<b>Junior Year - Fall Semester</b>	<b>Hrs</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs</b>
<i>Junior Block II: Methods for the Young Learner (Grades 1-3)</i>		<i>Junior Block III: Methods for the Intern. Learner (Grades 4-6)</i>	
<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 Econ. 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	<i>MATH 3820 Mathematics for the Intermediate Learner</i>	2
CFD 1220 Child Development or PSY 2220 Child Psychology or PSY 3220 Lifespan Development	3	ECEL 2520 Social Studies for Teaching Intermediate Grades	3
ECEL 2510 Social Studies for Teaching Primary Grades	3	ECEL 2901 Technology in Education Seminar II	1
ECEL 2900 Technology in Education Seminar I	1	ECEL 3468 Community, School, & Family Connections	3
EDFL 3410 Children's Literature	2	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>17</b>		

<b>Senior Year - Fall Semester</b>	<b>Hrs</b>	<b>Senior Year - Spring Semester+</b>	<b>Hrs</b>
<i>Senior Block I: Senior Experience</i>		ECEL 4150 Student Teaching Professional Seminar	2
<i>ECEL 4120 Curriculum Design and Assessment</i>	3	FLDX 4495 Student Teaching Elementary I	6
<i>ECEL 4140 Communication Arts Integration</i>	5	FLDX 4496 Student Teaching Elementary II <sup>10</sup>	4
<i>ECEL 4400 Classroom Management &amp; Interactions*</i>	3	<b>Semester Total</b>	<b>12</b>
<i>MATH 4800 Curriculum Design and Assessment in Math</i>	2		
<b>Semester Total</b>	<b>13</b>		
<i>(All non-student teaching coursework and tests must be successfully completed by the end of this semester for enrollment in student teaching.)</i>			

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

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

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

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

<b>Freshman Year - Fall Semester</b>	<b>Hrs</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs</b>
<i>ENGL 1020 Composition I (GE)</i>	3	<i>ENGL 1030 Composition II or CTE 3060 Tech. 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	<i>General Education Science w/lab</i>	4
<b>Semester Total</b>	<b>15</b>	General Education Managing Information	2
		<b>Semester Total</b>	<b>15</b>

<b>Sophomore Year - Fall Semester</b>	<b>Hrs</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs</b>
ECEL 2110 Diversity and Social Justice (GE)	3	ECEL 2620 Physical Science & Engin. Design for Teachers	3
ECEL 2610 Life & Earth Science for Teachers	3	ECEL 2850 Integr. of Arts & Movement in EC & Elem. Class.	3
EDFL 2240 Educational Psychology (GE)	3	EDFL 2250 Introduction to English Language Learners and Culturally Responsive Pedagogy	2
EDFL 2100 Introduction to the Teaching Profession	3	MATH 2820 Elem. Math from an Advanced Perspective	3
FLDX 2150 Introductory Field Experience	1	General Education	6
EDSP 2100 Education of Exceptional Child	3	<b>Semester Total</b>	<b>17</b>
<b>Semester Total</b>	<b>16</b>	<i>(Successfully complete MoGEA exam by end of this semester)</i>	

<b>Junior Year - Fall Semester</b>	<b>Hrs</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs</b>
CFD 1220 Child Development or PSY 2220 Child Psychology or PSY 3220 Lifespan Development	3	ECEL 2520 Social Studies for Teaching Intermediate Grades	3
ECEL 2510 Social Studies for Teaching Primary Grades	3	ECEL 2901 Technology in Education Seminar II	1
ECEL 2900 Technology in Education Seminar I	1	ECEL 3468 Community, School, & Family Connections	3
ECEL 3220 The Teaching of Language Arts	3	EDFL 3215 Teaching Reading in Content Fields	3
ECEL 3430 Strat. for Teaching Elem. Social Studies & Science	2	MATH 3800 Teaching and Learning Numbers & Operations	3
EDFL 3210 Methods of Reading Instruction	3	MATH 3801 Teaching & Learning Geometry & Measurement	3
EDFL 3410 Children's Literature	2	<b>Semester Total</b>	<b>16</b>
<b>Semester Total</b>	<b>17</b>		

<b>Senior Year - Fall Semester</b>	<b>Hrs</b>	<b>Senior Year - Spring Semester+</b>	<b>Hrs</b>
<i>Senior Block I: Senior Experience</i>		ECEL 4150 Student Teaching Professional Seminar	2
<i>ECEL 4120 Curriculum Design and Assessment</i>	3	FLDX 4495 Student Teaching Elementary I	6
<i>ECEL 4140 Communication Arts Integration</i>	5	FLDX 4496 Student Teaching Elementary III <sup>10</sup>	4
<i>ECEL 4400 Classroom Management &amp; Interactions*</i>	3	<b>Semester Total</b>	<b>12</b>
<i>MATH 4800 Curriculum Design and Assessment in Math</i>	2		
<b>Semester Total</b>	<b>13</b>		

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

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

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

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

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

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

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

- \*This class is only offered during the semester indicated.
- \*\*Enrollment in MATH 1112 assumes you have met the prerequisite MATH requirements in your high school curriculum. If you have not met these requirements MATH 1111 or proper MATH placement will be required per University planned placement guidelines.
- <sup>10</sup>This course fulfills Competency 10 - Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA . . . they earn 45 credit hours but . . . 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](mailto:testingservices@ucmo.edu)) for more information.



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

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual time to complete a degree and the sequence in vuj0 Tw 26.4u a urseyduh( )T;t\*(1)T;t(d(HrT)0 Tw 26.4 137Y( )T;t0.031 Tw T\*(Gene

**Freshman Year - Fall Semester**

CADD 1105 Basic AutoCAD	1
CADD 1110 Fundamentals of Drafting+ or CTE 1300 Introduction to Engineering Design	3
CADD 1170 Introduction to Computer-Aided Drafting	2
CIS 1600 Business Information Management (GE)	3
ENGT 1000 Principles of Engineering	3
ENGT 1500 Orientation to Engineering Technology*	1
MATH 1112 College Trigonometry**	2
<b>Semester Total</b>	<b>15</b>

**Freshman Year - Spring Semester**

CADD 2120 Machine Drafting*+	3
ENGL 1020 Composition I (GE)	3
ENGT 1510 Introduction to Manufacturing Processes*	3
ET 1010 Applied Electricity	4
MATH 1131 Applied Calculus (GE)	3
<b>Semester Total</b>	<b>16</b>

**Sophomore Year - Fall Semester**

CMGT 2020 Statics	3
ENGT 2040 Engineering Materials Science	4
ENGT 2530 Machine Tool Technology	3
PHYS 1101 College Physics I (GE)	4
<b>Semester Total</b>	<b>14</b>

**Sophomore Year - Spring Semester**

CADD 3171 CAD & Design for Engineering Technology+	3
CMGT 3020 Applied Strength of Materials	3
COMM 1000 Public Speaking (GE)	3
ECON 1010 Principles of Macroeconomics (GE)	3
ENGT 1501 Seminar in Engineering Technology	1
General Education	3
<b>Semester Total</b>	<b>16</b>

**Junior Year - Fall Semester**

CADD 4171 Production Design/Drafting*	3
CTE 3060 Technical Writing (GE)	3
ENGT 1501 Seminar in Engineering Technology	1
ENGT 2600 Lean Enterprises	3
General Education	6
<b>Semester Total</b>	<b>16</b>

**Junior Year - Spring Semester**

CADD 4124 Geometric Dimensioning & Tolerancing Principles for Engineering Technology*	3
CADD 4174 Machine Design*	3
CHEM 1103 Introduction to the Sciences: Chemistry (GE)	3
ENGT 1120 Welding	3
ENGT 3562 Computer Numerical Control (CNC)	3
<b>Semester Total</b>	<b>15</b>

**Junior Year - Summer Semester**

SOT 3022 Internship in Technology	1
<b>Semester Total</b>	<b>1</b>

**Senior Year - Fall Semester**

ATM 4032 Hydraulics & Pneumatics	3
CMGT 3320 Principles of Construction Management or INDM 4250 Project Management	3
ENGT 3520 Engineering Economy	3
General Education	6
<b>Semester Total</b>	<b>15</b>

**Senior Year - Spring Semester**

ENGT 3530 Inspection and Quality Control	3
ENGT 4110 Engineering Technology Problem Solving <sup>10</sup>	3
ENGT 4580 Quality Systems	3
Departmentally Approved Option 2 Elective***	1
General Education	3
<b>Semester Total</b>	<b>13</b>

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

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

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

- \*This class is only offered during the semester indicated.
- \*\*Enrollment in MATH 1112 assumes you have met the prerequisite MATH requirements in your high school curriculum. If you have not met these requirements MATH 1111 or proper MATH placement will be required per University planned placement guidelines.
- +A grade of C or higher is required in these courses for enrollment in future CADD courses.
- <sup>10</sup>This course fulfills Competency 10 - Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA . . . they earn 45 credit hours but . . . earning



<b>Freshman Year - Fall Semester</b>	<b>Hrs</b>
CADD 1105 Basic AutoCAD	
CADD 1110 Fundamentals of Drafting or CTE 1300 Introduction to Engineering Design	
CADD 1170 Introduction to Computer-Aided Drafting	
CIS 1600 Business Information Management (GE)	
ENGT 1000 Principles of Engineering	
ENGT 1500 Orientation to Engineering Technology*	
MATH 1112 College Trigonometry**	
<b>Semester Total</b>	

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

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

<b>Freshman Year - Fall Semester</b>		<b>Hrs</b>	<b>Freshman Year - Spring Semester</b>		<b>Hrs</b>
CADD 1105 Basic AutoCAD		1	COMM 1000 Public Speaking (GE)		3
CADD 1110 Fundamentals of Drafting or CTE 1300 Introduction to Engineering Design		3	EASC 1004 Introduction to Geology (GE)		4
CADD 1170 Introduction to Computer-Aided Drafting		2	ECON 1010 Principles of Macroeconomics (GE)		3
CIS 1600 Business Information Management (GE)		3	ENGL 1020 Composition I (GE)		3
ENGT 1000 Principles of Engineering		3	MATH 1131 Applied Calculus (GE)		3
ENGT 1500 Orientation to Engineering Technology*		1	<b>Semester Total</b>		<b>16</b>
MATH 1112 College Trigonometry**		2			
<b>Semester Total</b>		<b>15</b>			

<b>Sophomore Year - Fall Semester</b>		<b>Hrs</b>	<b>Sophomore Year - Spring Semester</b>		<b>Hrs</b>
CMGT 2020 Statics		3	CADD 2160 Structural Drafting		3
CTE 3060 Technical Writing (GE)		3	CADD 3150 Civil Drafting		3
PHYS 1101 College Physics I (GE)		4	CMGT 2325 Project Cost Estimating		3
General Education		6	CMGT 3020 Applied Strengths of Materials		3
<b>Semester Total</b>		<b>16</b>	EASC 2100 Engineering Geology		4
			<b>Semester Total</b>		<b>16</b>

<b>Junior Year - Fall Semester</b>		<b>Hrs</b>	<b>Junior Year - Spring Semester</b>		<b>Hrs</b>
CADD 2171 Introduction to MicroStation		3	CADD 3175 Advanced MicroStation		3
CADD 4150 Applied Civil Design/Drafting		3	CADD 4162 Commercial Architecture Design/Drafting (BIM)		3
CMGT 2340 Surveying and Construction Layout		3	CMGT 3350 Building Structures: Methods and Materials		3
CMGT 3320 Principles of Construction Management or INDM 4250 Project Management		3	ENGT 1501 Seminar in Engineering Technology		1
ENGT 1501 Seminar in Engineering Technology		1	ENGT 4120 Hydrology and Drainage Design*		3
ENGT 4140 Soils and Foundation Design*		3	ET 1010 Applied Electricity		4
<b>Semester Total</b>		<b>16</b>	<b>Semester Total</b>		<b>17</b>

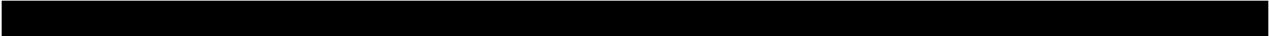
<b>Junior Year - Summer Semester</b>	<b>Hrs</b>
SOT 3022 Internship in Technology	1
<b>Semester Total</b>	<b>1</b>

<b>Senior Year - Fall Semester</b>		<b>Hrs</b>	<b>Senior Year - Spring Semester</b>		<b>Hrs</b>
ENGT 3520 Engineering Economy*		3	ENGT 4110 Engineering Technology Problem Solving <sup>10</sup>		3
ENGT 4160 Transportation Systems Design*		3	ENGT 4580 Quality Systems		3
GEOG 4220 Geographic Information Systems I*		3	General Education		6
General Education		6	<b>Semester Total</b>		<b>12</b>
<b>Semester Total</b>		<b>15</b>			

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

- \*This class is only offered during the semester indicated.
- \*\*Enrollment in MATH 1112 assumes you have met the prerequisite MATH requirements in your high school curriculum. If you have not met these requirements MATH 1111 or proper MATH placement will be required per University planned placement guidelines.
- <sup>10</sup>This course fulfills Competency 10 - Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA . . . they earn 45 credit hours but . . . 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](mailto:testingservices@ucmo.edu)) for more information.

