

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

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<p><b>Freshman Year</b> - Fall Semester</p> <p>CIS 1600 Business Information Management (GE)*                      ECON 1010 Principles of Macroeconomics (GE)*                      ENGL 1020 Composition I (GE)                      MATH 1111 College Algebra (GE)*                      General Education  <b>Semester Total</b>                      AE 1400 or BADM 1400 University Foundations**</p>	<p><b>Hrs</b></p> <p>3 3 3 3 3 <b>15</b> 1</p>	<p><b>Freshman Year</b> - Spring Semester</p> <p>COMM 1000 Public Speaking or COMM 1050                      Fundamentals of Oral Communication Competency (GE)                      ECON 1011 Principles of Microeconomics*                      ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE)                      General Education  <b>Semester Total</b></p>	<p><b>Hrs</b></p> <p>3 3 3 3 6 <b>15</b></p>
<p><b>Sophomore Year</b> - Fall Semester</p> <p>ACCT 2101 Principles of Financial Accounting*#                      BLAW 2720 Legal Environment of Business*                      General Education - Literature                      General Education  <b>Semester Total</b></p>	<p><b>Hrs</b></p> <p>3 3 3 7 <b>16</b></p>	<p><b>Sophomore Year</b> - Spring Semester</p> <p>ACCT 2102 Principles of Managerial Accounting*#                      ACCT 3110 Intermediate Financial Accounting I***#                      FIN 2801 Business Statistics I*                      General Education  <b>Semester Total</b>  <b>Note: Complete all B.S.B.A. admission requirements.*</b></p>	<p><b>Hrs</b></p> <p>3 3 3 6 <b>15</b></p>
<p><b>Junior Year</b> - Fall Semester</p> <p>ACCT 3111 Intermediate Financial Accounting II#                      ACCT 3120 Cost &amp; Managerial Accounting#                      FIN 3801 Business Statistics II                      MGT 3315 Management of Organizations                      MKT 3405 Marketing Policy  <b>Semester Total</b></p>	<p><b>Hrs</b></p> <p>3 3 3 3 3 <b>15</b></p>	<p><b>Junior Year</b> - Spring Semester</p> <p>ACCT 3112 Intermediate Financial Accounting III#                      ACCT 3130 Introduction to Income Tax#                      BLAW 3721 Law of Business Transactions                      FIN 3850 Principles of Finance                      MGT 3325 Business Communications                      Free Choice Elective (may not be an ACCT prefix)##  <b>Semester Total</b></p>	<p><b>Hrs</b></p> <p>3 3 3 3 3 1 <b>16</b></p>
<p><b>Senior Year</b> - Fall Semester</p> <p>ACCT 3160 Accounting Information Systems#                      ACCT 4100 Advanced Accounting I                      CIS 3650 Database Management Systems                      MGT 3360 Supply Chain and Operations Management                      3000/4000 Level Non-Accounting Business Elective##  <b>Semester Total</b></p>	<p><b>Hrs</b></p> <p>3 3 3 3 3 <b>15</b></p>	<p><b>Senior Year</b> - Spring Semester</p> <p>ACCT 4105 Auditing                      ACCT 4130 Advanced Income Tax                      MGT 4357 Organizational Policy and Strategy<sup>10</sup>                      3000/4000 Level Non-Accounting Business Elective##                      Free Choice Electives (may not be an ACCT prefix)##  <b>Semester Total</b></p>	<p><b>Hrs</b></p> <p>3 3 3 3 4 <b>16</b></p>

## 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 *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.

## Accountancy Major, B.S.B.A./M.A. Degrees (46-621)

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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	
ECON 1010 Principles of Macroeconomics (GE)*#	3	Fundamentals of Oral Communication Competency (GE)	3
ENGL 1020 Composition I (GE)	3	ECON 1011 Principles of Microeconomics*#	3
MATH 1111 College Algebra (GE)*	3	ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE)	3
General Education	3	General Education	6
<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	ACCT 3110 Intermediate Financial Accounting I***	3
General Education - Literature	3	FIN 2801 Business Statistics I*	3
General Education	7	General Education	6
<b>Semester Total</b>	<b>16</b>	<b>Semester Total</b>	<b>15</b>
		<b>Note: Complete all B.S.B.A. admission requirements and apply for admission to the BSBA/MA accelerated degree program.*</b>	
<b>Junior Year - Fall Semester</b>	<b>Hrs</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs</b>
ACCT 3111 Intermediate Financial Accounting II#	3	ACCT 3112 Intermediate Financial Accounting III#	3
ACCT 3120 Cost & Managerial Accounting#	3	ACCT 3130 Introduction to Income Tax#	3
FIN 3801 Business Statistics II#	3	BLAW 3721 Law of Business Transactions#	3
MGT 3315 Management of Organizations#	3	FIN 3850 Principles of Finance#	3
MKT 3405 Marketing Policy#	3	MGT 3325 Business Communications#	3
<b>Semester Total</b>	<b>15</b>	Free Choice Elective (may not be an ACCT prefix)##	1
		<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>
ACCT 3160 Accounting Information Systems#	3	ACCT 4105 Auditing#	3
ACCT 4100 Advanced Accounting I#	3	ACCT 4130 Advanced Income Tax#	3
CIS 3650 Database Management Systems#	3	MGT 4357 Organizational Policy and Strategy <sup>10</sup> #	3
MGT 3360 Supply Chain and Operations Management#	3	3000/4000 Level Non-Accounting Business Elective#+	3
3000/4000 Level Non-Accounting Business Elective#+	3	Free Choice Electives (may not be an ACCT prefix)+	4
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>16</b>
<b>Fifth Year - Fall Semester</b>	<b>Hrs</b>	<b>Fifth Year - Spring Semester</b>	<b>Hrs</b>
ACCT 5120 Seminar in Accounting Theory#	3	ACCT 5150 Advanced Auditing#	3
ACCT 5130 Seminar in Tax Research and Planning#	3	ACCT Approved Major Electives^#	6
ACCT approved major elective^#	3	Non-ACCT Approved Major Electives^#	6
ACCT or Non-ACCT approved major elective^#	3	<b>Semester Total</b>	<b>15</b>
Non-ACCT approved major elective^#	3		
<b>Semester Total</b>	<b>15</b>		

## Accountancy Major, B.S.B.A./M.A. Degrees - 150 Hours

- \*Accountancy majors in the accelerated BSBA/MA program must complete six of the eight preadmission courses with a grade of C or higher and obtain a 3.00 cumulative GPA and a 3.00 in these specific courses for admission to the degree program. Two of the preadmission courses (ACCT 2101 and 2102) must have a grade of B or higher. 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 grade of B or higher is required in these courses: ACCT 2101, 2102, and 3110.
- #A grade of C or higher required for these marked courses.
- +To satisfy accreditation standards students must earn 90 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. No more than six hours of C grade may be used in the graduate level coursework.
- <sup>^</sup>The graduate portion of the coursework includes 21 hours of major specialization courses. Twelve of the 21 hours must be at the 5000 or 6000 level. At least 9 hours must be in Accounting, of which 6 hours must be at the 5000 or 6000 level. At least 9 hours must be outside of Accounting.
- A 2.65 cumulative undergraduate GPA and a 3.00 cumulative graduate GPA is required for graduation.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, [testingservices@ucmo.edu](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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<b>Freshman Year</b> - Fall Semester	<b>Hrs</b>	<b>Freshman Year</b> - Spring Semester	<b>Hrs</b>
ACST 1300 Basic Statistics (GE)	3	CS 3800 Applications Development with VB.NET**	3
CS 1100 Computer Programming I	3	MATH 1152 Calculus & Analytic Geometry II	5
ECON 1010 Principles of Macroeconomics (GE)	3	MATH 2410 Discrete Mathematics	3
MATH 1151 Calculus & Analytic Geometry I (GE)	5	Free Choice Electives# (ECON 1011 Microeconomics^)	3
<b>Semester Total</b>	<b>14</b>	<b>Semester Total</b>	<b>14</b>
AE 1400 University Foundations*	1		

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

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

<b>Senior Year</b> - Fall Semester	<b>Hrs</b>	<b>Senior Year</b> - Spring Semester	<b>Hrs</b>
ACST 4322 Applied Statistics II**	3	ACST 4530 Statistical Modeling**	3
ACST 4520 Life Contingencies I**	3	ACST 4645 Senior Projects in Actuarial Science & Statistics <sup>10</sup>	3
Major Elective##	3	Major Elective##	3
General Education	6	Free Choice Electives#	6
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>

**Actuarial Science and Statistics Major (Option 1: Actuarial Science), B.S. Degree - 120 hours**

- \*AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- \*\*This course is only offered during the semester indicated.
- #The number of free choice electives required will depend on selections made in the major and general education.
- ##This major Option requires 9 hours of major electives. See the Undergraduate Catalog for a list of appropriate choices.
- ^To qualify for actuarial certification, the department recommends taking ECON 1011 for 3 hours of free choice electives and ECON 3030 for 3 hours of major electives.
- <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 *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.

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

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<b>Freshman Year - Fall Semester</b>	<b>Hrs</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs</b>
ACST 1300 Basic Statistics (GE)	3	CS 1110 Computer Programming II	3
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
<b>Semester Total</b>	<b>14</b>	General Education	3
AE 1400 University Foundations*	1	<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>
ACST 3311 Introduction to Math Statistics**	3	ACST 4312 Probability Models**	3
MATH 2153 Calculus & Analytic Geometry III	3	MATH 3151 Differential Equations**	3
MATH 3710 Linear Algebra	3	General Education	9
General Education - Literature	3	<b>Semester Total</b>	<b>15</b>
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>
ACST 4321 Applied Statistics I**	3	ACST 4323 Statistical Aspects of Experimental Design**	3
Major Electives#	4	General Education	3
General Education	9	Free Choice Electives##	9
<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>
ACST 4322 Applied Statistics II**	3	ACST 4530 Statistical Modeling**	3
ACST 4331 SAS Programming for Statistical Analysis	3	ACST 4645 Senior Projects in Actuarial Science & Statistics <sup>10</sup>	3
Major Electives#	6	Major Elective#	4-5
Free Choice Electives##	3	Free Choice Electives##	2-3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>13</b>

**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 *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.

## Agricultural Science Major (Area 1: Agribusiness Management), 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 Strategies for Success in the UCM Agriculture Prog.	1	AGRI 1600 Introduction to Horticulture Science (Lab) (GE)	4
AGRI 1420 Introduction to Animal Science	3	AGRI 2425 Introduction to Animal Production	3
COMM 1000 Public Speaking (GE)	3	CHEM 1104 Introduction to the Sciences: Chemistry (Lab) (GE)	4
ECON 1010 Principles of Macroeconomics (GE)	3	ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE)	3
ENGL 1020 Composition I (GE)	3	MATH 1111 College Algebra (GE)	3
LIS 1600 University Library and Research Skills (GE)	2	<b>Semester Total</b>	<b>17</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>
AGRI 2330 Introduction to Soil Science (Lab)	3	ACCT 2101 Principles of Financial Accounting or	
General Education - Literature	3	ACCT 2100 Survey of Accounting	3
General Education	6	AGRI 2130 Global Agriculture (GE)	3
<b>Semester Total</b>	<b>12</b>	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
		<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>
AGRI 3110 Agri-Business Management	3	AGRI 4140 Agricultural Policy	3
AGRI 3140 Agricultural Analysis and Statistics	3	AGRI 4300 Soil Fertility & Fertilizers	3
AGRI 3410 Animal Breeding or		Free Choice Electives	8
AGRI 4310 Plant Breeding & Genetics	3	<b>Semester Total</b>	<b>14</b>
MGT 3325 Business Communications	3		
MKT 3430 Professional Sales	3		
<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 Distrib. and Marketing of Agriculture Products	3	AGRI 4101 Agricultural Capstone Experience <sup>10</sup>	3
AGRI 3610 Agriculture Pest Management	3	AGRI 4110 Agricultural Futures Trading	3
AGRI 3810 Internship in Agriculture	3	AGRI 4120 International Agriculture	3
BLAVV 2720 Legal Environment of Business	3	AGRI 4150 Natural Resources Economics	3
SAFE 4300 Agricultural Safety	3	Free Choice Electives	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>

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

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

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

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

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

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

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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>
AGRI 1100 Strategies for Success in the UCM Agriculture Prog.	1	AGRI 1600 Introduction to Horticulture Science (Lab) (GE)	4
AGRI 1420 Introduction to Animal Science	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 Introduction to Animal Production	3
ECON 1011 Principles of Microeconomics	3	LIS 1600 University Library and Research Skills (GE)	2
General Education - Literature	3	General Education	6
General Education	3	<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
SAFE 4300 Agricultural Safety	3	Free Choice Electives	3
Free Choice Elective	1	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>16</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 *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.