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



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

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

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

- \*AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- \*\*Students must complete 15 credit hours (5 classes) from five different areas. One course must be chosen from each of the five areas: Medieval or Renaissance Literature, 17th and 18th Century Literature, 19th Century Literature, 20th and 21st Century Literature, and Traditionally Underrepresented Literature. Within these hours, six hours must be of American Literature. See the Undergraduate Catalog for the choices that fulfill this requirement.
- \*\*\*The courses listed for this semester constitute the professional education (student teaching) block. The student should not take any other courses during this semester.
- #These four courses must be taken as a block, see your academic advisor for enrollment.
- ##These courses must be taken concurrently.
- <sup>10</sup>This course fulfills Competency 10 - Integration in the General Education program. The hours count in the major, not in general education.
- The Missouri General Education Assessment (MoGEA) is an exam required of all Teacher Education students. Students must pass all areas of the MoGEA for admission to the Teacher Education Program. Students should take and successfully complete the MoGEA before completion of their sophomore year (60 earned hours). See your academic advisor to discuss the classes needed to prepare for the exam.
-

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



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

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

<b>Freshman Year - Fall Semester</b>		<b>Hrs</b>	<b>Freshman Year - Spring Semester</b>		<b>Hrs</b>
CFD 1010 Individual & Family Relationships (GE)		3	ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE)		3
ENGL 1020 Composition I (GE)		3	FAME 1450 Fund. of Apparel Design and Construction		3
FAME 1400 Introduction to Fashion Merchandising		3	General Education		9
FAME 1445 Fashion Seminar 1*		1	<b>Semester Total</b>		<b>15</b>
General Education (If chosen, CIS 1600 will also count in the Business Administration minor)**		3			
<b>Semester Total</b>		<b>13</b>			

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

<b>Sophomore Year - Fall Semester</b>		<b>Hrs</b>
FAME 2442 Textile Science		3
FAME 2445 Fashion Seminar 2*		1
General Education		9
<b>Semester Total</b>		<b>13</b>

<b>Sophomore Year - Spring Semester</b>		<b>Hrs</b>
FAME 2425 Apparel Quality Analysis*		3
Minor Coursework (BLAW 2720 recommended for overlap with both Marketing and Business Administration minors)**		3
General Education		9
<b>Semester Total</b>		<b>15</b>

<b>Junior Year - Fall Semester</b>		<b>Hrs</b>
FAME 3415 Product Development for Consumers*		3
FAME 3430 Professional Image Management*		3
FAME 3434 Fashion History of Costume (GE)*		3
FAME 3445 Fashion Seminar 3*		1
Minor Coursework (MKT 3405 required for both minors)**		3
<b>Semester Total</b>		<b>13</b>

<b>Junior Year - Spring Semester</b>		<b>Hrs</b>
ACCT 2101 Principles of Financial Accounting		3
FAME 3435 Fashion Buying*		3
FAME 3440 Fashion Promotion and Visual Merchandising*		3
Minor Coursework**		6
<b>Semester Total</b>		<b>15</b>

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

<b>Senior Year - Fall Semester</b>		<b>Hrs</b>
FAME 4410 Materials for Interior Furnishings*		3
FAME 4425 Fashion Entrepreneurship*		3
Major Elective###		3
Minor Coursework** (0 hours needed for Bus. Adm. minor and 6 hours needed for Marketing minor)		0-6
Free Choice Electives### (0 hours needed for Mkt. major and 6 hours needed for Business Administration minor)		0-6
<b>Semester Total</b>		<b>15</b>

<b>Senior Year - Spring Semester</b>		<b>Hrs</b>
FAME 3442 Sustainability for Consumer Products (GE)*		3
FAME 4433 International Apparel Technology*		3
FAME 4445 Senior Seminar in FAME* <sup>10</sup>		3
Major Elective##		3
Free Choice Electives###		6
<b>Semester Total</b>		<b>15</b>

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

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



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

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

<b>Freshman Year - Fall Semester</b>	<b>Hrs</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs</b>
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 Tech. Writing (GE)	3
MATH 1111 College Algebra (GE)*	3	General Education	6
General Education	3	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>15</b>		
AE 1400 or BADM 1400 University Foundations**	1		
<b>Sophomore Year - Fall Semester</b>	<b>Hrs</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs</b>
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
<b>Semester Total</b>	<b>15</b>	Free Choice Electives	2
		<b>Semester Total</b>	<b>15</b>
<b>Note: Core B.S.B.A. degree requirement.*</b>			
<b>Junior Year - Fall Semester</b>	<b>Hrs</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs</b>
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
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>
<b>Senior Year - Fall Semester</b>	<b>Hrs</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs</b>
CIS 3630 Management Information Systems	3	MGT 4357 Organizational Policy & Strategy <sup>10</sup>	3
ECON 3030 Intermediate Microeconomics	3	MGT 3360 Supply Chain and Operations Management	3
MKT 3405 Marketing Policy	3	Finance Electives#	6
Finance Electives#	6	Finance or Upper-Level Business Elective#	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>

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

- \*Students in this major must complete eight preadmission courses with a grade of C or higher and must obtain a 2.40 cumulative GPA and a 2.40 in these specific courses, before admission to the degree program. These courses are recommended for completion during the freshman and sophomore years.
- \*\*AE 1400 and BADM 1400 (1 hr.) are free choice electives and are highly recommended for academic success. If AE 1400 or BADM 1400 is chosen, 1 less hour of free choice electives will be needed.
- \*\*\*A minimum grade of C must be earned in FIN 3850, FIN 3861, FIN 3881, FIN 3891 and FIN 3893 if they are to be applied toward the fulfillment of a Finance major or minor.
- #Fifteen hours of Finance electives are required for this major. Up to three of these hours may be a non-finance upper-level (3000-4000) business elective. See department chairperson for advice. The finance electives include: FIN 3835, FIN 4803, FIN 4804, FIN 4815, FIN 4817, FIN 4820, FIN 4821, FIN 4831, FIN 4862, and FIN 4880. FIN 4830 may be available as an elective with department chairperson approval. Electives are not offered every semester – check with the department chairperson for course offerings.
- <sup>10</sup>This course fulfills Competency 10 - Integration in the General Education program. The hours count in the major, not in general education.
- A 2.40 cumulative GPA is required for graduation in this major.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA exam 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](mailto:testingservices@ucmo.edu)) for more information.

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

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

<b>Freshman Year - Fall Semester</b>	<b>Hrs</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs</b>
CHEM 1131 General Chemistry I (GE)*+	5	CHEM 1132 General Chemistry II+	5
ENGL 1020 Composition I (GE)	3	CJ 1000 Introduction to Criminal Justice (GE)	3
MATH 1151 Calculus & Analytic Geometry I (GE)*	5	ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE)	3
General Education	2-3	General Education	3
<b>Semester Total</b>	<b>15-16</b>	<b>Semester Total</b>	<b>14</b>
AE 1400 University Foundations**	1		
<b>Sophomore Year - Fall Semester</b>	<b>Hrs</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs</b>
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 College Physics I (GE) or PHYS 2121 University Physics I (GE)	4-5	PHYS 1102 or PHYS 2122 College/University Physics II	4-5
General Education	3	General Education	3
<b>Semester Total</b>	<b>14-15</b>	<b>Semester Total</b>	<b>14-15</b>
<b>Junior Year - Fall Semester</b>	<b>Hrs</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs</b>
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 <sup>10</sup>	2
CHEM 4231 Instrumental Analysis***	4	General Education	9
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>17</b>
<b>Senior Year - Fall Semester</b>	<b>Hrs</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs</b>
BIOL 3410 Forensic Science	3	BIOL 4514 Molecular Biology	3
Major CHEM Elective***#	3	CHEM 4531 Physical Chemistry I*** or CHEM 4532 Physical Chemistry II***	4
General Education	3	CJ 4302 Criminal Evidence	3
Free Choice Electives##	6	Free Choice Electives##	3-6
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>13-16</b>

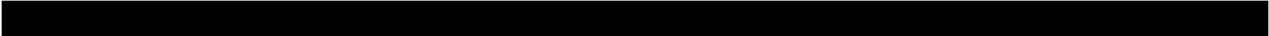
**Forensic Chemistry Major, B.S. Degree - 120 hours**

- \*Enrollment in CHEM 1131 and MATH 1151 is dependent upon one or more of the following: math placement level, high school math courses completed, ACT/SAT standardized test scores, and/or a possible mathematics placement examination.
- +A grade of C or better is required to enroll in future required major classes. See Undergraduate Catalog for more details.
- \*\*AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- \*\*\*Upper level chemistry courses offered variably. Check school for actual offerings.
- #The program advisors recommend the following classes to fulfill the 3 hours of major CHEM electives and the 10-12 hours of free choice electives: CHEM 4313, 4421, 4431, 4531, 4532, and 4910.
- ##The number of free choice electives required to reach the minimum hours required for a degree (120) will depend on selections made in the general education for technology and in the major for the PHYS sequence.
- <sup>10</sup>This course fulfills Competency 10 - Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA . . . they earn 45 credit hours but . . . 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](mailto:testingservices@ucmo.edu)) for more information.

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



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



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

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

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

- \*This class is only offered during the semester indicated.
- \*\*See the 2015 Undergraduate Catalog for the list of approved Major Option 2 Electives.
- \*\*\*GRAP 3016 Experiences in Graphic Production may be completed in a Summer, Fall or Spring Semester. It should be taken during the Sophomore or Junior years. Contact the instructor for permission to enroll.
- #SOT 3022 may be completed in a Summer, Fall or Spring Semester. It should be taken during the Junior or Senior years. Contact the instructor for permission to enroll.
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**Graphic Technologies Major, B.S. Degree, Option 3: Web Media Technology (43-03599)**

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

<b>Freshman Year - Fall Semester</b>	<b>Hrs</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs</b>
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	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>16</b>		

<b>Sophomore Year - Fall Semester</b>	<b>Hrs</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs</b>
GRAP 2032 Pre-Media Applications - Adobe InDesign	3	ART 2610 Introduction to Graphic Design & Illustration	3
GRAP 2610 Principles of Web Media	3	GRAP 2035 Digital Workflow Applications	3
GRAP 3034 Lithographic Processes*	3	GRAP 2620 Web Media Applications	3
GRAP 3040 Screen & Specialty Printing	3	Major Option 3 Elective**	3
General Education	3	General Education	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>

<b>During Sophomore or Junior Year</b>	<b>Hrs</b>
GRAP 3016 Experiences in Graphic Production***	1
<b>Semester Total</b>	<b>1</b>

<b>Junior Year - Fall Semester</b>	<b>Hrs</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs</b>
GRAP 2630 Web Authoring	3	GRAP 2670 Web Media Animation	3
GRAP 3024 Flexographic Processes*	3	GRAP 3030 Digital Output Technologies	3
MGT 3315 Management of Organizations or INDM 4250 Project Management	3	GRAP 3045 Materials and Methods in Graphic Technologies*	3
General Education Science with Laboratory	4	GRAP 3051 Graphic Technologies Management*	3
General Education	3	General Education	3
<b>Semester Total</b>	<b>16</b>	<b>Semester Total</b>	<b>15</b>

<b>Between Junior &amp; Senior Year - Summer Semester</b>	<b>Hrs</b>
SOT 3022 Internship in Technology#	1
<b>Semester Total</b>	<b>1</b>

<b>Senior Year - Fall Semester</b>	<b>Hrs</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs</b>
GRAP 4038 Color Management*	3	GRAP 3043 Finishing & Distribution*	3
GRAP 4053 Production Analysis* <sup>10</sup>	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	<b>Semester Total</b>	<b>13</b>
<b>Semester Total</b>	<b>13</b>		

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

- \*This class is only offered during the semester indicated.
- \*\*See the 2015 Undergraduate Catalog for the list of approved Major Option 3 Electives.
- \*\*\*GRAP 3016 Experiences in Graphic Production may be completed in a Summer, Fall or Spring Semester. It should be taken during the Sophomore or Junior years. Contact the instructor for permission to enroll.
- #SOT 3022 may be completed in a Summer, Fall or Spring Semester. It should be taken during the Junior or Senior years. Contact the instructor for permission to enroll.
- <sup>10</sup>This course fulfills Competency 10 - Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA . . . they earn 45 credit hours but . . . 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](mailto:testingservices@ucmo.edu)) for more information.

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

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<b>Freshman Year - Fall Semester</b>	<b>Hrs</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs</b>
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	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>16</b>		

<b>Sophomore Year - Fall Semester</b>	<b>Hrs</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs</b>
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	<b>Semester Total</b>	<b>16</b>
<b>Semester Total</b>	<b>15</b>		

<b>During Sophomore or Junior Year</b>	<b>Hrs</b>
GRAP 3016 Experiences in Graphic Production**	1
<b>Semester Total</b>	<b>1</b>

<b>Junior Year - Fall Semester</b>	<b>Hrs</b>
GRAP 3024 Flexographic Processes*	3
GRAP 3040 Screen & Specialty Printing	3
Major Option 4 Elective**	3
General Education	6
<b>Semester Total</b>	<b>15</b>

<b>Junior Year - Spring Semester</b>	<b>Hrs</b>
GRAP 3030 Digital Output Technologies	3
GRAP 3045 Materials and Methods in Graphic Technologies* <sup>10</sup>	3
<b>Semester Total</b>	<b>6</b>

<b>Between Junior &amp; Senior Year - Summer Semester</b>	<b>Hrs</b>
SOT 3022 Internship in Technology#	1
<b>Semester Total</b>	<b>1</b>

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

- \*This class is only offered during the semester indicated.
- \*\*GRAP 3016 Experiences in Graphic Production may be completed in a Summer, Fall or Spring Semester. It should be taken during the Sophomore or Junior years. Contact the instructor for permission to enroll.
- \*\*\*See the 2015 Undergraduate Catalog for the list of approved Major Option 4 Electives.
- #SOT 3022 may be completed in a Summer, Fall or Spring Semester. It should be taken during the Junior or Senior years. Contact the instructor for permission to enroll.
- <sup>10</sup>This course fulfills Competency 10 - Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA. They earn 45 credit hours but 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](mailto:testingservices@ucmo.edu)) for more information.

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

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

<b>Freshman Year - Fall Semester</b>	<b>Hrs</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs</b>
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	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>16</b>		

<b>Sophomore Year - Fall Semester</b>	<b>Hrs</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs</b>
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
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>

<b>During Sophomore or Junior Year</b>	<b>Hrs</b>
GRAP 3016 Experiences in Graphic Production***	1
<b>Semester Total</b>	<b>1</b>

<b>Junior Year - Fall Semester</b>	<b>Hrs</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs</b>
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	PHOT Major Option 5 Elective**	3
General Education	3	General Education	3
<b>Semester Total</b>	<b>16</b>	<b>Semester Total</b>	<b>15</b>

<b>Between Junior &amp; Senior Year - Summer Semester</b>	<b>Hrs</b>
SOT 3022 Internship in Technology#	1
<b>Semester Total</b>	<b>1</b>

<b>Senior Year - Fall Semester</b>	<b>Hrs</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs</b>
GRAP 4038 Color Management*	3	GRAP 3043 Finishing & Distribution*	3
GRAP 4053 Production Analysis* <sup>10</sup>	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	<b>Semester Total</b>	<b>13</b>
<b>Semester Total</b>	<b>13</b>		

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

- \*This class is only offered during the semester indicated.
- \*\*See your faculty mentor for advice on selecting the 21 hours of PHOT major option electives. Choose PHOT 1210, 1211, 2210 and 2250 for 10 of the 21 major option 5 electives to complete a minor in Photography.
- \*\*\*GRAP 3016 Experiences in Graphic Production may be completed in a Summer, Fall or Spring Semester. It should be taken during the Sophomore or Junior years. Contact the instructor for permission to enroll.
- #SOT 3022 may be completed in a Summer, Fall or Spring Semester. It should be taken during the Junior or Senior years. Contact the instructor for permission to enroll.
- <sup>10</sup>This course fulfills Competency 10 - Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA . . . they earn 45 credit hours but . . . 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](mailto:testingservices@ucmo.edu)) for more information.





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

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<b>Freshman Year - Fall Semester</b>	<b>Hrs</b>	<b>Freshman Year - Spring Semester</b>
CHEM 1104 Introduction to the Sciences: Chemistry (GE)#	4	HED 1100 Personal Health#
ENGL 1020 Composition I (GE)#	3	
HED 1010 Introduction to Health Studies#	1	
SOC 1800 General Sociology (GE)#	3	
General Education Managing Information	2-3	
<b>Semester Total</b>	<b>13-14</b>	
AE 1400 University Foundations*	1	

**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.
- <sup>10</sup>This course fulfills Competency 10 - Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA . . . they earn 45 credit hours but 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](mailto:testingservices@ucmo.edu)) for more information.

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

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

**History Major, B.A. Degree - 120 hours**

- A grade of C or better is required in all major courses.
- \*Must earn a 2.50 combined GPA in the following courses: HIST 1350, 1351, 2400, 2401, and 2402. Students must apply for admission to the major program after completion of the five survey courses. See department (Wood 136, 660-543-4404).
- \*\*The 12 hour of modern foreign language must be from the same language.
- \*\*\*AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- #A minimum of three hours of world history must be non-western history, or HIST 4452 or HIST 4453.
- ##HIST 4500 Senior Capstone in History is usually only offered in the spring semesters and has SOSC 3010 Writing in the Social Sciences as a prerequisite. Students may not take SOSC 3010 and HIST 4500 in the same semester.
- <sup>10</sup>This course fulfills Competency 10 - Integration in the General Education program. The hours count in the major, not in general education.
- This major does not build in the minimum number (30) of upper-level credit hours required for graduation. Be sure to include upper-level choices (3000/4000) in your major electives, general education, and/or free choice electives.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA . . . they earn 45 credit hours but . . .



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

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

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

- \*Students in this major must complete eight preadmission courses with a grade of C or higher and must obtain a 2.25 cumulative GPA and a 2.25 in these specific courses, for admission to the degree program. These courses are recommended for completion during the freshman and sophomore years. These courses are indicated with an (\*).
- \*\*AE or BADM 1400 (1 hr.) is highly recommended for academic success. AE or BADM 1400 counts as a free choice elective. If AE or BADM 1400 is chosen, 1 less hour of free choice electives will be needed.
- \*\*\*A cumulative GPA of 2.50, 21 hours earned at UCM, and 60 hours earned overall is required for enrollment in the Internship (HM 3880).
- **#All Hospitality Management majors must enroll in the IBE Block.** This includes the IBE Practicum (MGT 3385, MKT



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

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on-1.4y

<b>Freshman Year - Fall Semester</b>	<b>Hrs</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs</b>
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 Tech. Writing (GE)	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>
AE 1400 University Foundations*	1		
<b>Sophomore Year - Fall Semester</b>	<b>Hrs</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs</b>
ART 2300 Interior Design Drafting II	3	ART 1800 Ideas & the Visual Arts (GE)	3
ART 2305 Interior Design Presentation Techniques	3	ART 2300 Interior Design Studio II	3
ART 2320 Building Systems & Sustainability	3	ART 2350 Interior Design Building Codes and Regulations	3
ART 2340 Materials, Methods, and Specifications	3	ART 2360 Interior Design Environmental Systems	3
General Education	3	ART Major Elective**	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>
<b>Junior Year - Fall Semester</b>	<b>Hrs</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs</b>
ART 1835 Global Arts and Culture (GE)	3	ART 3320 Professional Practice for Interior Design I	1
ART 3330 Interior Design Studio III	3	ART 3340 Interior Detailing & Furniture Design	3
ART 3350 Construction Documentation for Interior Design	3	ART 3850 History of Furniture and Interiors II	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	<b>Semester Total</b>	<b>16</b>
<b>Semester Total</b>	<b>18</b>		
<b>Junior Year - Summer Semester</b>	<b>Hrs</b>		
ART 4310 Interior Design Internship	1		
<b>Semester Total</b>	<b>1</b>		
<b>Senior Year - Fall Semester</b>	<b>Hrs</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs</b>
ART 4221 Art Theory and Criticism	3	ART 4320 Professional Practice for Interior Designers II	2
ART 4350 Interior Design Thesis I	3	ART 4360 Interior Design Thesis II <sup>10</sup>	3
ART 4850 20th Century Art & Architecture	3	General Education	9
General Education	6	<b>Semester Total</b>	<b>14</b>
<b>Semester Total</b>	<b>15</b>		

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

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

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

<b>Freshman Year - Fall Semester</b>	<b>Hrs</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs</b>
ENGL 1020 Composition I (GE)	3	ENGL 1030 Composition II or CTE 3060 Tech. 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
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>
AE 1400 University Foundations**	1		

<b>Sophomore Year - Fall Semester</b>	<b>Hrs</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs</b>
POLS 2530 World Politics (GE)	3	Free Choice Electives## (Suggested Overseas Study, Internship or Service Learning experience)	15
Major Elective in a Geographic Specialization***	3	<b>Semester Total</b>	<b>15</b>
Modern Language Requirement*	3		
General Education	6		
<b>Semester Total</b>	<b>15</b>		

**Junior Year - Fall Semester**  
REL 3010 Religion and Poverty

3  
3  
3  
6  
15

**Sop64.8 6 Td[Sop3J]/T11 1 Tf0.031 Tw (-)Tj/T13 1 Tf(Spring Semester)Tj ( )Tj0.031 Tw 0 -1.2 TD[REL 3010 Religion and Poverty]Tj**  
**General Education**

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

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



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

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

**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 (\*).

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

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

**Freshman Year - Fall Semester**

CIS 1600 Business Information Management (GE)\*  
 ECON 1010 Principles of Macroeconomics (GE)\*  
 ENGL 1020 Composition I (GE)  
 MATH 1111 College Algebra (GE)\*  
 General Education

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

- \*Students in this major must complete eight preadmission courses with a grade of C or higher and must obtain a 2.25 cumulative GPA and a 2.25 in these specific courses, for admission to the degree program. These courses are recommended for completion during the freshman and sophomore years.
- \*\*MKT 1400 is a free choice elective and is highly recommended for academic success. If MKT 1400 is chosen, 1 less hour of free choice electives will be needed.
- \*\*\*This major requires 15 credit hours of Marketing electives. Marketing elective classes available are: MKT 1400, MKT 3410, MKT 3420, MKT 3435, MKT 3450, MKT 3460, MKT 4420, MKT 4430, MKT 4440, MKT 4450, MKT 4454, and 4480. See Department Chairperson for advice on major electives.
- #Marketing majors may choose to enroll in the IBE Block. This includes the IBE Practicum (MGT 3385, MKT 3485 or CIS 3685) concurrently with the IBE sections of MGT 3315, MKT 3405 and CIS 3630. This is typically done during the fall of the junior year. Prerequisites for the IBE block include: ACCT 2101, CIS 1600, and junior standing. If this option is chosen, the 3 hours of the practicum class will count towards the Marketing Major Electives hours.
- <sup>10</sup>This course fulfills Competency 10 - Integration in the General Education program. The hours count in the major, not in general education.
- A 2.25 cumulative GPA is required for graduation in this major.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA . . . they earn 45 credit hours but . . . 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](mailto:testingservices@ucmo.edu)) for more information.

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

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

<b>Freshman Year - Fall Semester</b>	<b>Hrs</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs</b>
CS 1100 Computer Programming I	3	ENGL 1030 Composition II or CTE 3060 Tech. 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
<b>Semester Total</b>	<b>14</b>	<b>Semester Total</b>	<b>143</b>
AE 1400 University Foundations*	1		<b>ENGL 1030 Composition</b>

**Mathematics Major, B.S. Degree - 120 hours**

- \*AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- \*\*This class is only offered during the semester indicated.
- \*\*\*This major requires nine hours of Major Electives. See the 2015 Undergraduate Catalog for the list of choices.
- <sup>10</sup>This course fulfills Competency 10 - Integration in the General Education program. The hours count in the major, not in general education.
- This major does not build in the minimum number (30) of upper-level credit hours required for graduation. Be sure to include upper-level choices (3000/4000) in your major electives, general education, and/or free choice electives.
- 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 . . . they earn 45 credit hours but . . . 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](mailto:testingservices@ucmo.edu)) for more information.