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

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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>
AGRI 1100 Strategies for Success in the UCM Agriculture Prog.	1	AGRI 1600 Introduction to Horticulture Science (Lab) (GE)	4
AGRI 1420 Introduction to Animal Science	3	COMM 1000 Public Speaking (GE)	3
CHEM 1104 Introduction to the Sciences: Chemistry (Lab) (GE)	4	ECON 1010 Principles of Macroeconomics (GE)	3
ENGL 1020 Composition I (GE)	3	ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE)	3
LIS 1600 University Library and Research Skills (GE)	2	MATH 1111 College Algebra (GE)	3
General Education	3	<b>Semester Total</b>	<b>16</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 2330 Introduction to Soil Science (Lab)	3	AGRI 1310 Agronomy I: Row Crops (fall only) or	
ECON 1011 Principles of Macroeconomics	3	AGRI 2315 Agronomy II: Forages (spring only)	2
General Education - Literature	3	AGRI 2130 Global Agriculture (GE)	3
General Education	3	AGRI 2425 Introduction to Animal Production	3
<b>Semester Total</b>	<b>12</b>	General Education	6
		<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 3610 Agricultural Pest Management (Lab)	3
AGRI 4320 Plant Diseases	3	AGRI 3620 Residential Landscape Design (Lab)	3
AGRI 4600 Horticultural Plants I: Woody (Lab)	3	AGRI 4300 Soil Fertility & Fertilizers	3
AGRI 4610 Turfgrass Science (Lab)	3	AGRI 4605 Horticultural Plants II: Herbaceous	3
Free Choice Electives	3	Free Choice Electives	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>
<b>Between Junior and Senior Year - Summer</b>	<b>Hrs</b>		
AGRI 3810 Internship in Agriculture	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>
AGRI 3120 Distribution and Marketing of Agriculture Products	3	AGRI 3640 Horticultural Propagation Materials (Lab)	3
AGRI 3410 Animal Breeding or		AGRI 4000 Special Projects in Agriculture	3
AGRI 4310 Plant Breeding & Genetics	3	AGRI 4101 Agricultural Capstone Experience <sup>10</sup>	3
AGRI 4340 Agricultural Sprays and Chemicals	3	Free Choice Electives	5
SAFE 4300 Agricultural Safety	3	<b>Semester Total</b>	<b>14</b>
Free Choice Electives	3		
<b>Semester Total</b>	<b>15</b>		

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

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



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

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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**

ART 1110 Drawing I	
ART 1315 2-D Design	
ART 1800 Ideas & the Visual Arts (GE)	
<i>ENGL 1020 Composition I (GE)</i>	
General Education	
<b>Semester Total</b>	<b>15</b>
AE 1400 University Foundations*	1

**Freshman Year - Spring Semester**

ART 1120 Drawing II	3
ART 1325 Color and Design	3
<i>ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE)</i>	3
<i>HIST 1350 or 1351 History of the United States (GE)</i>	3
General Education - Mathematics	3
General Education	3
<b>Semester Total</b>	<b>18</b>

**Sophomore Year - Fall Semester**

ART 2412 Ceramics I	
EDFL 2100 Introduction to the Teaching Profession	
FLDX 2150 Introductory Field Experience	1
EDFL 2240 Educational Psychology	3
EDSP 2100 Education of the Exceptional Child	3
<i>POLS 1510 American Government (GE)</i>	3
<b>Semester Total</b>	<b>16</b>

**Sophomore Year - Spring Semester**

ART 1825 Art History Survey II	3
ART 1835 Global Arts & Culture (GE)	3
ART 2420 Sculpture I	3
ART 2710 Printmaking I	3
General Education Science w/lab	4
General Education (Managing Information)	2
<b>Semester Total</b>	<b>18</b>
<i>(Successfully complete MoGEA exam by end of this semester)</i>	

**Junior Year - Fall Semester**

ART 2511 Painting I	
ART 3314 Fibers	
ART 3911 Art Education Foundations & Literacy (fall only)	2
EDFL 4210 Introduction to Content Area Literacy	2
PHOT 1203 Introduction to Photography	2
General Education - Literature	3
<b>Semester Total</b>	<b>16</b>

**Junior Year - Spring Semester**

ART 3209 Figure Construction	3
ART 3915 Methods of Tchng Art I: Media & Curr. (sprg only)# 2	
ART 4850 20th Century Art & Architecture (fall only) or ART 4860 Contemporary Art & Design (spring only)	3
EDFL 2250 Introduction to English Language Learners and Culturally Responsive Pedagogy	2
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>

**Senior Year - Fall Semester**

ART 4221 Art Theory and Criticism	3
ART 4915 Mthds. of Tchng Art II: Mgmt. & Assess. (fall only)# 3	
EDFL 4970 Secondary Teaching & Behavior Management#	2
FLDX 4970 Field Experience II in the Content Area#	1
Upper Level Studio Concentration	3
General Education	3
<b>Semester Total</b>	<b>15</b>

**Senior Year - Spring Semester\*\***

ART 4920 Methods of Teaching Art III: Seminar for Student Teaching <sup>10</sup>	3
FLDX 4468 Student Teaching Secondary II <sup>10</sup>	4
FLDX 4495 Student Teaching Elementary I <sup>10</sup>	5
<b>Semester Total</b>	<b>12</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)

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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 (apply to major)</b>		<b>Hrs</b>
AT 1610 Introduction to Athletic Training		2	AT 1630 Foundations of Athletic Training		2
AT 1611 Introduction to Athletic Training Lab I		1	AT 1631 Foundations of Athletic Training Lab II		1
AT 1625 CPR/First Aid/AED for Health Care Professional		1	AT 1640 Medical Terminology		1
CHEM 1104 Introduction to the Sciences: Chemistry (GE)		4	AT 1650 Responding to Emergencies for the Profess. Rescuer		2
ENGL 1020 Composition I (GE)		3	BIOL 3401 Human Anatomy**		3
MATH 1111 College Algebra (GE)**		3	US 1600 University Library and Research Skills (GE)		2
<b>Semester Total</b>		<b>14</b>	PE 1800 Functional Anatomy**		3
AE 1400 University Foundations*		1	<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>
AT 2610 Orthopedic Assessment: Lower Extremity		2	AT 2620 Orthopedic Assessment: Upper Extremity		2
AT 2611 Orthopedic Assessment: Lower Extremity Lab III		1	AT 2621 Orthopedic Assessment: Upper Extremity Lab IV		1
AT 2640 Introduction to Therapeutic Rehabilitation		2	AT 2630 Therapeutic Modalities		3
BIOL 3402 Human Physiology**		5	AT 2631 Therapeutic Modalities Lab		1
HED 1100 Personal Health (GE)		3	PE 2472 Communicating Ideas on Sport (GE)		3
PE 2850 Foundations of Exercise Physiology**		3	PE 2800 Biomechanics		3
<b>Semester Total</b>		<b>16</b>	PSY 1100 General Psychology (GE)		3
			<b>Semester Total</b>		<b>16</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>		<b>Hrs</b>	<b>Junior Year - Spring Semester</b>		<b>Hrs</b>
AT 3620 Clinical Athletic Training Lab V		2	AT 3640 Clinical Athletic Training Lab VI		2
AT 3630 Therapeutic Rehabilitation		2	AT 4630 Organization & Administration of Athletic Training		3
AT 3631 Therapeutic Rehabilitation Lab		1	PE 4740 Legal Liability in Fit./Well., PE, Rec, & Sport Settings		2
AT 3650 Sport & Exercise Pharmacology		2	General Education - Literature		3
AT 4650 Human Disease Lab for Athletic Training		1	General Education		3
CTE 3060 Technical Writing (GE)		3	Free Choice Elective		1
HED 4370 Human Diseases		3	<b>Semester Total</b>		<b>14</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>
AT 4610 Clinical Athletic Training Lab VII		2	AT 4620 Clinical Athletic Training Lab VIII		2
AT 4640 Senior Seminar in Athletic Training <sup>10</sup>		2	HED 4300 Nutrition & Human Performance		3
PE 4830 Psychological Aspects of Physical Education		2	PE 4850 Assessment & Evaluation of Fitness/Wellness		3
PSY 4520 Statistics for the Behavioral Sciences		3	General Education		6
General Education		6	<b>Semester Total</b>		<b>14</b>
<b>Semester Total</b>		<b>15</b>			

## 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 *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.

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

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<b>Freshman Year - Fall Semester</b>		<b>Hrs</b>	<b>Freshman Year - Spring Semester</b>		<b>Hrs</b>
ATM 1010 Contemporary Power Systems*		3	ACST 1300 Basic Statistics or MATH 1131 Applied Calculus		3
ENGL 1020 Composition I (GE)		3	ATM 2124 Automotive Braking Systems*		4
ET 1010 Applied Electricity		4	CIS 1600 Business Information Management (GE)		3
MATH 1111 College Algebra (GE)		3	ECON 1010 Principles of Macroeconomics (GE)		3
<b>Semester Total</b>		<b>13</b>	General Education		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>
ATM 2110 Engine Theory & Maintenance*		4	ACCT 2100 Survey of Accounting or ACCT 2101 Principles of Financial Accounting**		3
ATM 2130 Automotive Electrical Systems*		4	ATM 2132 Engine Performance I*		4
COMM 1000 Public Speaking (GE)		3	ATM 2150 Mobile HVAC*		3
CS 1030 Introduction to Computer Programming (GE)		3	CTE 3060 Technical Writing (GE)		3
<b>Semester Total</b>		<b>14</b>	PHYS 1104 Introduction to the Sciences: Physics (GE)		4
			<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>
ATM 2140 Manual Drivelines*		3	ATM 3110 Automotive Engine Overhaul*		4
ATM 3120 Steering and Suspension Systems*		4	ATM 3150 Diesel Technology*		4
ATM 3130 Engine Performance II*		4	ATM 4130 Comprehensive Vehicle Diagnostics*		4
INDM 4210 Industrial Management or MGT 3315 Management of Organizations**		3	BLAW 2720 Legal Environment of Business		3
<b>Semester Total</b>		<b>14</b>	General Education - Literature		3
			<b>Semester Total</b>		<b>18</b>

<b>Summer - Between Junior &amp; Senior Year</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>
ATM 3134 Advanced Powerplant Systems*		3	ATM 3140 Automatic Transmissions*		3
ATM 4032 Hydraulics & Pneumatics		3	ATM 4112 ATM Capstone Experience* <sup>10</sup>		3
COMM 3340 Intercultural Communication (GE) or ECELE 2110 Diversity and Social Justice (GE)		3	ATM 4134 Advanced Vehicle Systems*		2
MKT 3405 Marketing Policy** or HRM 3920 Human Resource Management		3	General Education		6
General Education		3	<b>Semester Total</b>		<b>14</b>
<b>Semester Total</b>		<b>15</b>			

## Automotive Technology Management Major (Area 1: Automotive Tech.), B.S. Degree - 124 hrs

- \*This class is only offered during the semester indicated.
- \*\*By selecting ACCT 2101, MGT 3315, and MKT 3405 in the major students can complete a minor in Business Administration.
- \*\*\*SOT 3022 Internship (3 hours) should be done during the summer between junior/senior year.
- <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 *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.