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

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

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

**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.
- <sup>10</sup>This course fulfills Competency 10 - Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA . . . they earn 45 credit hours but 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](mailto:testingservices@ucmo.edu)) for more information.

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

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

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

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

<b>Freshman Year - Fall Semester</b>	<b>Hrs</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs</b>
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 Tech. Writing (GE)	3
MATH 1111 College Algebra (GE)	3	General Education	3
<b>Semester Total</b>	<b>15-16</b>	<b>Semester Total</b>	<b>17</b>
<b>Sophomore Year - Fall Semester</b>	<b>Hrs</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs</b>
BIOL 3402 Human Physiology	5	ACST 1300 Basic Statistics (GE)** or PSY 4520 Statistics for Behavioral Sciences	3
BIOL 3511 Genetics	4	BIOL 3611 Microbiology	4
CHEM 3341 Organic Chemistry I#	4	BIOL 4514 Molecular Biology	3
General Education	3	General Education	6
<b>Semester Total</b>	<b>16</b>	<b>Semester Total</b>	<b>16</b>
<b>Junior Year - Fall Semester</b>	<b>Hrs</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs</b>
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 hours needed if ACST 1300 is not chosen above)	6-9
General Education	8	<b>Semester Total</b>	<b>12-15</b>
<b>Semester Total</b>	<b>16</b>		
<b>Senior Year - Summer Semester</b>	<b>Hrs</b>		
BIOL 4015 Clinical Immunohematology	4		
BIOL 4016 Clinical Urinalysis	2		
<b>Semester Total</b>	<b>6</b>		
<b>Senior Year - Fall Semester</b>	<b>Hrs</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs</b>
BIOL 4017 Clinical Microbiology	7	BIOL 4019 Clinical Biochemistry	7
BIOL 4018 Clinical Immunology	5	BIOL 4020 Clinical Hematology	4
<b>Semester Total</b>	<b>12</b>	BIOL 4021 Clinical Special Topics <sup>10</sup>	1
		<b>Semester Total</b>	<b>12</b>

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

- \*BIOL 1112 is recommended over BIOL 1110.
- #A grade of C or better is required to enroll in future major coursework. See the Undergraduate Catalog for more information.
- \*\*If ACST 1300 is chosen, it will count towards both the major and in general education.
- +BIOL 4516 is only taught in the spring semesters of even numbered years. Adjust your schedule accordingly.
- ++Total degree hours vary based on course choices made in the major (BIOL 1110 or 1112) and possible overlap with general education (ACST 1300 chosen over PSY 4520).
- <sup>10</sup>This course fulfills Competency 10 - Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA . . . they earn 45 credit hours but 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](mailto:testingservices@ucmo.edu)) for more information.

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

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

<b>Freshman Year - Fall Semester</b>	<b>Hrs</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs</b>
ENGL 1020 <i>Composition I (GE)</i>	3	General Education BIOL, CHEM, EASC, PHYS course w/ lab	4
POLS 1510 <i>American Government (GE)</i>	3	ENGL 1030 <i>Composition II or CTE 3060 Tech. Writing (GE)</i>	3
STCH 1003 <i>Great Concepts in Science (GE)</i>	3	General Education*	9
General Education Math	3	<b>Semester Total</b>	<b>16</b>
General Education*	3		
<b>Semester Total</b>	<b>15</b>		

<b>Sophomore Year - Fall Semester</b>	<b>Hrs</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs</b>
EDFL 2100 <i>Introduction to the Teaching Profession</i>	3	EDFL 2250 <i>Introduction to English Language Learners and Culturally Responsive Pedagogy</i>	2
FLDX 2150 <i>Introductory Field Experience</i>	1	STCH 3020 <i>Science &amp; Engineering Practices</i>	3
EDFL 2240 <i>Educational Psychology (GE)</i>	3	Complementing Subject Area**	6
EDSP 2100 <i>Education of Exceptional Child</i>	3	Any BIOL, CHEM, EASC, PHYS Courses	6
HIST 1350 or 1351 <i>History of the United States (GE)</i>	3	<b>Semester Total</b>	<b>17</b>
General Education*	3	<i>(Successfully complete MoGEA exam by end of this semester)</i>	
<b>Semester Total</b>	<b>16</b>		

<b>Junior Year - Fall Semester</b>	<b>Hrs</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs</b>
Any BIOL, CHEM, EASC, PHYS Course	4	Any BIOL, CHEM, EASC, PHYS Course	
EDFL 3230 <i>Introduction to Language, Literacy and Literature in the Middle Level Classroom, Block One (fall only)</i>	4	EDFL 3240 <i>Application of Content Area Literacy for Middle Level Learners, Block Two (spring only)</i>	
EDFL 4130 <i>Fundamentals of Middle Level Education (fall only)</i>	4	EDFL 4135 <i>Middle Level Curriculum &amp; Assessment (spring only)</i>	
Complementing Subject Area**	3		
General Education*	3		
<b>Semester Total</b>	<b>16</b>	<b>16</b>	

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

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

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

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

<b>Freshman Year - Fall Semester</b>	<b>Hrs</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs</b>
<i>ENGL 1020 Composition I (GE)</i>	3	<i>ENGL 1030 Composition II</i>	3
<i>POLS 1510 American Government (GE)</i>	3	HIST 1350 or 1351 History of the United States (GE)	3
<i>General Education Math</i>	3	<i>General Education Science w/lab</i>	4
<i>General Education*</i>	6	<i>General Education*</i>	5
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>

<b>Sophomore Year - Fall Semester</b>	<b>Hrs</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs</b>
EDFL 2100 Introduction to the Teaching Profession	3	EDFL 2250 Introduction to English Language Learners and Culturally Responsive Pedagogy	2
FLDX 2150 Introductory Field Experience	1	ENGL 2830 Literature for Adolescents (spring only)	3
EDFL 2240 Educational Psychology (GE)	3	Complementing Subject Area**	6
EDSP 2100 Education of Exceptional Child	3	Language Arts Electives in ENGL***	4
ENGL 2010, 2020, 2200, 2205, 2210, 2215, or 2220 (GE)	3	<b>Semester Total</b>	<b>15</b>
Complementing Subject Area**	3	<i>(Successfully complete MoGEA exam by end of this semester)</i>	
<b>Semester Total</b>	<b>16</b>		

**Junior Year - Fall Semester**  
EDFL 3230 Introduction to Language, Literacy and Literature

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

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



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

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

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

- \*Math subject area courses should be taken in the order listed to graduate in four years.
- \*\*Students should work with their academic advisor early for selection of general education courses as most Subject Areas and Complementary Subject Areas have some overlap with general education coursework. This may help to reduce required hours and/or increase free choice elective hours. Degree hours must total 120, but may require more depending on areas chosen.
- \*\*\*Middle school majors must choose a complementing subject area. The subject areas are: Business Education, Cross-Categorical Special Education, Engineering and Technology, General Science, Language Arts, Math, Social Science, and Speech/Theatre. Each subject area is 17-24 credit hours. This plan is based on a 18 credit-hour complementing subject area.
- #The courses listed for this semester constitute the professional education (student teaching) block. The student should not take any other courses during this semester.
-

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

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

**Freshman Year** Fall Semester**Middle School Education Major - Social Science Subject Area, B.S. in Ed. Degree - 120 hours min.**

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

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

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

<b>Freshman Year - Fall Semester</b>	<b>Hrs</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs</b>
ENGL 1020 Composition I (GE)	3	ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE)	3
Intermediate I (FREN, GER, or SPAN)*+	3	Intermediate II (FREN, GER, or SPAN)*	3
General Education	9	General Education	9
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>
AE 1400 University Foundations**	1		

<b>Sophomore Year - Fall Semester</b>	<b>Hrs</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs</b>
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	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>15</b>		

<b>Junior Year - Fall Semester</b>	<b>Hrs</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs</b>
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	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>15</b>		

<b>Senior Year - Fall Semester</b>	<b>Hrs</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs</b>
4000 level course (FREN, GER, or SPAN)*	3	GISL 4244 Cross-Cultural Cinema <sup>10</sup>	3
Free Choice Electives	12	4000 level course (FREN, GER, or SPAN)*	3
<b>Semester Total</b>	<b>15</b>	Free Choice Electives (6 hrs. will be validated language credit) <sup>9</sup>	9
		<b>Semester Total</b>	<b>15</b>

**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.
- <sup>10</sup>This course fulfills Competency 10 - Integration in the General Education program. The hours count in the major, not in general education.
- ARE YOU PLANNING TO TEACH A MODERN LANGUAGE? If so choose, Area 2 - Professional Applications of the Modern Languages major with the Education Concentration (K-12 Certification).
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA . . . they earn 45 credit hours but . . . 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](mailto:testingservices@ucmo.edu)) for more information.

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

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

Freshman Year - Fall Semester	<b>Hrs</b>	Freshman Year - Spring Semester	<b>Hrs</b>
ENGL 1020 Composition I (GE)	3	ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE)	3
Intermediate I (FREN, GER, or SPAN)*+	3	Intermediate II (FREN, GER, or SPAN)*	3
General Education	9	General Education	9
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>
AE 1400 University Foundations**	1		

<b>Sophomore Year - Fall Semester</b>	<b>Hrs</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs</b>
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
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>

<b>Junior Year - Fall Semester</b>	<b>Hrs</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs</b>
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	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>15</b>		

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

**Senior Year - Fall Semester**  
 Major Marketing Concentration Elective  
 MKT 3480 Consumer Behavior  
 4000 level course (FREN, GER, or SPAN)\*

**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.
- <sup>10</sup>This course fulfills Competency 10 - Integration in the General Education program. The hours count in the major, not in general education.
- ARE YOU PLANNING TO TEACH A MODERN LANGUAGE? If so choose, Area 2 - Professional Applications of the Modern Languages major with the Education Concentration (K-12 Certification).
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA . . . they earn 45 credit hours but 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](mailto:testingservices@ucmo.edu)) for more information.



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

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

<b>Freshman Year - Fall Semester</b>	<b>Hrs</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs</b>
ENGL 1020 Composition I (GE)	3	ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE)	3
HM 1800 Introduction to Hospitality (fall only)	3	HM 2830 Hospitality Management Case Analysis***	1
Intermediate I (FREN, GER, or SPAN)*+	3	Intermediate II (FREN, GER, or SPAN)*	3
General Education	6	General Education	9
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>16</b>
AE 1400 University Foundations**	1		

<b>Sophomore Year - Fall Semester</b>	<b>Hrs</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs</b>
ACCT 2101 Principles of Financial Accounting	3	HM 2830 Hospitality Management Case Analysis***	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 (COMM 1000 or 1050 recommended)#	6	<b>Semester Total</b>	<b>13</b>
<b>Semester Total</b>	<b>15</b>		

<b>Junior Year - Fall Semester</b>	<b>Hrs</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs</b>
HM 3800 Lodging Management	3	HM 3825 Events Management	3
MGT 3325 Business Communication#	3	MGT 3320 Systems, Teams, and Organizational Behavior	3
3000 level course (FREN, GER, or SPAN)*	3	4000 level courses (FREN, GER, or SPAN)*	3
3000/4000 level course (FREN, GER, or SPAN)*	3	General Education	3
General Education	3	Free Choice Electives	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>

<b>Summer between Junior &amp; Senior Year</b>	<b>Hrs</b>
HM 3810 Internship in Hotel and Restaurant Management	3
<b>Semester Total</b>	<b>3</b>

<b>Senior Year - Fall Semester</b>	<b>Hrs</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs</b>
HM 2830 Hospitality Management Case Analysis***	1	GISL 4244 Cross-Cultural Cinema <sup>10</sup>	3
HM 3844 Restaurant Operations	3	HRM 3920 Human Resource Management	3
4000 level course (FREN, GER, or SPAN)*	3	ML 4050 Language in the Professions/Translation	3
Free Choice Electives (validated language credit)+	6	4000 level courses (FREN, GER, or SPAN)*	3
<b>Semester Total</b>	<b>13</b>	Free Choice Elective	3
		<b>Semester Total</b>	<b>15</b>

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

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

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

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your

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

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any



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

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

<b>Freshman Year - Fall Semester</b>	<b>Hrs</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs</b>
ENGL 1020 Composition I (GE)	3	ENGL 1030 Composition II or CTE 3060 Tech. 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
<b>Semester Total</b>	<b>14</b>	<b>Semester Total</b>	<b>3</b>
AE 1400 University Foundations***	1	<b>Semester Total</b>	<b>15</b>
<b>Sophomore Year - Fall Semester</b>	<b>Hrs</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs</b>
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
<b>Semester Total</b>	<b>16</b>	<b>Semester Total</b>	<b>16</b>
<b>Junior Year - Fall Semester</b>	<b>Hrs</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs</b>
MUS 1000 Recital Attendance	0	MUS 1000 Recital Attendance	0
MUS 3211 Music History to 1750*	3	MUS 3212 Music History 1750-Present (GE)*	3
Major Instrument or Voice, 3000 Level	1.5	Major Instrument or Voice, 3000 Level	1.5
Minor Coursework	6	Minor Coursework	6
General Education	6	General Education	3
<b>Semester Total</b>	<b>16.5</b>	<b>Semester Total</b>	<b>13.5</b>
<b>Senior Year - Fall Semester</b>	<b>Hrs</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs</b>
Major Instrument or Voice, 3000 Level	1.5	MUS 4000 <sup>10</sup> Special Projects, 4060 <sup>10</sup> Senior Recital,	
Elective in Music	3	4430 <sup>10</sup> Sem. in Music Technology, or 4514 <sup>10</sup> Piano	
Minor Coursework	3	Pedagogy IV - Seminar	2-3
Free Choice Electives	8	Major Instrument or Voice, 3000 Level	1.5
<b>Semester Total</b>	<b>15.5</b>	Minor Coursework	3
		Free Choice Electives	6-7
		<b>Semester Total</b>	<b>13.5</b>

**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.
- <sup>10</sup>This course fulfills Competency 10 - Integration in the General Education program. The hours count in the major, not in general education.
- This plan is based on a 21-hour minor.
- This major does not build in the minimum number (30) of upper-level credit hours required for graduation. Be sure to include 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 . . . they earn 45 credit hours but 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](mailto:testingervices@ucmo.edu)) for more information.

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

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

**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).
- <sup>10</sup>This course fulfills Competency 10 - Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA exam. Students who earn 45 credit hours but do not earn 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.

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

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any academics/catalogs) for a comp

**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.
-

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

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/](http://www.ucmo.edu/))

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

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

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

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

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

<b>Freshman Year - Fall Semester</b>	<b>Hrs</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs</b>
ENGL 1020 Composition I (GE)	3	ENGL 1030 Composition II or CTE 3060 Tech. 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		Major Instrument or Voice, 1000 Level	1
(Choose from CS 1100, ET 1010, or ET 1020)	3-4	Major Large Instrumental or Vocal Ensemble	1
Major Instrument or Voice, 1000 Level	1	(Piano Class II)***++	(1)
Major Large Instrumental or Vocal Ensemble	1	General Education	3
(Piano Class I)***++	(1)	<b>Semester Total</b>	<b>15-16</b>
<b>Semester Total</b>	<b>12.5-17.5</b>		

**Sophomore Year - Fall Semester**  
 ECON 1010 Principles of Macroeconomics (GE)  
 MUS 1000 Recital Attendance  
 MUS 1112 Theory II\*  
 MUS 1122 Aural Training II\*  
 MUS 2400 Sound Reinforcement & Music Production\*  
 MUS 2420 Technology Practicum  
 Major Instrument or Voice, 1000 Level  
 Major Large Instrumental or Vocal Ensemble

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

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

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

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<b>Freshman Year - Fall Semester</b>		<b>Hrs</b>	<b>Freshman Year - Spring Semester</b>		<b>Hrs</b>
ENGL 1020 Composition I (GE)		3	ENGL 1030 Composition II or CTE 3060 Tech. 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
<b>Semester Total</b>		<b>16</b>	Major Large Instrumental or Vocal Ensemble		1
			<b>Semester Total</b>		<b>15</b>

<b>Sophomore Year - Fall Semester</b>		<b>Hrs</b>	<b>Sophomore Year - Spring Semester</b>		<b>Hrs</b>
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	<b>Semester Total</b>		<b>15</b>
General Education		3			
<b>Semester Total</b>		<b>16</b>			

<b>Junior Year - Fall Semester</b>		<b>Hrs</b>	<b>Junior Year - Spring Semester</b>		<b>Hrs</b>
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 1750*		3	MUS 3212 Music History 1750-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
<b>Semester Total</b>		<b>16</b>	<b>Semester Total</b>		<b>15</b>

**Senior Year - Fall Semester**  
 MUS 1000 Recital Attendance  
 MUS 3510 Piano II

**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.
- <sup>10</sup>This course fulfills Competency 10 - Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA . . . they earn 45 credit hours but . . . 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](mailto:testingservices@ucmo.edu)) for more information.

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

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<b>Freshman Year - Fall Semester</b>	<b>Hrs</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs</b>
ENGL 1020 Composition I (GE)	3	ENGL 1030 Composition II or CTE 3060 Tech. 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
<b>Semester Total</b>	<b>16</b>	Major Large Instrumental or Vocal Ensemble	1
		<b>Semester Total</b>	<b>15</b>
<b>Sophomore Year - Fall Semester</b>	<b>Hrs</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs</b>
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	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>17</b>		
<b>Junior Year - Fall Semester</b>	<b>Hrs</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs</b>
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 1750-Present (GE)*	3
MUS 3211 Music History to 1750*	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
<b>Semester Total</b>	<b>17</b>	<b>Semester Total</b>	<b>14</b>
<b>Senior Year - Fall Semester</b>	<b>Hrs</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs</b>
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 <sup>10</sup>	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	<b>Semester Total</b>	<b>12</b>
<b>Semester Total</b>	<b>16</b>		

**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.
- <sup>10</sup>This course fulfills Competency 10 - Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA . . . they earn 45 credit hours but . . . 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](mailto:testingservices@ucmo.edu)) for more information.



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

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<b>Freshman Year - Fall Semester</b>		<b>Hrs</b>	<b>Freshman Year - Spring Semester</b>		<b>Hrs</b>
ENGL 1020 Composition I (GE)		3	ENGL 1030 Composition II or CTE 3060 Tech. 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
<b>Semester Total</b>		<b>15</b>	Major Large Instrument or Vocal Ensemble		1
			<b>Semester Total</b>		<b>15</b>

<b>Sophomore Year - Fall Semester</b>		<b>Hrs</b>	<b>Sophomore Year - Spring Semester</b>		<b>Hrs</b>
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
<b>Semester Total</b>		<b>15</b>	<b>Semester Total</b>		<b>15</b>

<b>Junior Year - Fall Semester</b>		<b>Hrs</b>	<b>Junior Year - Spring Semester</b>		<b>Hrs</b>
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		3
MUS 2122 Aural Training IV*		1	MUS 3212 Music History 1750-Present (GE)*		3
MUS 2515 Piano Accompanying		2	MUS 3510 Piano II		1.5
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	<b>Semester Total</b>		<b>16</b>
<b>Semester Total</b>		<b>16.5</b>			

<b>Senior Year - Fall Semester</b>		<b>Hrs</b>	<b>Senior Year - Spring Semester</b>		<b>Hrs</b>
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 1750*		3	MUS 3510 Piano II		3
MUS 3510 Piano II		3	MUS 4060 Senior Recital <sup>10</sup>		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
<b>Semester Total</b>		<b>15-18</b>	<b>Semester Total</b>		<b>15</b>

**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.
- <sup>10</sup>This course fulfills Competency 10 - Integration in the General Education program. The hours count in the major, not in general education.
- This guide is based on entrance during odd numbered years (2013, 2015, etc.). The suggested order of courses will vary for students beginning in even numbered years.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA . . . they earn 45 credit hours but . . . 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](mailto:testingservices@ucmo.edu)) for more information.

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

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

**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.
- <sup>10</sup>This course fulfills Competency 10 - Integration in the General Education program. The hours count in the major, not in general education.
- This guide is based on entrance during even numbered years (2014, 2016, etc.). The suggested order of courses will vary for students beginning in odd numbered years.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA . . . they earn 45 credit hours but . . . earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM.

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

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

**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).

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

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

<b>Freshman Year - Fall Semester</b>		<b>Freshman Year - Spring Semester</b>	
	<b>Hrs</b>		<b>Hrs</b>
ENGL 1020 Composition I (GE)	3	ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE)	3
FREN 1201 Elementary French I or GER 1301 Elementary 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
		Major Large Vocal Ensemble (Piano Class II)***	(1)
<b>Semester Total</b>	<b>14-15</b>	<b>Semester Total</b>	<b>15-16</b>

<b>Sophomore Year - Fall Semester</b>		<b>Sophomore Year - Spring Semester</b>	
	<b>Hrs</b>		<b>Hrs</b>
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 (Piano Class IV)***	(1)
Major Large Vocal Ensemble (Piano Class III)***	(1)	General Education	6
General Education	6		
<b>Semester Total</b>	<b>17-18</b>	<b>Semester Total</b>	<b>15-16</b>

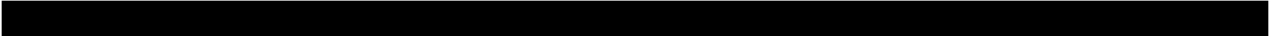
<b>Junior Year - Fall Semester</b>		<b>Junior Year - Spring Semester</b>	
	<b>Hrs</b>		<b>Hrs</b>
MUS 1000 Recital Attendance	0	MUS 1000 Recital Attendance	0
MUS 2112 Theory IV**	3	MUS 1225 Music of the World's Cultures (GE)	3
MUS 2122 Aural Training IV**	1	MUS 1615 Opera Theatre**	2
MUS 3211 Music History to 1750**	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
<b>Semester Total</b>	<b>14</b>	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
		<b>Semester Total</b>	<b>14-15</b>

<b>Senior Year - Fall Semester</b>		<b>Senior Year - Spring Semester</b>	
	<b>Hrs</b>		<b>Hrs</b>
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 <sup>10</sup>	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	<b>Semester Total</b>	<b>14-17</b>
General Education	3		
<b>Semester Total</b>	<b>16</b>		

**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).
- <sup>10</sup>This course fulfills Competency 10 - Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA. They earn 45 credit hours but 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](mailto:testingservices@ucmo.edu)) for more information.