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

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<b>Freshman Year - Fall Semester</b>		<b>Hrs</b>	<b>Freshman Year - Spring Semester</b>		<b>Hrs</b>
ATM 1010 Contemporary Power Systems*		3	ACST 1300 Basic Statistics or MATH 1131 Applied Calculus		3
ENGL 1020 Composition I (GE)		3	ATM 2124 Automotive Braking Systems*		4
ET 1010 Applied Electricity		4	CADD 1105 Basic AutoCAD+		1
MATH 1111 College Algebra (GE)		3	CADD 1110 Fundamentals of Drafting+		3
<b>Semester Total</b>		<b>13</b>	CADD 1170 Introduction to Computer-Aided Drafting		2
			COMM 1000 Public Speaking (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>
ATM 2110 Engine Theory & Maintenance*		4	ATM 2132 Engine Performance I*		4
ATM 2130 Automotive Electrical Systems*		4	CIS 1600 Business Information Management (GE)		3
ECON 1010 Principles of Macroeconomics (GE)		3	CS 1030 Introduction to Computer Programming (GE)		3
PHYS 1104 Introduction to the Sciences: Physics (GE)		4	CTE 3060 Technical Writing (GE)		3
<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>
ATM 3120 Steering & Suspension Systems*		4	ACCT 2100 Survey of Accounting or		
ATM 3130 Engine Performance II*		4	ACCT 2101 Principles of Financial Accounting**		3
INDM 4210 Industrial Management or			ATM 3150 Diesel Technology*		4
MGT 3315 Management of Organizations**		3	ATM 4130 Comprehensive Vehicle Diagnostics*		4
General Education - Literature		3	BLAW 2720 Legal Environment of Business		3
<b>Semester Total</b>		<b>14</b>	General Education		3
			<b>Semester Total</b>		<b>17</b>

<b>Summer - Between Junior &amp; Senior Year</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>
ATM 3134 Advanced Powerplant Systems*		3	ATM 4112 ATM Capstone Experience* <sup>10</sup>		3
ATM 4032 Hydraulics & Pneumatics		3	ATM 4134 Advanced Vehicle Systems*		3
COMM 3340 Intercultural Communication (GE) or			HRM 3920 Human Resource Management or		2
ECEL 2110 Diversity and Social Justice (GE)		3	MKT 3405 Marketing Policy**		
Major Area 2 Elective#		3-4	General Education		6
<b>Semester Total</b>		<b>12-13</b>	<b>Semester Total</b>		<b>14</b>

## Automotive Technology Management Major (Area 2: Design Tech.), B.S. Degree - 120-121 hours

- \*This class is offered only during the semester indicated.
- +A grade of C or higher is required in these courses for enrollment in future CADD courses.
- \*\*By selecting ACCT 2101, MGT 3315, and MKT 3405 in the major, students can complete a minor in Business Administration.
- \*\*\*SOT 3022 Internship (3 hours) should be done during the summer between junior/senior year.
- #See the 2016 Undergraduate Catalog for acceptable courses for Major Option Area 2 Electives. Three to four 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 *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.

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

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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>
ATM 1010 Contemporary Power Systems*		3	ACST 1300 Basic Statistics or MATH 1131 Applied Calculus		3
ENGL 1020 Composition I (GE)		3	ATM 2124 Automotive Braking Systems*		4
ET 1010 Applied Electricity		4	CIS 1600 Business Information Management (GE)		3
MATH 1111 College Algebra (GE)		3	ECON 1010 Principles of Macroeconomics (GE)		3
<b>Semester Total</b>		<b>13</b>	General Education		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>
ATM 2110 Engine Theory*		4	ATM 2132 Engine Performance I*		4
ATM 2130 Automotive Electrical Systems*		4	BLAW 2720 Legal Environment of Business		3
COMM 1000 Public Speaking (GE)		3	CS 1030 Introduction to Computer Programming (GE)		3
PHYS 1104 Introduction to the Sciences: Physics (GE)		4	CTE 3060 Technical Writing (GE)		3
<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>
ATM 3120 Steering & Suspension Systems*		4	ACCT 2100 Survey of Accounting or		
ATM 3130 Engine Performance II*		4	ACCT 2101 Principles of Financial Accounting**		3
INDM 4210 Industrial Management or			ATM 3150 Diesel Technology*		4
MGT 3315 Management of Organizations**		3	ATM 4130 Comprehensive Vehicle Diagnostics*		4
General Education - Literature		3	Major Option Area 3 Elective#		3
<b>Semester Total</b>		<b>14</b>	<b>Semester Total</b>		<b>14</b>

<b>Summer - Between Junior &amp; Senior Year</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>
ATM 3134 Advanced Powerplant Systems*		3	ATM 4112 ATM Capstone Experience* <sup>10</sup>		3
ATM 4032 Hydraulics & Pneumatics		3	ATM 4134 Advanced Vehicle Systems*		2
COMM 3340 Intercultural Communication (GE) or			Major Option Area 3 Elective#		6
ECEL 2110 Diversity and Social Justice (GE)		3	General Education		3
MKT 3405 Marketing Policy** or			<b>Semester Total</b>		<b>14</b>
HRM 3920 Human Resource Management		3			
General Education		3			
<b>Semester Total</b>		<b>15</b>			

## Automotive Technology Management Major (Area 3: Service Management), B.S. Degree - 120 hours

- \*This class is only offered the semester indicated.
- \*\*By selecting ACCT 2101, MGT 3315, and MKT 3405 in the major students can complete a minor in Business Administration.
- \*\*\*SOT 3022 Internship (3.0 hrs) should be completed in the summer of the Junior/Senior year.
- #See the 2016 Undergraduate Catalog for a listing of the approved elective courses within Option Area 3 of the major.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, [testingservices@ucmo.edu](mailto:testingservices@ucmo.edu)) for more information.

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

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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.

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

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

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

- \*The number of general education hours remaining for the degree will depend on the amount of general education completed as part of the Associates degree earned. UCM requires 42 hours of General Education. This major requires these specific general education classes: ECON 1010, ENGL 1030, MATH 1131, and PHYS 1104.
- \*\*Students will choose an area of concentration from the following options: Area 1 Management Focus (12 hours), Area 2 Maintenance Focus (12 hours), or Area 3 Flight Focus (12 hours). See the 2016 Undergraduate Catalog for the required courses in each area.
- <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 pursuing Area 3 are required to maintain a minimum major core GPA of 2.25 to be eligible for enrollment in FLYA prefix courses. This includes the 23 hours of major core classes.
- The above suggested plan assumes students will choose upper-level (3000/4000) General Education and Major Area Elective courses where available and if required. If some of the courses are transferred from a 2 year institution, they will not count as upper-level hours. Students must earn 30 upper-level hours overall to graduate. Twenty of these hours must be earned at UCM and the major must contain 15 upper-level hours overall (9 of them from UCM).
- A two-year technology related Associate in Aviation Maintenance from an accredited community college or technical institute in this field of study will be accepted for admission into this program.
- The Federal Aviation Administration’s Airframe and Powerplant Certificate is required for admission into this program.
- Forty-two hours of the degree transferred should apply toward the major and the remainder towards General Education. The General Education requirements transferred must be equivalent to UCM’s requirements.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, [testingservices@ucmo.edu](mailto:testingservices@ucmo.edu)) for more information.

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

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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	4	FLYA 1321 Private Flight B	1
FLYA 1320 Private Flight A	1	ECON 1010 Principles of Macroeconomics (GE)	3
ENGL 1020 Composition I (GE)	3	ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE)	3
FIN 1820 Personal Finance (GE)	3	MATH 1131 Applied Calculus (GE)	3
General Education - Managing Information (GE)*	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>
ACCT 2101 Principles of Financial Accounting	3	AVIA 2350 Aviation Weather	3
FLYA 2313 Instrument Flight A	1	FIN 2801 Business Statistics	3
FLYA 2314 Instrument Flight B	1	PHYS 1104 Introduction to the Sciences: Physics (GE)	4
BLAW 2720 Legal Environment of Business	3	PR 2620 Principles of Public Relations	3
General Education - Literature	3	General Education	3
General Education	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>
AVIA 3010 Aerodynamics	3	AVIA 2325 Instrument Rating Ground School	4
MGT 3315 Management of Organizations or INDM 4210 Industrial Management*	3	AVIA 3710 Professional Ethics in Aviation	2
MKT 3405 Marketing Policy	3	AVIA 3080 Air Traffic Control	2
General Education	6	HRM 3920 Human Resource Management	3
<b>Semester Total</b>	<b>15</b>	MGT 3325 Business Communications	3
		<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>
AVIA 4040 Aviation Management	3	AVIA 4380 Flight Operations Management	3
AVIA 4090 Aviation Law	3	AVIA 4999 Integrative Studies Capstone <sup>10</sup>	3
AVIA 4420 Air Transportation or AVIA 4430 Corporate Aviation Management	3	FIN 3850 Principles of Finance	3
AVIA 4500 Aviation Safety	3	Free Choice Electives	5-6
INDM 4250 Project Management	3	<b>Semester Total</b>	<b>14-15</b>
<b>Semester Total</b>	<b>15</b>		

**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.
- Students pursuing Option 1 are required to maintain a minimum Aviation Department Core (29 hours) GPA of 2.25 to be eligible for enrollment in FLYA prefix courses.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, [testingservices@ucmo.edu](mailto:testingservices@ucmo.edu)) for more information.

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

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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</b> - Fall Semester	<b>Hrs</b>	<b>Freshman Year</b> - Spring Semester	<b>Hrs</b>
AVIA 1020 Aeronautics	2	ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE)	3
AVIA 1310 FAA Private Requirements	4	CADD 1105 Basic AutoCAD	1
ENGL 1020 Composition I (GE)	3	CADD 1110 Fundamentals of Drafting	3
FIN 1820 Personal Finance (GE)	3	CADD 1170 Introduction to Computer-Aided Drafting	2
MATH 1131 Applied Calculus (GE)	3	COMM 1000 Public Speaking or COMM 1050 Fundamentals of Oral Communication Competency (GE)	3
<b>Semester Total</b>	<b>15</b>	PHYS 1104 Introduction to the Sciences: Physics (GE)	4
AE 1400 University Foundations*	1	<b>Semester Total</b>	<b>16</b>
<b>Sophomore Year</b> - Fall Semester	<b>Hrs</b>	<b>Sophomore Year</b> - Spring Semester	<b>Hrs</b>
ACCT 2101 Principles of Financial Accounting	3	FIN 2801 Business Statistics I	3
ATM 3010 Transportation Systems	3	PR 2620 Principles of Public Relations	3
BLAW 2720 Legal Environment of Business	3	General Education	9
General Education - Literature	3	<b>Semester Total</b>	<b>15</b>
General Education - Managing Information	2-3		
<b>Semester Total</b>	<b>14-15</b>		
<b>Junior Year</b> - Fall Semester	<b>Hrs</b>	<b>Junior Year</b> - Spring Semester	<b>Hrs</b>
ECON 1010 Principles of Macroeconomics (GE)	3	AVIA 3030 Sport Aviation	2
MGT 3315 Management of Organizations or INDM 4210 Industrial Management**	3	AVIA 3620 Principles of Aviation Accident Causation or SAFE 3000 Principles of Accident Causation & Prevention	3
MGT 3325 Business Communications	3	AVIA 3710 Professional Ethics in Aviation	2
MKT 3405 Marketing Policy	3	FIN 3850 Principles of Finance	3
General Education	3	HRM 3920 Human Resource Management	3
<b>Semester Total</b>	<b>15</b>	General Education	3
		<b>Semester Total</b>	<b>16</b>
<b>Summer</b> - Between Junior/Senior Year	<b>Hrs</b>		
AVIA 3022 Aviation Internship	3		
<b>Semester Total</b>	<b>3</b>		
<b>Senior Year</b> - Fall Semester	<b>Hrs</b>	<b>Senior Year</b> - Spring Semester	<b>Hrs</b>
AVIA 4040 Aviation Management	3	AVIA 4045 Airport Management	3
AVIA 4046 Airport Certification	3	AVIA 4090 Aviation Law	3
AVIA 4500 Aviation Safety	3	AVIA 4420 Air Transportation or AVIA 4430 Corporate Aviation Management	3
INDM 4250 Project Management	3	AVIA 4999 Integrative Studies Capstone <sup>10</sup>	3
Free Choice Elective	2	Free Choice Elective	3
<b>Semester Total</b>	<b>14</b>	<b>Semester Total</b>	<b>12</b>

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

- \*AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- \*\*Students are encouraged to consider adding a Business Administration minor. If interested in the minor option, students should take MGT 3315 instead of INDM 4210. In addition, CIS 1600 would be needed in the Managing Information section of general education to complete the minor.
- <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 *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.