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



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

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://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>	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
<i>General Education MATH</i>	(1)
<b>Semester Total</b>	<b>14-15</b>

**Freshman Year - Spring Semester**

<i>ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE)</i>	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
<i>General Education Science with Laboratory</i>	(1)
<b>Semester Total</b>	<b>16-17</b>

**Sophomore Year - Fall Semester**

EDFL 2100 Introduction to the Teaching Profession	Hrs
FLDX 2150 Introductory Field Experience	3
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
<b>Semester Total</b>	<b>17.5-18.5</b>

**Sophomore Year - Spring Semester**

EDFL 2240 Educational Psychology	Hrs
EDSP 2100 Education of the Exceptional Child	3
MUS 1000 Recital Attendance	3
MUS 2111 Theory III*	0
MUS 2121 Aural Training III*	3
<i>POLS 1510 American Government (GE)</i>	1
Major Large Instrumental Ensemble	3
Major Instrument, 1000 Level (Piano)	1
General Education Communication	(1)
<b>Semester Total</b>	<b>18-19</b>

*(Successfully complete MoGEA exam by end of this semester)*

**Junior Year - Fall Semester**

EDFL 2250 Introduction to English Language Learners and Culturally Responsive Pedagogy	Hrs
MUS 1000 Recital Attendance	2
MUS 1410, 1420, 1430, or 1440 (choose one)	0
MUS 2112 Theory IV*	.5
MUS 2122 Aural Training IV*	3
MUS 3211 Music History to 1750*	1
MUS 3308 Marching Band Techniques*	3
PSY 4230 Psychology of Adolescence (GE)	1
Instrument Techniques Class**	3
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)	0-3
<b>Semester Total</b>	<b>17-20</b>

**Junior Year - Spring Semester**

FLDX 3000 Field Experience in the Content Area#	Hrs
MUS 1000 Recital Attendance	1
MUS 1225 Music of the World's Cultures (GE)	0
MUS 3212 Music History 1750-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
<b>Semester Total</b>	<b>20.5</b>

*(#These courses must be taken concurrently.)*

**Senior Year - Fall Semester**

EDFL 4210 Introduction to Content Area Literacy	Hrs
EDFL 4970 Secondary Teaching & Behavioral Management	2
FLDX 4970 Field Experience II in the Content Area	2
MUS 1000 Recital Attendance	1
MUS 3305 Methods of Teaching Elemen. School Music***	0
MUS 4381 Jazz Pedagogy* (fall only)	2
Instrument Techniques Class**	1
Major Instrument, 3000 Level	1.5
Major Large Instrumental Ensemble	1
General Education	5
<b>Semester Total</b>	<b>17.5</b>

**Senior Year - Spring Semester**

FLDX 4468 Student Teaching Secondary II	Hrs
FLDX 4495 Student Teaching Elementary I	4
MUS 4310 Methods of Teaching Music <sup>10</sup>	5
MUS 4350 Secondary Field Experience II	2
<b>Semester Total</b>	<b>12</b>

*(All non-student teaching coursework and tests must be successfully completed before this semester for enrollment in student teaching.)*

**Music Education Major (Instrumental Option - odd start year), B.M.E. Degree – 132.5-139.5 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.
- <sup>10</sup>This course fulfills Competency 10 - Integration in the General Education program. The hours count in the major, not in general education.
- The Missouri General Education Assessment (MoGEA) is an exam required of all Teacher Education students. Students must pass all areas of the MoGEA for admission to the Teacher Education Program. Students should take and successfully complete the MoGEA before completion of their sophomore year (60 earned hours). See your academic advisor to discuss the classes needed to prepare for the exam.
- Teacher Education candidates must take the appropriate Missouri Content Assessment (MoCA) for their certification area before they can student teach, and must pass it in order to be recommended for certification. Information and registration is available on the MEGA website: <http://www.mo.nesinc.com/>.
- See [www.ucmo.edu/cert](http://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 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

- +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).

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



This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual



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

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

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

- \*Select three hours from the following list: MUS 1055 Collegiate Choir, 3070 Chamber Singers, 3077 Vocal Jazz Ensemble, or

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

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**Freshman Year** - Fall Semester  
CTE 1300 Introduction to Engineering Design  
ENGL 1020 Composition I (GE)  
MATH 1111 College Algebra (GE)

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

- \*AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- <sup>10</sup>This course fulfills Competency 10 - Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA . . . they earn 45 credit hours but . . . 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](mailto:testingservices@ucmo.edu)) for more information.

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

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

<b>Freshman Year - Fall Semester</b>	<b>Hrs</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs</b>
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 Technical 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	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>14</b>		

<b>Sophomore Year - Fall Semester</b>	<b>Hrs</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs</b>
BIOL 3402 Human Physiology*	5	BIOL 3610 Microbiology*	3
D&N 3340 Nutrition*	3	NUR 2700 Professional Nursing Seminar**	1
NUR 2200 Culture & Sustainability in Health (GE)	3	Nursing Elective***	2-3
General Education	5-6	General Education	9
<b>Semester Total</b>	<b>16-17</b>	<b>Semester Total</b>	<b>15-16</b>

**-- ENTER NURSING PROGRAM --**

<b>Junior Year - Fall Semester</b>	<b>Hrs</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs</b>
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	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>16</b>		

**-- TO KANSAS CITY LAST TWO SEMESTERS --**

<b>Senior Year - Fall Semester</b>	<b>Hrs</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs</b>
NUR 4111 Socio-Economic Factors Impacting Health <sup>10</sup>	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	2	<b>Semester Total</b>	<b>13</b>
NUR 4511 Concepts of Adult & Older Adult Nrsng. II Pract.	3		
NUR 4512 Adv. Tech. & Pharmacological Nursing Apps.	2		
<b>Semester Total</b>	<b>16</b>		

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

- \*Nursing Program Prerequisite Courses (must be taken prior to admission to the program). Preference for admission into the Nursing major will be given to students taking ALL prerequisites at UCM.
- \*\*Lower Level Required Nursing Courses (must be taken prior to admission to the program).
- \*\*\*The nursing elective may be taken anytime after sophomore standing is achieved. One Nursing elective course is required from the following: NUR 2000 e-Health and Cyber Wellness; NUR 2020 Health: Women's Perspectives, NUR 4020 Grief and Loss; NUR 4030 Human Sexuality; NUR 4040 Nursing Informatics; NUR 4210 Wellness for U.S. Veteran and Military Families; NUR 4405 Aging of Self and Others; NUR 4810 Simulation Education & Facilitation; NUR 4820 Leadership & Management Concepts in Simulation; and NUR 4830 Simulation Education Capstone.
- #NUR 3200 may be taken prior to entry into the program or in the Nursing program.
- <sup>10</sup>This course fulfills Competency 10 - Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA . . . they earn 45 credit hours but 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](mailto:testingservices@ucmo.edu)) for more information.

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



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

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

- \*A grade of C or higher is required in these courses for graduation in this major.
- #SAFE 4990 Internship in Safety Sciences (3 hrs) is taken the summer after the junior year.

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



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



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

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<b>Freshman Year - Fall Semester</b>	<b>Hrs</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs</b>
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	General Education	8-9
PSY 1100 General Psychology (GE)*	3	<b>Semester Total</b>	<b>14-15</b>
General Education	3		
<b>Semester Total</b>	<b>15</b>		
AE 1400 University Foundations**	1		
<b>Sophomore Year - Fall Semester</b>	<b>Hrs</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs</b>
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
<b>Semester Total</b>	<b>16</b>	<b>Semester Total</b>	<b>15</b>
<b>Junior Year - Fall Semester</b>	<b>Hrs</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs</b>
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./VW, 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
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>17</b>
<b>Senior Year - Fall Semester</b>	<b>Hrs</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs</b>
MKT 3430 Professional Sales*	3	PE 4765 Internship* <sup>#10</sup>	6
PE 4860 Fitness Programming & Implementation*	3	Free Choice Electives	6
Free Choice Electives	9-10	<b>Semester Total</b>	<b>12</b>
<b>Semester Total</b>	<b>15-16</b>		

**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.
- <sup>10</sup>This course fulfills Competency 10 - Integration in the General Education program. The hours count in the major, not in general education.
- This major includes all 12 of the 18 credit hours required of the Marketing minor. Students interested in completing the Marketing minor would need to take MKT 3480 and 3 additional hours of minor electives from the list in the 2015 Undergraduate Catalog. Students must officially declare the minor on their Central Degree Audit to have the minor included in their degree program.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA . . . they earn 45 credit hours but 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](mailto:testingservices@ucmo.edu)) for more information.



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

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

Freshman Year - Fall Semester	Hrs	Freshman Year -
ENGL 1020 Composition I (GE)*	3	
MATH 1111 College Algebra (GE)*	3	
PE 1101 Introduction to Exercise Science*	3	
PE 1206 Fitness for a Global Community (GE)*	3	
PSY 1100 General Psychology (GE)*	3	
<b>Semester Total</b>	<b>15</b>	
AE 1400 University Foundations**	1	

**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.
- <sup>10</sup>This course fulfills Competency 10 - Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA . . . they earn 45 credit hours but . . . 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](mailto:testingservices@ucmo.edu)) for more information.

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

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

<b>Freshman Year - Fall Semester</b>	<b>Hrs</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs</b>
ENGL 1020 <i>Composition I (GE)</i>	3	CS 1100 <i>Computer Programming I</i>	3
MATH 1151 <i>Calculus &amp; Analytic Geometry I (GE)*</i>	5	ENGL 1030 <i>Composition II or CTE 3060 Tech. Writing (GE)</i>	3
POLS 1510 <i>American Government (GE)</i>	3	MATH 1152 <i>Calculus &amp; Analytic Geometry II</i>	5
General Education	5	PHYS 1101 <i>College Physics I or</i>	
<b>Semester Total</b>	<b>16</b>	PHYS 2121 <i>University Physics I</i>	4-5
AE 1400 <i>University Foundations**</i>	1	<b>Semester Total</b>	<b>15-16</b>

<b>Sophomore Year - Fall Semester</b>	<b>Hrs</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs</b>
CHEM 1131 <i>General Chemistry I (GE)*#</i>	5	BIOL 1005 <i>Introduction to Environmental Science (GE)</i>	3
EDFL 2100 <i>Introduction to the Teaching Profession</i>	3	CHEM 1132 <i>General Chemistry II</i>	5
FLDX 2150 <i>Introductory Field Experience</i>	1	EDFL 2240 <i>Educational Psychology (GE)</i>	3
HIST 1350 or 1351 <i>History of the United States (GE)</i>	3	EDSP 2100 <i>Education of the Exceptional Child</i>	3
PHYS 1102 <i>College Physics II or</i>		STCH 3020 <i>Science and Engineering Practices</i>	3
PHYS 2122 <i>University Physics II</i>	4-5	<b>Semester Total</b>	<b>17</b>
<b>Semester Total</b>	<b>16-17</b>	<i>(Successfully complete MoGEA exam by end of this semester)</i>	

<b>Junior Year - Fall Semester</b>	<b>Hrs</b>	<b>Junior Year - Spring Semester</b>	
BIOL 1110 <i>Principles of Biology or BIOL 1111 Plant Biology</i>	3-4	EASC 1004 <i>Introduction to Geology or</i>	
EDFL 2250 <i>Introduction to English Language Learners and Culturally Responsive Pedagogy</i>	2	EASC 1114 or GEOG 1114 <i>Weather &amp; Climate</i>	
EDFL 4210 <i>Introduction to Content Area Literacy</i>	2	EDFL 4212 <i>Literacy in the Disciplines I</i>	
PHYS 4411 <i>Thermodynamics or CHEM 4531 Physical Chemistry: Thermodynamics &amp; Kinetics</i>	3-4	EDFL 4973 <i>Classroom Management in Content Areas</i>	
General Education	6	EDFL 4974 <i>Content Specific Assessment</i>	
<b>Semester Total</b>	<b>16-18</b>	FLDX 3000 <i>Field Experience in the Content Area##</i>	
		PHYS 3080 <i>Advanced Physics Lab and PHYS 3511 Modern</i>	

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

- \*Enrollment in CHEM 1131 and MATH 1151 is dependent upon one or more of the following: math placement level, high school math courses completed, ACT/SAT standardized test scores, and/or a possible mathematics placement examination.
- \*\*AE 1400 is a free choice elective and is highly recommended for academic success. However, this program does not require any free choice electives.
- \*\*\*The courses listed for this semester constitute the professional education (student teaching) block. The student should not take any other courses during this semester.
- #A grade of C or better is required to enroll in CHEM 1132.
- ##These courses must be taken concurrently.
- ###Students must complete a minimum of 20 semester hours in PHYS to be certified to teach physics in Missouri. CHEM 4531 and 4532 are allowed to count towards these hours. The number of PHYS electives needed will depend on choices made in the major.
- <sup>10</sup>This course fulfills Competency 10 - Integration in the General Education program. The hours count in the major, not in general education.
- The Missouri General Education Assessment (MoGEA) is an exam required of all Teacher Education students. Students must pass all areas of the MoGEA for admission to the Teacher Education Program. Students should take and successfully complete the MoGEA before completion of their sophomore year (60 earned hours). See your academic advisor to discuss the classes needed to prepare for the exam.
- Teacher Education candidates must take the appropriate Missouri Content Assessment (MoCA) for their certification area before they can student teach, and must pass it in order to be recommended for certification. Information and registration is available on the MEGA website: <http://www.mo.nesinc.com/>.
- See [www.ucmo.edu/cert](http://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 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://www.ucmo.edu/academics/catalogs)) for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

**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



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



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

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

<b>Freshman Year - Fall Semester</b>	<b>Hrs</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs</b>
AVIA 1020 Aeronautics	2	COMM 1000 Public Speaking or COMM 1050 Fundamentals of Oral Communication Competency (GE)	3
AVIA 1310 FAA Private Requirements	3	ECON 1010 Principles of Macroeconomics (GE)	3
ENGL 1020 Composition I (GE)	3	ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE)	3
FIN 1820 Personal Finance (GE)	3	FLYA 1321 Private Flight B	1
FLYA 1320 Private Flight A	1	FLYA 3310 Commercial Flight A	1
MATH 1131 Applied Calculus (GE)	3	PHYS 1104 Introduction to the Sciences: Physics (GE)	4
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>
AE 1400 University Foundations*	1		