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

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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	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	MATH 1152 Calculus & Analytic Geometry II#++	5
<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>
BIOL 2512 Cell Biology	3	CHEM 3212 Quantitative Analysis	4
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 - Literature	3	General Education	3
<b>Semester Total</b>	<b>14-15</b>	<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>
BIOL 3511 Genetics (fall only)	4	BIOL 4514 Molecular Biology	3
CHEM 4531 Physical Chemistry: Thermodynamics & Kinetics**	4	BIOL 4515 Molecular Technology	3
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>16-18</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	6	Free Choice Electives***	8-11
Free Choice Electives***	1	<b>Semester Total</b>	<b>13-16</b>
<b>Semester Total</b>	<b>12-14</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.
- ++MATH 1152 is not a major required classes, however it is required for enrollment in CHEM 4531. This class will count towards the 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.
- \*\*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 2016 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 *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.

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

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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 - Spring Semester		Hrs
BIOL 1000 The Discipline of Biology		1	BIOL 1111 Plant Biology		4
BIOL 1110 Principles of Biology		3	ENGL 1020 Composition I (GE)		3
MATH 1111 College Algebra (GE)		3	General Education		9
General Education		8	<b>Semester Total</b>		<b>16</b>
<b>Semester Total</b>		<b>15</b>			

Sophomore Year - Fall Semester		Hrs	Sophomore Year - Spring Semester		Hrs
BIOL 1112 Animal Biology+		4	BIOL 2020 General Ecology		3
CHEM 1131 General Chemistry I (GE)+		5	CHEM 1132 General Chemistry II		5
ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE)		3	Life Science Electives*		5-6
General Education		3	General Education - Literature		3
<b>Semester Total</b>		<b>15</b>	<b>Semester Total</b>		<b>16-17</b>

Junior Year - Fall Semester		Hrs	Junior Year - Spring Semester		Hrs
BIOL 3511 Genetics (fall only)		4	BIOL 2512 Cell Biology		3
Life Science Electives*		4-5	BIOL 4013 Introductory Experimental Design & Analysis		3
General Education		6	BIOL 4102 Evolution		3
<b>Semester Total</b>		<b>14-15</b>	Free Choice Electives		6
			<b>Semester Total</b>		<b>15</b>

Senior Year - Fall Semester		Hrs	Senior Year - Spring Semester		Hrs
BIOL 3611 Microbiology		4	BIOL 4001 Ecology Senior Seminar		1
Ecology/Wildlife Biology Elective**		4	BIOL 4222 The Biological Perspective <sup>10</sup>		3
Free Choice Electives		6	Free Choice Electives		10
<b>Semester Total</b>		<b>14</b>	<b>Semester Total</b>		<b>14</b>

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

- +A grade of C or higher is required in this course as a prerequisite for BIOL 3611.
- \*This major requires 10 hours (3-5 courses) of Life Science Electives. Choose appropriate classes from the list in the Undergraduate Catalog/Central Degree Audit.
- \*\*This major requires 4 hours (1 course) of Ecology/Wildlife Biology Electives. Choose an appropriate class from the list in the Undergraduate Catalog/Central Degree Audit.
- <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 *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.

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

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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</b> - Fall Semester	<b>Hrs</b>	<b>Freshman Year</b> - Spring Semester	<b>Hrs</b>
BIOL 1000 The Discipline of Biology	1	BIOL 1111 Plant Biology	4
BIOL 1110 Principles of Biology	3	CHEM 1131 General Chemistry I (GE)#	5
MATH 1111 College Algebra (GE)	3	ENGL 1020 Composition I (GE)	3
General Education	8	General Education	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>

<b>Sophomore Year</b> - Fall Semester	<b>Hrs</b>	<b>Sophomore Year</b> - Spring Semester	<b>Hrs</b>
BIOL 1112 Animal Biology	4	BIOL 2020 General Ecology	3
BIOL 3711 Plant Identification	4	BIOL Major Area Elective*	4
ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE)	3	CHEM 1132 General Chemistry II	5
General Education	3	General Education - Literature	3
<b>Semester Total</b>	<b>14</b>	<b>Semester Total</b>	<b>15</b>

<b>Junior Year</b> - Fall Semester	<b>Hrs</b>	<b>Junior Year</b> - Spring Semester	<b>Hrs</b>
BIOL 2512 Cell Biology	3	BIOL 4013 Introductory Experimental Design & Analysis	3
BIOL Major Area Elective*	4	BIOL Major Area Elective*	4
General Education	9	General Education (not needed if BIOL 2510 chosen)**	0-3
<b>Semester Total</b>	<b>16</b>	Free Choice Electives** (6 hrs needed if BIOL 2510 chosen)	4-7
		<b>Semester Total</b>	<b>14</b>

<b>Senior Year</b> - Fall Semester	<b>Hrs</b>	<b>Senior Year</b> - Spring Semester	<b>Hrs</b>
BIOL 2510 Basic Genetics (GE)** or BIOL 3511 Genetics (fall only)	3-4	BIOL 4001 Ecology Senior Seminar	1
BIOL 3610 Basic Microbiology or BIOL 3611 Microbiology	3-4	BIOL 4102 Evolution	3
BIOL Major Area Elective*	4	BIOL 4222 The Biological Perspective <sup>10</sup>	3
Free Choice Electives	3-4	Free Choice Electives***	9
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>16</b>

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

- #A grade of C or better is required to enroll in CHEM 1132.
- \*This major requires 16 hours of major electives, 8 hours each from two different course lists. See the 2016 Undergraduate Catalog or Central Degree Audit for the lists of appropriate Biology major area electives.
- \*\*If BIOL 2510 is chosen this class will also count in the General Education program. If chosen, 3 additional hours of free choice electives will be needed.
- \*\*\*Students interested in government agency jobs are strongly encouraged to consider taking GEOG 4220 Geographic Information Systems (3 credit hours) as a free elective choice.
- <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 *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.

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

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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	1	BIOL 1111 Plant Biology	4
BIOL 1110 Principles of Biology	3	BIOL 1112 Animal Biology	4
MATH 1111 College Algebra (GE)	3	ENGL 1020 Composition I (GE)	3
General Education	9	General Education	3
<b>Semester Total</b>	<b>16</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 2020 General Ecology	3	BIOL 2512 Cell Biology	3
CHEM 1131 General Chemistry I (GE)	5	BIOL 3721 Wildlife Management	3
ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE)	3	CHEM 1132 General Chemistry II	5
General Education	3	General Education - Literature	3
<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>
BIOL 2510 Basic Genetics (GE)* or BIOL 3511 Genetics (fall only)**	3-4	BIOL 3610 Basic Microbiology or BIOL 3611 Microbiology	3-4
BIOL 3711 Plant Identification	4	BIOL 4013 Introductory Experimental Design & Analysis	3
General Education	6	BIOL 4102 Evolution	3
General Education - Managing Information	2-3	General Education or Free Choice Elective (depends on BIOL 2510 or 3511 choice)	3
<b>Semester Total</b>	<b>15-17</b>	Free Choice Electives	3-4
		<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>
BIOL 4919 Wildlife Policy and Law	3	BIOL 4001 Ecology Senior Seminar	1
Major Area Elective+	4	BIOL 4222 The Biological Perspective <sup>10</sup>	3
Free Choice Electives++	9	Major Area Elective+	4
<b>Semester Total</b>	<b>16</b>	Free Choice Electives++	6
		<b>Semester Total</b>	<b>14</b>

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

- \*If BIOL 2510 is chosen in the major, this class will also count in general education and additional hours of free choice electives will be needed to reach 120 hours for graduation.
- \*\*BIOL 3511 is only offered in the fall semester.
- +This major requires 8 hours of major electives. See the 2016 Undergraduate Catalog or Central Degree Audit for the list of appropriate major area electives.
- ++Students interested in government agency jobs are strongly encouraged to consider taking GEOG 4220 Geographic Information Systems (3 credit hours) as a free elective choice.
- <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 *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.

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

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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	1	BIOL 1111 Plant Biology	4
BIOL 1110 Principles of Biology	3	ENGL 1020 Composition I (GE)	3
MATH 1111 College Algebra (GE)	3	General Education	9
General Education	8	<b>Semester Total</b>	<b>16</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 3711 Plant Identification	4	BIOL 2512 Cell Biology	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 - Literature	3
General Education	3	General Education	3
<b>Semester Total</b>	<b>15</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 2020 General Ecology	3	BIOL 4102 Evolution	3
BIOL 3511 Genetics (fall only)	4	Major Area Elective*	3-4
PHYS 1101 College Physics I (GE)	4	Free Choice Electives**	9
Major Area Elective*	3-4	<b>Semester Total</b>	<b>15-16</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>
BIOL 4013 Introduction to Experimental Design and Analysis	3	BIOL 4002 Life Science Senior Seminar	1
BIOL 4709 Plant Ecology	4	BIOL 4411 Plant Physiology	4
Free Choice Electives***	8-10	BIOL 4222 The Biological Perspective <sup>10</sup>	3
<b>Semester Total</b>	<b>15-17</b>	Free Choice Electives**	6
		<b>Semester Total</b>	<b>14</b>

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

- #A grade of C or higher is required to enroll in CHEM 1132.
- \*This major requires 6-8 hours of major electives. See the 2016 Undergraduate Catalog or Central Degree Audit for list of appropriate major area electives for the Plant Biology Emphasis.
- \*\*The number of free choice electives required will depend on selections made in the major and general education.
- <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 *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.

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

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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	1	BIOL 1112 Animal Biology	4
BIOL 1110 Principles of Biology	3	CHEM 1131 General Chemistry I (GE)#	5
MATH 1111 College Algebra (GE)	3	ENGL 1020 Composition I (GE)	3
General Education	8	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 2020 General Ecology	3	BIOL 2512 Cell Biology	3
CHEM 1132 General Chemistry II	5	PHYS 1101 College Physics I (GE)	4
ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE)	3	General Education - Literature	3
General Education	3	General Education	6
<b>Semester Total</b>	<b>14</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 3431 Animal Physiology	4	BIOL 3211 Comparative Anatomy	4
BIOL 3511 Genetics (fall only)	4	BIOL 4102 Evolution	3
General Education	3	Major Area Elective*	3-4
Free Choice Electives**	3	Free Choice Electives**	6
<b>Semester Total</b>	<b>14</b>	<b>Semester Total</b>	<b>16-17</b>
<b>Senior Year - Fall Semester</b>	<b>Hrs</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs</b>
BIOL 4013 Introduction to Experimental Design and Analysis	3	BIOL 4002 Life Science Senior Seminar	1
Major Area Elective*	3-4	BIOL 4711 Animal Ecology	4
Free Choice Electives**	8-9	BIOL 4222 The Biological Perspective <sup>10</sup>	3
<b>Semester Total</b>	<b>15</b>	Free Choice Electives**	6-7
		<b>Semester Total</b>	<b>14-15</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.
- \*This major requires 6-8 hours of major electives. See the 2016 Undergraduate Catalog or Central Degree Audit for list of appropriate major area electives for the Animal Biology Emphasis..
- \*\*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 *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.

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

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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.

<p><b>Freshman Year</b> - Fall Semester                      BIOL 1000 The Discipline of Biology                      BIOL 1110 Principles of Biology                      MATH 1111 College Algebra (GE)*                      General Education  <b>Semester Total</b></p>	<p><b>Hrs</b>                      1                      3                      3                      9  <b>16</b></p>	<p><b>Freshman Year</b> - Spring Semester                      ACST 1300 Basic Statistics (GE)                      BIOL 1111 Plant Biology or BIOL 1112 Animal Biology or                      BIOL 3611 Microbiology**                      CHEM 1131 General Chemistry I (GE)*##                      ENGL 1020 Composition I (GE)  <b>Semester Total</b></p>	<p><b>Hrs</b>                      3                      4                      5                      3  <b>15</b></p>
<p><b>Sophomore Year</b> - Fall Semester                      BIOL 2512 Cell Biology                      CHEM 1132 General Chemistry II                      ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE)                      General Education  <b>Semester Total</b></p>	<p><b>Hrs</b>                      3                      5                      3                      3  <b>14</b></p>	<p><b>Sophomore Year</b> - Spring Semester                      BIOL 2020 General Ecology                      General Education - Literature                      General Education  <b>Semester Total</b></p>	<p><b>Hrs</b>                      3                      3                      8  <b>14</b></p>
<p><b>Junior Year</b> - Fall Semester                      BIOL 3511 Genetics (fall only)                      Major Area Electives++                      General Education                      Free Choice Electives  <b>Semester Total</b></p>	<p><b>Hrs</b>                      4                      6-8                      3                      3  <b>16-18</b></p>	<p><b>Junior Year</b> - Spring Semester                      BIOL 4102 Evolution (spring only)                      BIOL 4514 Molecular Biology (spring only)                      BIOL 4515 Molecular Technology                      Major Area Electives++  <b>Semester Total</b></p>	<p><b>Hrs</b>                      3                      3                      3                      6-8  <b>15-17</b></p>
<p><b>Senior Year</b> - Fall Semester                      Major Area Electives++                      Free Choice Electives  <b>Semester Total</b></p>	<p><b>Hrs</b>                      0-4                      10-14  <b>14</b></p>	<p><b>Senior Year</b> - Spring Semester                      BIOL 4002 Life Science Senior Seminar                      BIOL 4222 The Biological Perspective<sup>10</sup>                      Free Choice Electives  <b>Semester Total</b></p>	<p><b>Hrs</b>                      1                      3                      8-12  <b>12-16</b></p>

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

- \*A grade of C or higher in MATH 1111 is recommended for enrollment in CHEM 1131. Although an ACT math score of 21 or higher allows placement into CHEM 1131, it is not generally recommended. It is recommended that MATH 1111 is taken before CHEM 1131.
- #A grade of C or better is required to enroll in CHEM 1132.
- +A grade of C or higher is required in this course as a prerequisite for BIOL 3611.
- \*\*Enrollment in BIOL 3611 also requires completion of BIOL 1112 or BIOL 3402 with a grade of C or better.
- ++This major requires 16 hours of major area electives. See the 2016 Undergraduate Catalog or Central Degree Audit for the list of appropriate major area 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 *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.

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

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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	1	BIOL 1112 Animal Biology#	4
BIOL 1110 Principles of Biology	3	CHEM 1131 General Chemistry I (GE)*#	5
BIOL 1111 Plant Biology	4	ENGL 1020 Composition I (GE)	3
MATH 1111 College Algebra (GE)*	3	General Education	3
General Education	5	<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 2512 Cell Biology	3	CHEM 3341 Organic Chemistry I#	4
BIOL 3511 Genetics (fall only)	4	PHYS 1101 College Physics I (GE)	4
CHEM 1132 General Chemistry II#	5	General Education - Literature	3
ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE)	3	General Education	3
<b>Semester Total</b>	<b>15</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 2020 General Ecology	3	BIOL 3211 (4) Comparative Anatomy or	
BIOL 3611 Microbiology	4	BIOL 3401(3) Human Anatomy	3-4
General Education	9	BIOL 4102 Evolution	3
<b>Semester Total</b>	<b>16</b>	Major Area Electives**	6-7
		General Education	3
		<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>
BIOL 3431 (4) Animal Physiology or		BIOL 4002 Life Science Senior Seminar	1
BIOL 3402 (5) Human Physiology	4-5	BIOL 4222 The Biological Perspective <sup>10</sup>	3
Major Area Electives**	5-6	Free Choice Electives	9-11
Free Choice Electives	5-7	<b>Semester Total</b>	<b>13-15</b>
<b>Semester Total</b>	<b>15</b>		

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

- \*A grade of C or higher in MATH 1111 is recommended for enrollment in CHEM 1131. Although an ACT math score of 21 or higher allows placement into CHEM 1131, it is not generally recommended. It is recommended that MATH 1111 is taken before CHEM 1131.
- #A grade of C or better is required to enroll in future major coursework. See the Undergraduate Catalog for more information.
- \*\*Twelve hours of major electives are required. See the 2016 Undergraduate Catalog or the Central Degree Audit for the list of appropriate major area electives. CHEM 3421 and 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.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, [testingservices@ucmo.edu](mailto:testingservices@ucmo.edu)) for more information.



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

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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.

<p><b>Freshman Year - Fall Semester</b>                      BIOL 1000 The Discipline of Biology                      BIOL 1110 Principles of Biology                      ENGL 1020 Composition I (GE)                      MATH 1111 College Algebra (GE)                      General Education  <b>Semester Total</b></p>	<p><b>Hrs</b>                      1                      3                      3                      3                      5  <b>15</b></p>	<p><b>Freshman Year - Spring Semester</b>                      BIOL 1111 Plant Biology                      CJ 1000 Introduction to Criminal Justice (GE)                      General Education  <b>Semester Total</b></p>	<p><b>Hrs</b>                      4                      3                      9  <b>16</b></p>
<p><b>Sophomore Year - Fall Semester</b>                      BIOL 1112 Animal Biology                      CHEM 1131 General Chemistry I (GE)                      CTE 3060 Technical Writing (GE)                      General Education  <b>Semester Total</b></p>	<p><b>Hrs</b>                      4                      5                      3                      3  <b>15</b></p>	<p><b>Sophomore Year - Spring Semester</b>                      BIOL 2020 General Ecology                      BIOL 2510 Basic Genetics (GE)                      CHEM 1132 General Chemistry II                      General Education - Literature  <b>Semester Total</b></p>	<p><b>Hrs</b>                      3                      3                      5                      3  <b>14</b></p>
<p><b>Junior Year - Fall Semester</b>                      BIOL 3610 Basic Microbiology                      BIOL 3711 Plant Identification                      CJ 2300 Criminal Law and Procedure                      PR 2620 Principles of Public Relations                      General Education  <b>Semester Total</b></p>	<p><b>Hrs</b>                      3                      4                      3                      3                      3  <b>16</b></p>	<p><b>Junior Year - Spring Semester</b>                      BIOL 2512 Cell Biology                      BIOL 3721 Wildlife Management                      BIOL 4919 Wildlife Policy and Law                      Free Choice Electives**  <b>Semester Total</b></p>	<p><b>Hrs</b>                      3                      3                      3                      6  <b>15</b></p>
<p><b>Senior Year - Fall Semester</b>                      BIOL 4102 Evolution                      CJ 4302 Criminal Evidence                      Major Electives*                      Free Choice Electives**  <b>Semester Total</b></p>	<p><b>Hrs</b>                      3                      3                      3-4                      5-6  <b>15</b></p>	<p><b>Senior Year - Spring Semester</b>                      BIOL 4001 Ecology Senior Seminar                      BIOL 4222 The Biological Perspective<sup>10</sup>                      Major Electives*                      Free Choice Electives**  <b>Semester Total</b></p>	<p><b>Hrs</b>                      1                      3                      4                      6  <b>14</b></p>

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

- \*This major requires 7-8 hours of major area electives from two different lists. See the 2016 Undergraduate Catalog or Central Degree Audit for the 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.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, [testingservices@ucmo.edu](mailto:testingservices@ucmo.edu)) for more information.

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

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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 - Spring Semester		Hrs
BIOL 1000 The Discipline of Biology		1	BIOL 1112 Animal Biology+		4
BIOL 1111 Plant Biology		4	CHEM 1131 Chemistry I (GE)+		5
EASC 1004 Introduction to Geology (GE)		4	ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE)		3
ENGL 1020 Composition I (GE)		3	POLS 1510 American Government (GE)		3
MATH 1111, 1131, 1150, or 1151 (GE)		3-5	General Education - Managing Information		2
<b>Semester Total</b>		<b>15-17</b>	<b>Semester Total</b>		<b>17</b>

Sophomore Year - Fall Semester		Hrs	Sophomore Year - Spring Semester		Hrs
BIOL 2512 Cell Biology		3	BIOL 2020 General Ecology		3
BIOL 3511 Genetics (fall only)		4	EDSP 2100 Education of the Exceptional Child		3
EDFL 2100 Introduction to the Teaching Profession		3	PHYS 1101 Physics I (4) or		
FLDX 2150 Introductory Field Experience		1	PHYS 1104 Introduction to Sciences: Physics (4)		4
EDFL 2240 Educational Psychology (GE)		3	STCH 3020 Science and Engineering Practices		3
HIST 1350 or 1351 History of the United States (GE)		3	General Education - Literature		3
<b>Semester Total</b>		<b>17</b>	<b>Semester Total</b>		<b>16</b>

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

Junior Year - Fall Semester		Hrs	Junior Year - Spring Semester		Hrs
BIOL, CHEM, EASC, or PHYS 3XXX-4XXX elective		3	BIOL 3611 Microbiology or		
BIOL 3611 Microbiology or			BIOL 4411 Plant Physiology (spring only)*		4
BIOL 3431 Animal Physiology (fall only)*		4	EDFL 4210 Introduction to Content Area Literacy		2
General Education		9	EDFL 4212 Literacy in the Disciplines I		2
<b>Semester Total</b>		<b>16</b>	EDFL 4973 Classroom Management in Content Areas		1
			EDFL 4974 Content Specific Assessment		1
			FLDX 3000 Field Experience in the Content Area**		1
			PSY 4230 Psychology of Adolescence		3
			STCH 4050 Science Teaching Methods**		3
			<b>Semester Total</b>		<b>17</b>

Senior Year - Fall Semester		Hrs	Senior Year - Spring Semester***		Hrs
BIOL 3712 Field Natural History		4	FLDX 4468 Student Teaching Secondary II <sup>10</sup>		4
EDFL 2250 Introduction to English Language Learners and Culturally Responsive Pedagogy		2	FLDX 4595 Student Teaching Secondary I		5
EDFL 4970 Secondary Teaching & Behavior Management		2	STCH 4080 Teaching Secondary Science		3
EDFL 4972 Literacy in the Disciplines II		2	<b>Semester Total</b>		<b>12</b>
FLDX 4970 Field Experience II in the Content Area		1			
General Education		3			
<b>Semester Total</b>		<b>14</b>			

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

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

- +A grade of C or higher is required in this course as a prerequisite for BIOL 3611.
- \*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.