<b>Sophomore Year - Fall Semester</b>	<b>Hrs</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs</b>
AVIA 2310 Propulsion Systems	3	AVIA 2340 Aircraft Systems & Computers	3
AVIA 3325 FAA Instrument Requirements	3	AVIA 2350 Aviation Weather (spring only)	3
FLYA 2313 Instrument Flight A	1	AVIA 3305 FAA Commercial Requirements	3
FLYA 2314 Instrument Flight B	1	FLYA 3311 Commercial Flight B	1
General Education	6	FLYA 3312 Commercial Flight C	1
<b>Semester Total</b>	<b>14</b>	General Education	5
		<b>Semester Total</b>	<b>16</b>

<b>Junior Year - Fall Semester</b>	<b>Hrs</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs</b>
ATM 4032 Hydraulics/Pneumatics	3	AVIA 3610 Human Factors	3
AVIA 3010 Aerodynamics	3	AVIA 3080 Air Traffic Control	2
AVIA 3370 Transport Aircraft Systems	2	FLYA 3317 Commercial Flight F or FLYA 3417 Commercial Flight F Multiengine	1
AVIA 3372 Advanced Transport Aircraft Systems	2	MGT 3315 Management of Organizations or INDM 4210 Industrial Management	3
FLYA 3315 Commercial Flight D or FLYA 3415 Commercial Flight D Multiengine	1	General Education	6
FLYA 3316 Commercial Flight E or FLYA 3416 Commercial Flight E Multiengine	1	<b>Semester Total</b>	<b>15</b>
MGT 3325 Business Communications	3		
<b>Semester Total</b>	<b>15</b>		

<b>Senior Year - Fall Semester</b>	<b>Hrs</b>	<b>Senior Year - Spring Semester</b>
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 Elective	1	
General Education	3	
<b>Semester Total</b>	<b>14</b>	

**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.
- <sup>10</sup>This course fulfills Competency 10 - Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA . . . they earn 45 credit hours but . . . 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](mailto:testingservices@ucmo.edu)) for more information.

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

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

**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.

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

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

<b>Freshman Year - Fall Semester</b>	<b>Hrs</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs</b>
ENGL 1020 Composition I (GE)	3	ENGL 1030 Composition II or CTE 3060 Tech. 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	<b>Semester Total</b>	<b>15</b>
General Education	6		
<b>Semester Total</b>	<b>16</b>		
<b>Sophomore Year - Fall Semester</b>	<b>Hrs</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs</b>
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
<b>Semester Total</b>	<b>15-16</b>	Free Choice Electives	3
		<b>Semester Total</b>	<b>15-16</b>
<b>Junior Year - Fall Semester</b>	<b>Hrs</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs</b>
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
<b>Semester Total</b>	<b>14-15</b>	<b>Semester Total</b>	<b>15</b>
<b>Senior Year - Fall Semester</b>	<b>Hrs</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs</b>
PSY 4310 Theories of Personality	3	PSY 4110 Systems of Psychology <sup>10</sup>	3
Free Choice Electives (Upper Level 3000/4000)##	12	Free Choice Electives	9-12
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>12-15</b>

**Psychology Major, B.A. Degree - 120 hours**

- \*Refer to the Bachelor's Degree Requirements section in the catalog for the B.A. Modern Language requirement. This plan is based on three modern language courses.
- \*\*These courses are only offered during the semesters indicated.
- #Students will choose among four choices of classes of 9-12 credit hours. See the 2015 Undergraduate Catalog for grouping choices.
- ##This major does not build in the minimum number (30) of upper-level credit hours required for graduation. Be sure to include upper-level choices (3000/4000) in your general education and/or free choice electives. The number of upper level free choice electives will depend on choices made in the general education and major.
- <sup>10</sup>This course fulfills Competency 10 - Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA . . . they earn 45 credit hours but 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](mailto:testingservices@ucmo.edu)) for more information.



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

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

<b>Freshman Year - Fall Semester</b>	<b>Hrs</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs</b>
ENGL 1020 Composition I (GE)	3	ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE)	3
PSY 1000 Orientation to Psychology	1	General Education	12
PSY 1100 General Psychology (GE)	3	<b>Semester Total</b>	<b>15</b>
General Education	9		
<b>Semester Total</b>	<b>16</b>		

<b>Sophomore Year - Fall Semester</b>	<b>Hrs</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs</b>
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
<b>Semester Total</b>	<b>15</b>	Free Choice Electives	5
		<b>Semester Total</b>	<b>15</b>

<b>Junior Year - Fall Semester</b>	<b>Hrs</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs</b>
PSY 3130 Physiological Psychology	4	PSY 4230 Psychology of Learning	3
PSY 3220 Lifespan Development (fall only)**	3	General Education	3
Free Choice Electives	3	Free Choice Electives	5
<b>Semester Total</b>	<b>14</b>	<b>Semester Total</b>	<b>11</b>

**Psychology Major, B.S. Degree - 120 hours**

- \*See the 2015 Undergraduate Catalog for a list of courses that fulfill major electives for the degree. If PSY 4230 is chosen it will count in both the major and general education. If chosen, 3 additional hours of free choice electives will be needed to reach 120 hours.
- \*\*These courses are only offered during the semesters indicated.
- #This major does not build in the minimum number (30) of upper-level credit hours required for graduation. Be sure to include upper-level choices (3000/4000) in your general education and/or free choice electives. The number of upper level free choice electives will depend on choices made in the general education.
- <sup>10</sup>This course fulfills Competency 10 - Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA exam. If they earn 45 credit hours but do not pass the exam, they must 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](mailto:testingservices@ucmo.edu)) for more information.

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

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

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

- \*A grade of C or higher is required in these courses.
- \*\*Admission to this major is required. Students should apply for admission after meeting the following requirements: completion of COMM 1000 or 1050, ENGL 1020, and ENGL 1030 or CTE 3060 (a C or higher in ENGL 1080 may substitute for 1020/1030) with a grade of C or higher; completion of COMM 2620, 2625, and 3620 with a grade of C or higher and a 2.33 or higher GPA in these three courses (essentially, a minimum of 1 B and 2 C grades).
- \*\*\*This major requires 9 hours of COMM major electives from the following list: COMM 3650, 4510, 4600, 4605, 4625, 4627, 4670, 4675.
- #This program requires 26 credit hours of Free Choice Electives to reach the 120 hours required for graduation. It is recommended, but not required, that students consider adding the Industry Practices concentration (18 hours) or a minor to their degree program.
- ##Internship may also be completed during the fall or spring semesters.

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

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

<b>Freshman Year - Fall Semester</b>	<b>Hrs</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs</b>
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	<b>Semester Total</b>	<b>17</b>
<b>Semester Total</b>	<b>18</b>		
<b>Sophomore Year - Fall Semester</b>	<b>Hrs</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs</b>
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 <sup>10</sup>	1
<b>Semester Total</b>	<b>17</b>	COMM 1000 Public Speaking (GE)	3
		PHIL 2300 Ethics (GE)	3
		<b>Semester Total</b>	<b>15</b>
<b>Junior Year - Fall Semester - (43-609) - Clinical</b>	<b>Hrs</b>	<b>Junior Year - Spring Semester - (43-609) - Clinical</b>	<b>Hrs</b>
Radiologic Technology Special Credits	12	Radiologic Technology Special Credits	12
<b>Semester Total</b>	<b>12</b>	<b>Semester Total</b>	<b>12</b>
<b>Junior Year - Summer Semester - (43-609) - Clinical</b>	<b>Hrs</b>		
Radiologic Technology Special Credits	6		
<b>Semester Total</b>	<b>6</b>		
<b>Senior Year - Fall Semester - (43-609) - Clinical</b>	<b>Hrs</b>	<b>Senior Year - Spring Semester - (43-609) - Clinical</b>	<b>Hrs</b>
Clinical Credits	12	Clinical Credits	12
<b>Semester Total</b>	<b>12</b>	<b>Semester Total</b>	<b>12</b>
<b>Senior Year - Summer Semester - (43-609) - Clinical</b>	<b>Hrs</b>		
Clinical Credits	6		
<b>Semester Total</b>	<b>6</b>		

**Radiologic Technology, B.S. Degree - 126 hours**

- <sup>10</sup>This course fulfills Competency 10 - Integration in the General Education program. The hours count in the major, not in general education.
- Candidates for this degree must maintain a minimum cumulative grade-point average (each affiliate establishes their own minimum GPA) and have a minimum grade of C or better in listed program courses.
- Candidates for this degree must successfully complete a minimum number of hours of shadowing in a diagnostic area of Radiologic Technology (each affiliate establishes their own minimum number of hours).
- Students must meet with a departmental advisor within enrolling in 30 credit hours to obtain specific course information, program and learning assessment goals, and the Prospective Student Information Guide. This helps ensure success in the program.
- Coursework completed in the junior and senior years are transferred to UCM as the listed course equivalencies in the Undergraduate Catalog.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA exam 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](mailto:testingservices@ucmo.edu)) for more information.

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



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

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

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

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

- #These four courses must be taken as a block, see your academic advisor for enrollment.
- \*See catalog for a list of History classes to fulfill the upper-level electives in American History (HIST 43XX) and World History (HIST 44XX) requirements.
- ##These four courses must be taken as a block.
- +The department recommends inclusion of at least one course that focuses on a non-western society, nation or region or on the non-western world. A list of the courses which fulfill this requirement is available from the Department of History and Anthropology and is on file with the academic advisors.
- ++The courses listed for this semester constitute the professional education (student teaching) block. The student should not take any other courses during this semester.
- <sup>10</sup>This course fulfills Competency 10 - Integration in the General Education program. The hours count in the major, not in general education.
- The Missouri General Education Assessment (MoGEA) is an exam required of all Teacher Education students. Students must pass all areas of the

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

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any credits transferred to UCM and on placement in math, reading, and writing. See the current Undergraduate Catalog ([www.ucmo.edu/academics/catalogs](http://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) T\*(SOC 1800 General So10 -sfy the General E(GE))Tj0 Tw ( )Tj0.03l E]ff

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

- \*Required general education classes include: SOC 1800 General Sociology, PSY 1100 General Psychology, and BIOL 2010 Human Biology.
- \*\*COMM 1000 Public Speaking is strongly recommended by the department. This course will fulfill the general education requirement for Communication.
- \*\*\*AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- #CTE 3060 Technical Writing or MGT 3325 Business Communication is strongly recommended by the department. CTE 3060 will fulfill the Writing II requirement in general education or three hours of free choice electives if ENGL 1030 is chosen for Writing II in general education. MGT 3325 will fulfill three hours of free choice electives.
- <sup>10</sup>This course fulfills Competency 10 - Integration in the General Education program. The hours count in the major, not in general education.
- All Junior and Senior level courses (3000/4000) in the major are taught at the Summit Center (in Lee's Summit) only one semester each year. Check with the department for course projections if you are interested in taking classes at the Summit Center.
- Credit will not be given for life or previous work experience for courses required in the social work major.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA . . . they earn 45 credit hours but 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](mailto:testingservices@ucmo.edu)) for more information.

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

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

**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 an 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

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

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

<b>Freshman Year - Fall Semester</b>	<b>Hrs</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs</b>
ENGL 1020 Composition I (GE)	3	ACST 1300 Basic Statistics (GE)	3
SOC 1800 General Sociology (GE)	3	ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE)	3
General Education	9	SOC Major Elective	3
<b>Semester Total</b>	<b>15</b>	General Education	6
AE 1400 University Foundations*	1	<b>Semester Total</b>	<b>15</b>

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

<b>Junior Year - Fall Semester</b>	<b>Hrs</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs</b>
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
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>

<b>Senior Year - Fall Semester</b>	<b>Hrs</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs</b>
SOC 4860 Sociological Thought (fall only)	3	General Education*** (3000/4000 level)+	3
SOC 4890 Social Survey Research (fall only)	3	<b>Semester Total</b>	<b>3</b>
Free Choice Electives*** (3000/4000 level)+	9		<b>15</b>
<b>Semester Total</b>	<b>15</b>		

**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.
- <sup>10</sup>This course fulfills Competency 10 - Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA . . . they earn 45 credit hours but 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](mailto:testingservices@ucmo.edu)) for more information.