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

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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 - Spring Semester		Hrs
BIOL 1000 The Discipline of Biology		1	BIOL 1112 Animal Biology+		4
BIOL 1111 Plant Biology		4	CHEM 1131 General Chemistry I (GE)+		5
EASC 1004 Introduction to Geology (GE)		4	ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE)		3
ENGL 1020 Composition I (GE)		3	POLS 1510 American Government (GE)		3
MATH 1111, 1131, 1150, or 1151 (GE)		3-5	General Education - Managing Information		2
<b>Semester Total</b>		<b>15-17</b>	<b>Semester Total</b>		<b>17</b>

Sophomore Year - Fall Semester		Hrs	Sophomore Year - Spring Semester		Hrs
BIOL 2512 Cell Biology		3	BIOL 2020 General Ecology		3
BIOL 3511 Genetics (fall only)		4	CHEM 1131 General Chemistry II		5
EDFL 2100 Introduction to the Teaching Profession		3	EDSP 2100 Education of the Exceptional Child		3
FLDX 2150 Introductory Field Experience		1	PHYS 1101 College Physics I		4
EDFL 2240 Educational Psychology (GE)		3	STCH 3020 Science and Engineering Practices		3
HIST 1350 or 1351 History of the United States (GE)		3	<b>Semester Total</b>		<b>18</b>
<b>Semester Total</b>		<b>17</b>	<i>(Successfully complete MoGEA exam by end of this semester)</i>		

Junior Year - Fall Semester		Hrs	Junior Year - Spring Semester		Hrs
BIOL 3611 Microbiology or BIOL 3431 Animal Physiology (fall only)*		4	BIOL 3611 Microbiology or BIOL 4411 Plant Physiology (spring only)*		4
EASC 1114 or GEOG 1114 Weather & Climate		4	EDFL 4210 Introduction to Content Area Literacy		2
PHYS 1102 College Physics II		4	EDFL 4212 Literacy in the Disciplines I		2
General Education - Literature		3	EDFL 4973 Classroom Management in Content Areas		1
General Education		3	EDFL 4974 Content Specific Assessment		1
<b>Semester Total</b>		<b>18</b>	FLDX 3000 Field Experience in the Content Area**		1
			PSY 4230 Psychology of Adolescence		3
			STCH 4050 Science Teaching Methods**		3
			<b>Semester Total</b>		<b>17</b>

Junior Year - Summer Semester	Hrs
General Education	6
<b>Semester Total</b>	<b>6</b>

Senior Year - Fall Semester		Hrs	Senior Year - Spring Semester***		Hrs
BIOL 3712 Field Natural History		4	FLDX 4468 Student Teaching Secondary II <sup>10</sup>		4
EDFL 2250 Introduction to English Language Learners and Culturally Responsive Pedagogy		2	FLDX 4595 Student Teaching Secondary I		5
EDFL 4970 Secondary Teaching & Behavior Management		2	STCH 4080 Teaching Secondary Science		3
EDFL 4972 Literacy in the Disciplines II		2	<b>Semester Total</b>		<b>12</b>
FLDX 4970 Field Experience II in the Content Area		1	<i>(All non-student teaching coursework and tests must be successfully completed by the start of this semester for enrollment in student teaching.)</i>		
General Education		3			
<b>Semester Total</b>		<b>14</b>			

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

- +A grade of C or higher is required in this course as a prerequisite for BIOL 3611.
- \*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 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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		Freshman Year - Spring Semester	
BTE 1210 Essentials of Managing Information (GE)	Hrs 2	ECON 1010 Principles of Macroeconomics (GE)	Hrs 3
ENGL 1020 <i>Composition I (GE)</i>	3	ENGL 1030 <i>Composition II or CTE 3060 Tech. Writing (GE)</i>	3
General Education - Mathematics	3	HIST 1350 or 1351 <i>History of the United States (GE)</i>	3
General Education - Science with Laboratory	4	POLS 1510 American Government (GE)	3
General Education (COMM 1000 or 1050 recommended to meet MGT 3325 prerequisite)	3	General Education	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>

Sophomore Year - Fall Semester		Sophomore Year - Spring Semester	
ACCT 2100 Survey of Accounting	Hrs 3	BLAW 2720 Legal Environment Business	Hrs 3
EDFL 2100 Introduction to the Teaching Profession	3	BTE 3110 Consumer Finance & Economics	3
FLDX 2150 Introductory Field Experience	1	General Education	9
EDFL 2240 Educational Psychology	3	<b>Semester Total</b>	<b>15</b>
EDSP 2100 Education of Exceptional Child	3	<i>(Successfully complete MoGEA exam by end of this semester)</i>	
General Education - Literature	3		
<b>Semester Total</b>	<b>16</b>		

Junior Year - Fall Semester		Junior Year - Spring Semester	
ACCT 2101 Principles of Financial Accounting	Hrs 3	BTE 4241 Coordination of Cooperative Education Programs	Hrs 3
MGT 3315 Management of Organizations	3	CTE 4145 Curriculum Construction in CTE	3
MGT 3325 Business Communications	3	EDFL 2250 Introduction to English Language Learners and Culturally Responsive Pedagogy#	2
MKT 3400 Principles of Marketing	3	EDFL 4210 Introduction to Content Area Literacy	2
PSY 4230 Psychology of Adolescence	3	EDFL 4212 Literacy in the Disciplines I	2
Computer/Emerging Technology Major Elective*	2-3	FLDX 3000 Field Experience in the Content Area#	1
<b>Semester Total</b>	<b>17-18</b>	Computer/Emerging Technology Major Electives*	2-3
		<b>Semester Total</b>	<b>15-16</b>
		<i>Apply for Student Teaching</i>	

Senior Year - Fall Semester		Senior Year - Spring Semester***	
BTE 4210 Methods of Teaching Business Edu. (fall/sum. only)	Hrs 3	CTE 4974 Educational Evaluation & Strategies	Hrs 2
BTE 4280 Business and Marketing Education**	3	FLDX 4468 Student Teaching Secondary II <sup>10</sup>	5
CTE 4972 CTE Principles & Content Reading	2	FLDX 4595 Student Teaching Secondary I	5
CTE 4973 CTE Classroom and Lab Management Techniques	1	<b>Semester Total</b>	<b>12</b>
EDFL 4970 Behavioral Management	2	<i>(All non-student teaching coursework and tests must be successfully completed before this semester for enrollment in student teaching.)</i>	
FLDX 4970 Field Experience II in the Content Area	1		
Computer/Emerging Technology Major Electives*	0-2		
Free Choice Elective	1		
<b>Semester Total</b>	<b>13-15</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.
- \*\*BTE 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 Sciences Tchr. Edu.) (41-02564)**

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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	CHEM 1104 Introduction to the Sciences: Chemistry (GE)		4
CFD 1220 Child Development		3	ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE)		3
ENGL 1020 Composition I (GE)		3	POLS 1510 American Government (GE)		3
HM 1800 Introduction to Hospitality (fall only)		3	General Education		6
General Education - Mathematics		3	<b>Semester Total</b>		<b>16</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>
FAME 1450 Fund. of Apparel Design and Construction		3	FAME 2442 Textile Science		3
FOOD 2320 Sanitation & Safety		1	FCSE 2000 FCS Student Organizations (spring only)		1
EDFL 2100 Introduction to the Teaching Profession		3	FOOD 2322 Food Preparation		3
FLDX 2150 Introductory Field Experience		1	HIST 1350 or 1351 History of the United States (GE)		3
EDFL 2240 Educational Psychology		3	General Education - Literature		3
EDSP 2100 Education of the Exceptional Child		3	General Education		3
General Education - Managing Information		2-3	<b>Semester Total</b>		<b>16</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>		<b>Hrs</b>
BTE 3110 Consumer Finance & Economics		3	CFD 3240 Parent-Child Interaction (spring only)		3
CFD 3230 Family Systems & Lifespan Development (fall only)		3	CTE 4145 Curriculum Construction for CTE		3
CFD 4220 Sexuality Across the Lifespan or HED 1100 Personal Health (GE) or HED 4320 Teaching Sexuality Ed. in the School (fall odd years only)		3	EDFL 2250 Introduction to English Language Learners and Culturally Responsive Pedagogy##		2
D&N 3340 Nutrition		3	FCSE 3120 Family Resource Management (spring only)		3
EDFL 4210 Introduction to Content Area Literacy		2	FLDX 3000 Field Experience in the Content Area##		1
EDFL 4212 Literacy in the Disciplines I		2	PSY 4230 Psychology of Adolescence		3
FCSE 3710 Found. of Family Consumer Sci. Educ. (fall only)##		3	General Education (needed if HED 1100 is not chosen)		0-3
<b>Semester Total</b>		<b>19</b>	<b>Semester Total</b>		<b>15-18</b>

<b>Senior Year - Fall Semester</b>		<b>Hrs</b>	<b>Senior Year - Spring Semester**</b>		<b>Hrs</b>
CTE 4972 CTE Principles & Content Reading (fall only)		2	CTE 4974 Educational Evaluation & Strategies		2
CTE 4973 CTE Classroom and Lab Management Techniques		1	FLDX 4468 Student Teaching Secondary II <sup>10</sup>		5
EDFL 4970 Secondary Teaching & Behavioral Management		2	FLDX 4495 Student Teaching Elementary I		5
FLDX 4970 Field Experience II in the Content Area		1	<b>Semester Total</b>		<b>12</b>
FCSE 4740 Methods of Teaching Fam. Cons. Sci. (fall only)		3	<i>(All non-student teaching coursework and tests must be successfully completed by the start of this semester for enrollment in student teaching.)</i>		
FAME 4410 Materials for Interior Furnishings		3			
General Education		3			
<b>Semester Total</b>		<b>15</b>			

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

- \* AE 1400 is a free choice elective and is highly recommended for academic success; however, this major does not require any free choice electives.
- \*\* The courses listed for this semester constitute the professional education (student teaching) block. The student should not take any other courses during this semester.
- # A grade of C or better is required in this course for enrollment into FCSE 4740.
- ## These courses must be taken concurrently.
- <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 & Technology Teacher Education Major, B.S. in Ed. Degree (Area 3: Engineering & Technology Teacher Education) (41-03564)**

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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>
CTE 1300 Introduction to Engineering Design (fall only)		3	CADD 1170 Introduction to Computer-Aided Drafting		2
<i>ENGL 1020 Composition I (GE)</i>		3	<i>HIST 1350 or 1351 History of the United States (GE)</i>		3
ENGT 1120 Welding		3	<i>PHYS 1104 Introduction to the Sciences: Physics (Lab) (GE)</i>		4
CADD 1105 Basic AutoCAD*		1	General Education		6
<i>MATH 1111 College Algebra or MATH 1620 Contemp. Math</i>		3	<b>Semester Total</b>		<b>15</b>
<i>POLS 1510 American Government (GE)</i>		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>
<i>CTE 3060 Technical Writing (GE)</i>		3	CMGT 1300 Introduction to Construction Management		3
EDFL 2100 Introduction to the Teaching Profession		3	CTE 2000 Technology & Society (GE)		3
FLDX 2150 Introductory Field Experience		1	ET 1020 General Electronics		3
EDFL 2240 Educational Psychology (GE)		3	General Education - Literature		3
EDSP 2100 Education of the Exceptional Child		3	General Education		3
ENGT 1510 Introduction to Manufacturing Processes		3	<b>Semester Total</b>		<b>15</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>
ATM 1010 Contemporary Power Systems (fall only)		3	EDFL 2250 Introduction to English Language Learners and Culturally Responsive Pedagogy#		2
CTE 3116 Creative Thinking for a Better World (GE)		3	EDFL 4210 Introduction to Content Area Literacy		2
CTE 4145 Curriculum Construction CTE		3	EDFL 4212 Literacy in the Disciplines I		2
Departmentally Approved Science & Tech. Major Electives**		3	FLDX 3000 Field Experience in the Content Area#		1
General Education		3	SOT 4570 Computer Graphics		3
<b>Semester Total</b>		<b>15</b>	Departmentally Approved Science & Tech. Major Electives**		6
			<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>
CTE 4160 Methods of Teaching CTE		3	CTE 4974 Educational Evaluation & Strategies		2
CTE 4972 CTE Principles & Content Reading (fall only)		2	FLDX 4468 Student Teaching Secondary II <sup>10</sup>		5
CTE 4973 CTE Classroom and Lab Management Techniques		1	FLDX 4595 Student Teaching Secondary I		5
EDFL 4970 Secondary Teaching & Behavioral Management		2	<b>Semester Total</b>		<b>12</b>
FLDX 4970 Field Experience II in the Content Area		1	<i>(All non-student teaching coursework and tests must be successfully completed by the start of this semester for enrollment in student teaching.)</i>		
PSY 4230 Psychology of Adolescence		3			
Departmentally Approved Science & Tech. Major Electives**		3			
<b>Semester Total</b>		<b>15</b>			

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

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

- \*A grade of C or higher is required in CADD 1105 in order to enroll in CADD 1170.
- \*\*The program requires 12 hours of Departmentally Approved Science & Technology Major Electives. See program coordinator for recommendations.
- \*\*\*The courses listed for this semester constitute the professional education (student teaching) block. The student should not take any other courses during this semester.
- #These course must be taken concurrently.
- <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.

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

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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	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>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	CHEM 3342 Organic Chemistry II#		4
PHYS 1101 College Physics I (GE)		4	PHYS 1102 College Physics II#		4
General Education - Literature		3	General Education		6
General Education		3	<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>
CHEM 3111 Intermediate Inorganic Chemistry***#		4	CHEM 3920 Communication Skills in Chemistry*** <sup>10</sup>		2
CHEM 3212 Quantitative Analysis#		4	CHEM 4231 Instrumental Analysis***		4
CHEM 3421 Intermediate Biochemistry#		3	CHEM 4910 Research in Chemistry		1
CHEM 4910 Research in Chemistry		1	General Education		6
General Education		3	Free Choice Electives		2
<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 4111 Advanced Inorganic Chemistry or CHEM 4313 Advanced Organic Chemistry		3	CHEM 4421 Advanced Biochemistry		3
CHEM 4531 Physical Chemistry I***		4	CHEM 4532 Physical Chemistry II***		4
CHEM 4910 Research in Chemistry		1	CHEM 4910 Research in Chemistry		1
Free Choice Electives		8	Free Choice Electives		6-7
<b>Semester Total</b>		<b>16</b>	<b>Semester Total</b>		<b>14-15</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 *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.

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

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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>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	CHEM 3342 Organic Chemistry II	4
ET 1010 Applied Electricity	4	GEOG 2212 World Geography (GE)	3
PHYS 1101 College Physics I (GE)	4	PHYS 1102 College Physics II#	4
General Education - Literature	3	General Education	3
<b>Semester Total</b>	<b>15</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>
CHEM 3111 Intermediate Inorganic Chemistry***	4	CHEM 3920 Communication Skills in Chemistry*** <sup>10</sup>	2
CHEM 3212 Quantitative Analysis#	4	CHEM 4231 Instrumental Analysis***	4
CHEM 3421 Intermediate Biochemistry	3	CHEM 4910 Research in Chemistry	1
CHEM 4910 Research in Chemistry	1	General Education	9
General Education	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>
CHEM 4531 Physical Chemistry I***	4	CHEM 4221 Environmental Chemistry***	3
CHEM 4910 Research in Chemistry	1	CHEM 4532 Physical Chemistry II***	4
ET 3017 Programmable Logic Controllers	4	CHEM 4910 Research in Chemistry	1
Free Choice Electives	6	Free Choice Electives	5-6
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>13-14</b>

## 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 *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.



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

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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>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>
BIOL 1110 Principles of Biology	3	CHEM 3342 Organic Chemistry II	4
CHEM 3341 Organic Chemistry I#	4	EASC 3010 Environmental Geology	3
PHYS 1101 College Physics I (GE)	4	PHYS 1102 College Physics II#	4
General Education - Literature	3	General Education	6
<b>Semester Total</b>	<b>14</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>
CHEM 3111 Intermediate Inorganic Chemistry***	4	CHEM 3920 Communication Skills in Chemistry*** <sup>10</sup>	2
CHEM 3212 Quantitative Analysis#	4	CHEM 4231 Instrumental Analysis***	4
CHEM 3421 Intermediate Biochemistry	3	CHEM 4910 Research in Chemistry	1
CHEM 4910 Research in Chemistry	1	General Education	9
General Education	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>
CHEM 4531 Physical Chemistry I***	4	CHEM 4221 Environmental Chemistry***	3
CHEM 4910 Research in Chemistry	1	CHEM 4532 Physical Chemistry II***	4
GEOG 4220 Geographic Information Systems I	3	CHEM 4910 Research in Chemistry	1
Free Choice Electives	6	SAFE 3120 Industrial Hygiene ( <b>3 hidden prereqs</b> )	3
<b>Semester Total</b>	<b>14</b>	Free Choice Electives	1-2
		<b>Semester Total</b>	<b>12-13</b>

## Chemistry Major (Area 3: Environmental Chemistry), B.S. Degree - 120 hours

- \*Enrollment in CHEM 1131 and MATH 1151 is dependent upon one or more of the following: math placement level, high school math courses completed, ACT/SAT standardized test scores, and/or a possible mathematics placement examination.
- #A grade of C or better is required to enroll in future major classes. See Undergraduate Catalog for more information.
- \*\*AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- \*\*\*Upper level chemistry courses offered variably. Check with the department for actual offerings.
- <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 *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.

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

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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 - Spring Semester		Hrs
CHEM 1131 General Chemistry I (GE)*+		5	CHEM 1132 General Chemistry II+		5
ENGL 1020 Composition I (GE)		3	ENGL 1030 Composition II or CTE 3060 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			

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

Junior Year - Fall Semester		Hrs	Junior Year - Spring Semester		Hrs
CHEM 3111 Intermediate Inorganic Chemistry***		4	CHEM 3920 Communication Skills in Chemistry*** <sup>10</sup>		2
CHEM 3212 Quantitative Analysis+		4	CHEM 4231 Instrumental Analysis***		4
CHEM 3421 Intermediate Biochemistry		3	CHEM 4910 Research in Chemistry		1
CHEM 4910 Research in Chemistry		1	General Education		9
General Education		3	<b>Semester Total</b>		<b>16</b>
<b>Semester Total</b>		<b>15</b>			

Senior Year - Fall Semester		Hrs	Senior Year - Spring Semester		Hrs
CHEM 4531 Physical Chemistry I***		4	CHEM 4532 Physical Chemistry II***		4
CHEM 4910 Research in Chemistry		1	CHEM 4910 Research in Chemistry		1
CIS 3630 Management Information Systems#		3	Free Choice Electives		7-8
MGT 3315 Management of Organizations#		3	<b>Semester Total</b>		<b>12-13</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 *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.

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

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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 1110 Principles of Biology	3	BIOL 1005 Introduction to Environmental Sciences (GE)	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
POLS 1510 American Government (GE)	3	HIST 1350 or 1351 History of the United States (GE)	3
General Education - Managing Information	2	General Education	3
<b>Semester Total</b>	<b>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>
CHEM 3341 Organic Chemistry I+	4	CHEM 3212 Quantitative Analysis	4
EDFL 2100 Introduction to the Teaching Profession	3	EASC 1004 Introduction to Geology	4
FLDX 2150 Introductory Field Experience	1	EDSP 2100 Education of the Exceptional Child	3
EDFL 2240 Educational Psychology	3	PHYS 1101 or PHYS 2121 (or PHYS 2123 & 1123)	4-5
MATH 1151 Calculus & Analytic Geometry I (GE)*	5	<b>Semester Total</b>	<b>15-16</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>
CHEM 3111 Intermediate Inorganic Chemistry**	4	CHEM 4531 or 4532 Physical Chemistry**#	4
EDFL 4210 Introduction to Content Area Literacy	2	EDFL 4212 Literacy in the Disciplines I	2
PSY 4230 Psychology of Adolescence (GE)	3	EDFL 4973 Classroom Management in Content Areas	1
STCH 3020 Science and Engineering Practices	3	EDFL 4974 Content Specific Assessment	1
General Education - Literature	3	FLDX 3000 Field Experience in the Content Area***	1
<b>Semester Total</b>	<b>15</b>	STCH 4050 Science Teaching Methods***	3
<b>Senior Year - Fall Semester</b>	<b>Hrs</b>	General Education	3
CHEM 3421 Intermediate Biochemistry	3	<b>Semester Total</b>	<b>15</b>
EDFL 2250 Introduction to English Language Learners and Culturally Responsive Pedagogy	2	<b>Senior Year - Spring Semester++</b>	<b>Hrs</b>
EDFL 4970 Secondary Teaching & Behavioral Management	2	FLDX 4468 Student Teaching Secondary II <sup>10</sup>	4
EDFL 4972 Literacy in the Disciplines II	2	FLDX 4595 Student Teaching Secondary I	5
FLDX 4970 Field Experience II in the Content Area	1	STCH 4080 Secondary Science Teaching	3
General Education	6	<b>Semester Total</b>	<b>12</b>
<b>Semester Total</b>	<b>16</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>	

**Chemistry Major (Area 1: Standard Chemistry Certificate), B.S. in Ed. Degree - 122 hours**

- \*Enrollment in CHEM 1131 and MATH 1151 is dependent upon one or more of the following: math placement level, high school math courses completed, ACT/SAT standardized test scores, and/or a possible mathematics placement examination.
- \*\*Upper level chemistry courses offered variably. Check with the department for actual offerings.
- #CHEM 4531 and 4532 have prerequisites that are not included in this major curriculum (MATH 1152 and (PHYS 1102 or 2122)). See the School of Environmental, Physical, and Applied Sciences for assistance with enrollment.
- \*\*\*These courses must be taken concurrently.
- +A grade of C or better is required to enroll in future major classes. See the Undergraduate Catalog for more information.
- ++The courses listed for this semester constitute the professional education (student teaching) block. The student should not take any other courses during this semester.
- <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.

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

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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 1111 Plant Biology	4	BIOL 1005 Introduction to Environmental Sciences (GE)	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
POLS 1510 American Government (GE)	3	HIST 1350 or 1351 History of the United States (GE)	3
General Education - Managing Information	2	General Education	3
<b>Semester Total</b>	<b>17</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>
CHEM 3341 Organic Chemistry I+	4	CHEM 3212 Quantitative Analysis	4
EDFL 2100 Introduction to the Teaching Profession	3	EASC 1004 Introduction to Geology	4
FLDX 2150 Introductory Field Experience	1	EDSP 2100 Education of the Exceptional Child	3
EDFL 2240 Educational Psychology	3	PHYS 1101 or PHYS 2121	4-5
MATH 1151 Calculus & Analytic Geometry I (GE)*	5	<b>Semester Total</b>	<b>15-16</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>
BIOL 1112 Animal Biology	4	CHEM 4531 or 4532 Physical Chemistry**#	4
CHEM 3111 Intermediate Inorganic Chemistry**	4	EASC 1114 or GEOG 1114 Weather & Climate	4
EDFL 4210 Introduction to Content Area Literacy	2	EDFL 4212 Literacy in the Disciplines I	2
PHYS 1102 or PHYS 2122+	4-5	EDFL 4973 Classroom Management in Content Areas	1
STCH 3020 Science and Engineering Practices	3	EDFL 4974 Content Specific Assessment	1
<b>Semester Total</b>	<b>17-18</b>	FLDX 3000 Field Experience in the Content Area***	1
		STCH 4050 Science Teaching Methods***	3
		<b>Semester Total</b>	<b>16</b>
<b>Junior Year - Summer Semester</b>	<b>Hrs</b>		
PSY 4230 Psychology of Adolescence (GE)	3		
General Education - Literature	3		
General Education	3		
<b>Semester Total</b>	<b>9</b>		
<b>Senior Year - Fall Semester</b>	<b>Hrs</b>	<b>Senior Year - Spring Semester++</b>	<b>Hrs</b>
CHEM 3421 Intermediate Biochemistry	3	FLDX 4468 Student Teaching Secondary II <sup>10</sup>	4
EDFL 2250 Introduction to English Language Learners and Culturally Responsive Pedagogy	2	FLDX 4595 Student Teaching Secondary I	5
EDFL 4970 Secondary Teaching & Behavioral Management	2	STCH 4080 Secondary Science Teaching	3
EDFL 4972 Literacy in the Disciplines II	2	<b>Semester Total</b>	<b>12</b>
FLDX 4970 Field Experience II in the Content Area	1		
General Education	6		
<b>Semester Total</b>	<b>16</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>			

## Chemistry Major (Area 2: Chemistry-Unified Science Certificate), B.S. in Ed. Degree - 135-137 hours

- \*Enrollment in CHEM 1131 and MATH 1151 is dependent upon one or more of the following: math placement level, high school math courses completed, ACT/SAT standardized test scores, and/or a possible mathematics placement examination.
- \*\*Upper level chemistry courses offered variably. Check with the department for actual offerings.
- #CHEM 4531 and 4532 have a prerequisite that is not included in this major curriculum (MATH 1152). See the School of Environmental, Physical, and Applied Sciences for assistance with enrollment.
- \*\*\*These courses must be taken concurrently.
- +A grade of C or better is required to enroll in future major classes. See the Undergraduate Catalog for more information.
- ++The courses listed for this semester constitute the professional education (student teaching) block. The student should not take any other courses during this semester.
- <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.