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



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

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

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

- \*AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- \*\*With permission of advisor, students may substitute PSY 3220 Lifespan Psychology for both PSY 2220 and PSY 4230.
- #These SDD courses (EDSP 4310, 4330, and 4450) are variably offered. Please contact your faculty advisor to make sure you are planning to take the courses in the appropriate semester to stay on track.
- ##EDSP 4161 and NUR 4060 must be taken in the same semester.
- +The courses listed for this semester constitute the professional education (student teaching) block. The student should not take any other courses during this semester.

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

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any

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

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

<b>Freshman Year - Fall Semester</b>	<b>Hrs</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs</b>
<i>ENGL 1020 Composition I (GE)</i>	3	<i>ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE)</i>	3
THEA 1100 Oral Interpretation (GE)	3	<i>HIST 1350 or 1351 History of the United States (GE)</i>	3
THEA 1500 Acting	3	THEA 2400 Discovering Theatre (GE)	3
THEA 1600 Stagecraft	3	THEA 2610 Design Fundamentals	3
<i>General Education MATH</i>	3	<i>General Education Science w/lab</i>	4
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>16</b>

<b>Sophomore Year - Fall Semester</b>	<b>Hrs</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs</b>
COMM 2340 Argumentation & Debate (fall only)	3	COMM 2340 Argumentation & Debate (spring only)	3
COMM 3390 Forensics	1	COMM 3390 Forensics	1
EDFL 2100 Introduction to the Teaching Profession	3	EDFL 2100 Introduction to the Teaching Profession	3
FLDX 2150 Introductory Field Experience	1	FLDX 2150 Introductory Field Experience	1
EDFL 2240 Educational Psychology	3	EDFL 2240 Educational Psychology	3
EDSP 2100 Education of the Exceptional Child	3	EDSP 2100 Education of the Exceptional Child	3
POLS 1510 American Government (GE)	3	POLS 1510 American Government (GE)	3
<b>Semester Total</b>	<b>17</b>	<b>Semester Total</b>	<b>17</b>

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

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

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

This guide is valid for the 2015 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend on any

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



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

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

<b>Freshman Year - Fall Semester</b>	<b>Hrs</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs</b>
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 Tech. Writing (GE)	3
General Education	3	General Education	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>

<b>Sophomore Year - Fall Semester</b>	<b>Hrs</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs</b>
ART 1815 Art History Survey I (fall only)	3	ART 1825 Art History Survey II (spring only)	3
ART 2335 3-D Design	3	ART 2412 Ceramics I	3
ART 3209 Figure Construction	3	ART 2511 Painting I	3
ART 3420 Sculpture II	3	ART 3440 Sculpture III	3
General Education	3	General Education	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>

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

<b>Senior Year - Fall Semester</b>	<b>Hrs</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs</b>
ART 4420 Sculpture IV	3	ART 4020 Studio Seminar	3
ART Electives*	6	ART 4221 Art Theory and Criticism <sup>10</sup>	3
General Education	6	ART 4420 Sculpture IV	3
<b>Semester Total</b>	<b>15</b>	General Education	6
		<b>Semester Total</b>	<b>15</b>

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

- \*Students must choose 15 hours of ART electives.
- <sup>10</sup>This course fulfills Competency 10 - Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA exam when 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](mailto:testingservices@ucmo.edu)) for more information.

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

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

<b>Freshman Year - Fall Semester</b>	<b>Hrs</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs</b>
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 2511 Painting I	3
ENGL 1020 Composition I (GE)	3	ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE)	3
General Education	3	General Education	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>

<b>Sophomore Year - Fall Semester</b>	<b>Hrs</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs</b>
ART 1815 Art History Survey I (fall only)	3	ART 1825 Art History Survey II (spring only)	3
ART 2335 3-D Design	3	ART 2412 Ceramics I	3
ART 3209 Figure Construction	3	ART 2710 Printmaking I	3
ART 3511 or 3513 (Painting II or Painting II Plein Air)	3	ART 3511 or 3515 (Painting II or Painting II Figure)	3
General Education	3	General Education	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>

<b>Junior Year - Fall Semester</b>	<b>Hrs</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs</b>
ART 2420 Sculpture I	3	ART 3510 Watercolor	3
ART 3110 Drawing III	3	ART 4511 or 4515 (Painting III or Painting III Figure)	3
ART 3511 or 3513 (Painting II or Painting II Plein Air)	3	ART 4850 20th Century Art & Architecture (fall only) or ART 4860 Contemporary Art & Design (spring only)	3
ART Elective**	3	ART Elective**	3
General Education	6	General Education	3
<b>Semester Total</b>	<b>18</b>	<b>Semester Total</b>	<b>15</b>

<b>Senior Year - Fall Semester</b>	<b>Hrs</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs</b>
ART 4511 or 4513 (Painting III, Painting III Plein Air)	3	ART 4221 Art Theory and Criticism <sup>10</sup>	3
ART Electives**	6	ART 4511 or 4515 (Painting III or Painting III Figure)	3
General Education	6	ART Elective**	3
<b>Semester Total</b>	<b>15</b>	General Education	6
		<b>Semester Total</b>	<b>15</b>

**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.
- <sup>10</sup>This course fulfills Competency 10 - Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA . . . they earn 45 credit hours but . . . 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](mailto:testingservices@ucmo.edu)) for more information.



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

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

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

- \*Students must choose 15 hours of ART major electives.
- <sup>10</sup>This course fulfills Competency 10 - Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA . . . they earn 45 credit hours but . . . 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.

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

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

<b>Freshman Year - Fall Semester</b>	<b>Hrs</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs</b>
ART 1110 Drawing I	3	ART 1120 Drawing II	3
ART 1315 2-D Design	3	ART 1325 Color and Design	3
ART 1800 Ideas & the Visual Arts (GE)	3	ART 2710 Printmaking I	3
ENGL 1020 Composition I (GE)	3	ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE)	3
General Education	3	General Education	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>

<b>Sophomore Year - Fall Semester</b>	<b>Hrs</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs</b>
ART 1815 Art History Survey I (fall only)	3	ART 1825 Art History Survey II (spring only)	3
ART 2335 3-D Design	3	ART 2412 Ceramics I	3
ART 3209 Figure Construction	3	ART 2511 Painting I	3
ART 3710 Printmaking II	3	ART 3710 Printmaking II	3
General Education	3	General Education	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>

<b>Junior Year - Fall Semester</b>	<b>Hrs</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs</b>
ART 2420 Sculpture I	3	ART 3720 Printmaking III	3
ART 3110 Drawing III	3	ART 4850 20th Century Art & Architecture (fall only) or ART 4860 Contemporary Art & Design (spring only)	3
ART 3710 Printmaking II	3	ART Electives*	6
ART Elective*	3	General Education	3
General Education	6	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>18</b>		

<b>Senior Year - Fall Semester</b>	<b>Hrs</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs</b>
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 <sup>10</sup>	3
<b>Semester Total</b>	<b>15</b>	General Education	6
		<b>Semester Total</b>	<b>15</b>

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

- \*Students must choose 15 hours of ART major electives.
- <sup>10</sup>This course fulfills Competency 10 - Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA . . . they earn 45 credit hours but . . . 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](mailto:testingservices@ucmo.edu)) for more information.

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

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

<b>Freshman Year - Fall Semester</b>	<b>Hrs</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs</b>
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 Elective*	3
ENGL 1020 Composition I (GE)	3	ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE)	3
General Education	3	General Education	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>

<b>Sophomore Year - Fall Semester</b>	<b>Hrs</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs</b>
ART 1815 Art History Survey I (fall only)	3	ART 1825 Art History Survey II	3
ART 2335 3-D Design	3	ART 2511 Painting I	3
ART 2610 Introduction to Graphic Design & Illustration	3	ART 2710 Printmaking I	3
ART 2620 Typography	3	ART 3209 Figure Construction	3
General Education	3	General Education	6
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>18</b>

<b>Junior Year - Fall Semester</b>	<b>Hrs</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs</b>
ART 2420 Sculpture I	3	ART 2412 Ceramics I	3
ART 3110 Drawing III	3	ART 3635 Illustration Concepts	3
ART 3625 Illustration Techniques	3	ART Elective*	3
ART 4850 20th Century Art & Arch. (fall only) or ART 4860 Contemporary Art & Design (spring only)	3	General Education	6
General Education	3	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>15</b>		

<b>Senior Year - Fall Semester</b>	<b>Hrs</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs</b>
ART 4625 Advanced Illustration I	3	ART 4020 Studio Seminar	3
Art Electives*	6	ART 4221 Art Theory and Criticism <sup>10</sup>	3
General Education	6	ART 4635 Advanced Illustration II	3
<b>Semester Total</b>	<b>15</b>	ART Elective*	3
		General Education	3
		<b>Semester Total</b>	<b>15</b>

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

- \*Students must choose 15 hours of ART electives.
- <sup>10</sup>This course fulfills Competency 10 - Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA . . . they earn 45 credit hours but 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](mailto:testingservices@ucmo.edu)) for more information.

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

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

<b>Freshman Year - Fall Semester</b>	<b>Hrs</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs</b>
BTE 1210 Essentials of Managing Information (GE)	2	CIS 1600 Business Information Management	3
ENGL 1020 Composition I (GE)	3	COMM 1000 Public Speaking (GE)	3
MATH 1111 College Algebra (GE)	3	CTE 3060 Technical Writing (GE)	3
NET 1060 Introduction to Networks*	3	NET 1061 Routing and Switching Essentials*	3
General Education	3	General Education	3
<b>Semester Total</b>	<b>14</b>	<b>Semester Total</b>	<b>15</b>
AE 1400 University Foundations**	1		
<b>Sophomore Year - Fall Semester</b>	<b>Hrs</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs</b>
CIS 2605 Programming with Visual C#	3	CIS 2665 Principles of Data Communications & Local Area Network	3
NET 2060 Scaling Networks*	3	NET 2061 Connecting Networks*	3
General Education Science with Laboratory	4	General Education	9
General Education	6	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>16</b>		
<b>Junior Year - Fall Semester</b>	<b>Hrs</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs</b>
CIS 3650 Database Management Systems	3	CIS 4680 Data Resource Management+	3
CIS 3665 Data Communication Technologies*	3	CIS 4685 Network Planning, Design and Security*+	3
NET 4060 Advanced Network Routing*	3	NET 3068 Network Security I	4
General Education	3	Free Choice Electives	6
Free Choice Electives	3	<b>Semester Total</b>	<b>16</b>
<b>Semester Total</b>	<b>15</b>		
<b>Junior Year - Summer Semester</b>	<b>Hrs</b>		
SOT 3022 Internship in Technology	3		
<b>Semester Total</b>	<b>3</b>		
<b>Senior Year - Fall Semester</b>	<b>Hrs</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs</b>
CIS 4665 Data Communication & Distributed Data Processing	3	CIS 4610 Special Projects	3
NET 4062 Advanced Switching*	3	NET 4063 Network Support* <sup>10</sup>	3
Free Choice Electives	8	Free Choice Electives	6
<b>Semester Total</b>	<b>14</b>	<b>Semester Total</b>	<b>12</b>

**Systems Engineering Technology Major  
B.S. Degree - 120 hours**

- \*This class is only offered during the semester indicated.
- \*\*AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- +This class requires senior standing (90 earned credit hours) for enrollment - will need permission of the instructor to enroll.
- <sup>10</sup>This course fulfills Competency 10 - Integration in the General Education program. The hours count in the major, not in general education.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA . . . they earn 45 credit hours but . . . 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](mailto:testingservices@ucmo.edu)) for more information.



**Systems Engineering Technology Major, Missouri Innovation Campus (MIC), B.S. Degree (43-879)**

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

**General Information**

- This program is offered in cooperation with the Lee's Summit R-7 School District and the Metropolitan Community College (MCC). Students begin the program during their junior year in high school and will earn an AAS degree from MCC-BTC with a major in Engineering Technology: Architecture Emphasis.
- Students must be accepted into this program. Go to [www.ucmo.edu/mic](http://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](http://www.ucmo.edu/registrar/standards/upper.cfm).
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA . . . they earn 45 credit hours but . . . 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](mailto: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](http://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.
- #This class requires senior standing (90 earned credit hours) for enrollment - will need permission of the instructor to enroll.
- <sup>10</sup>This course fulfills Competency 10 - Integration in the General Education program. The hours count in the major, not in general education.



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