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

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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	CFD 1220 Child Development	3
CFD 1450 Valuing Differences	1	ECEL 2110 Diversity and Social Justice (GE)	3
ENGL 1020 Composition I (GE)	3	ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE)	3
PSY 1100 General Psychology or SOC 1800 Gen. Sociology (GE)	3	General Education	6
General Education - Mathematics	3	<b>Semester Total</b>	<b>15</b>
General Education	3		
<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>
CFD 1230 Observation of Children	2	BTE 3110 Consumer Finance & Economics or FCSE 3120 Family Resource Management	3
HIST 1350 or 1351 History of the United States (GE)	3	SOC 2805 Introduction to Social Research	3
General Education - Literature	3	General Education	3
General Education	6	Free Choice Electives**	6
<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 - Second Semester</b>	<b>Hrs</b>
CFD 3230 Family Systems & Life Span Development	3	CFD 3240 Parent-Child Interaction	3
CFD 3710 Field Experience in Child & Family Development	3	CFD 3250 Org. & Admin. of Programs for Young Children	3
Free Choice Electives**	9	CFD 4220 Sexuality Across the Lifespan	3
<b>Semester Total</b>	<b>15</b>	Free Choice Electives**	6
		<b>Semester Total</b>	<b>15</b>
<b>Summer Semester</b>	<b>Hrs</b>		
CFD 4710 Internship***	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>
CFD 3260 Youth Culture and Development	3	CFD 4745 Senior Seminar <sup>10</sup>	3
CFD 4260 Adulthood	3	CFD Major Elective (see Catalog for course choices)	3
CFD 4850 Family Policy and Advocacy	3	Free Choice Electives**	6
CFD Major Elective (see Catalog for course choices)	3	<b>Semester Total</b>	<b>12</b>
Free Choice Electives**	3		
<b>Semester Total</b>	<b>15</b>		

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

- \*AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- \*\*For free choice elective hours please work with CFD faculty advisor to find the most appropriate options.
- \*\*\*Internship is to be completed during the summer semester before the senior year. Students must complete the Internship Application form by February 1st. Contact your faculty advisor for more information.
- <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 grade of C or higher is required in all CFD prefix courses.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, [testingservices@ucmo.edu](mailto:testingservices@ucmo.edu)) for more information.

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

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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>
COMM 1100 Introduction to Communication		1	COMM 1000 Public Speaking (GE)		3
COMM 2330 Communication in Small Groups/Teams		3	COMM 2100 Introduction to Communication Theory		3
ENGL 1020 Composition I (GE)		3	COMM 2320 Foundations of Rhetorical Theory (spring only)#		3
General Education - Mathematics		3	or General Education		3
General Education		6	ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE)		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>
COMM 1520 Introduction to Digital Journalism or			COMM 3010 Interpersonal Communication		3
COMM 1500 Writing Across the Media or			COMM 3100 Communication Research Methods		3
PR 3610 Writing & Editing for PR		3	Major Area Electives**		3
COMM 2000 Media Literacy (GE)		3	General Education		6
COMM 2380 Intro. to Organizational Comm. (fall only)#		3	<b>Semester Total</b>		<b>15</b>
or General Education		3			
General Education - Literature		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>
COMM 3000 Film Appreciation (GE)		3	COMM 4320 Social Influence*		3
COMM 3315 Improving Listening Abilities*		3	Major Area Elective**		3
Major Area Electives**		3	Free Choice Electives		9
Free Choice Electives		6	<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>
Major Area Elective**		3	COMM 4790 Senior Capstone <sup>10</sup>		1
Free Choice Electives***		12	Major Area Elective**		3
<b>Semester Total</b>		<b>15</b>	Free Choice Electives***		10
			<b>Semester Total</b>		<b>14</b>

**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 *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.

**Computer Information Systems Major (Area 1: Software Development), B.S.B.A. Degree (46-266)**

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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	CIS 1612 Ethics in Information Technology (GE)	3
ENGL 1020 Composition I (GE)	3	COMM 1000 Public Speaking or COMM 1050 Fundamentals of Oral Communication Competency (GE)	3
MATH 1111 College Algebra (GE)*	3	ECON 1010 Principles of Macroeconomics (GE)*	3
General Education	6	ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE)	3
<b>Semester Total</b>	<b>15</b>	General Education	3
AE 1400 or BADM 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>
ACCT 2101 Principles of Financial Accounting*	3	ACCT 2102 Principles of Managerial Accounting*	3
CIS 2605 Programming with Visual C#	3	BLAW 2720 Legal Environment of Business*	3
ECON 1011 Principles of Microeconomics*	3	CIS 2665 Principles of Data Communications & LAN	3
General Education - Literature	3	FIN 2801 Business Statistics I*	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>Note: Complete all B.S.B.A. Admission requirements.*</b>	
<b>Junior Year - Fall Semester</b>	<b>Hrs</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs</b>
CIS 2615 Introduction to JAVA <b>(IBE Block-below)***</b>	3	CIS 3650 Database Management Systems	3
CIS 3630 Management Information Systems***	3	CIS 3660 Analysis & Design of Computer Information Systems	3
MGT 3315 Management of Organizations***	3	FIN 3801 Business Statistics II	3
MKT 3405 Marketing Policy***	3	FIN 3850 Principles of Finance	3
IBE Practicum (CIS 3685/MKT 3485/MGT 3385)***	3	MGT 3325 Business Communications	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 3670 User Experience Design	3	CIS 4690 Systems Architecture & Development	3
CIS 4660 Applications Development Using JAVA or CIS 4670 Applications Development Using Visual C#	3	MGT 3360 Supply Chain and Operations Management	3
CIS 4680 Data Resource Management	3	CIS Major Electives	5
MGT 4357 Organization Policy & Strategy <sup>10</sup>	3	General Education	3
CIS Major Elective	3	<b>Semester Total</b>	<b>14</b>
<b>Semester Total</b>	<b>15</b>		

**Computer Information Systems Major (Area 1: Software Development), B.S.B.A. Degree - 120 Hours**

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

**Computer Information Systems Major (Area 2: Networking), B.S.B.A. Degree (46-266)**

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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	COMM 1000 Public Speaking or COMM 1050 Fundamentals of Oral Communication Competency (GE)	3
CIS 1612 Ethics in Information Technology (GE)	3	ECON 1011 Principles of Microeconomics*	3
ECON 1010 Principles of Macroeconomics (GE)*	3	ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE)	3
ENGL 1020 Composition I (GE)	3	General Education	6
MATH 1111 College Algebra (GE)*	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
CIS 2605 Programming with Visual C#	3	BLAW 2720 Legal Environment of Business*	3
General Education - Literature	3	CIS 2615 Introduction to JAVA	3
General Education	7	CIS 2665 Prin. of Data Comm. & Local Area Network	3
<b>Semester Total</b>	<b>16</b>	FIN 2801 Business Statistics I*	3
		<b>Semester Total</b>	<b>15</b>
		<b>Note: Complete all B.S.B.A. Admission requirements.*</b>	
<b>Junior Year - Fall Semester</b>	<b>Hrs</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs</b>
CIS 3665 Data Communication Technologies (fall only) <b>(IBE Block-below)**</b>	3	CIS 3650 Database Management Systems	3
CIS 3630 Management Information Systems***	3	CIS 3660 Analysis & Design of Computer Information Systems	3
MGT 3315 Management of Organizations***	3	FIN 3801 Business Statistics II	3
MKT 3405 Marketing Policy***	3	MGT 3325 Business Communications	3
IBE Practicum (CIS 3685/MKT 3485/MGT 3385)***	3	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>
CIS 4665 Data Communication & Distributed Data Processing (fall and summer semesters only)	3	CIS 4685 Network Planning, Design and Security (spring only)	3
FIN 3850 Principles of Finance	3	CIS 4690 Systems Architecture & Development	3
MGT 3360 Supply Chain and Operations Management	3	CIS Electives	5
MGT 4357 Organization Policy & Strategy <sup>10</sup>	3	General Education	3
CIS Elective	3	<b>Semester Total</b>	<b>14</b>
<b>Semester Total</b>	<b>15</b>		

**Computer Information Systems Major (Area 2: Networking), B.S.B.A. Degree - 120 Hours**

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



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

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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.

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

**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 2016 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.
- <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 *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.

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

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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).

**High School Junior Year/MCC** - Summer Semester  
 COLL 100 First-Year Seminar  
 CSIS 110 Tech. and Info. Management (BTE 1210) (GE)  
**Semester Total**

**Hrs**  
 1  
 3  
**4**

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

**Hrs**  
 3  
 3  
 3  
 3  
**12**

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

**Hrs**  
 3  
 3  
 3  
**9**

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

**Hrs**  
 3  
 3  
**6**

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

**Hrs**  
 3  
 3  
 3  
 5  
**14**

**High School Senior Year/MCC** - Spring Semester  
 CSIS 152 Linux Operating Systems (CS 3500)  
 CSIS 228 Advanced Web Development (CS 3120)+  
 CSIS 279 Web Database Programming  
 CSIS 290 Field Competencies and Employment Strategies  
 ENGL 215 Technical Writing (CTE 3060) (GE)  
**Semester Total**  
*(graduate from high school and MCC this semester)*

**Hrs**  
 3  
 3  
 3  
 3  
 3  
**15**

**MCC/UCM Junior Year** - Summer Semester  
 BSAD 127/221 Management Internship I  
 COMM 100 Fundamentals of Speech (COMM 1000) (GE)  
 CS 1000 Computers and Modern Society (GE)  
**Semester Total**  
*(finish MCC requirements this semester)*

**Hrs**  
 3  
 3  
 3  
**9**

**UCM Junior Year** - Fall Semester  
 CS 1030 Intro. to Computer Programming or  
 MATH 1131 Applied Calculus (GE) or  
 MATH 1151 Calculus & Analytic Geometry I (GE)  
 CS 2300 Data Structure  
 CS 2400 Discrete Structures  
 CS 4130 Server Side Web Programming+  
 General Education - Literature  
**Semester Total**

**Hrs**  
 3-5  
 3  
 3  
 3  
 3  
**15-17**

**UCM Junior Year** - Spring Semester  
 ACST 1300 Basic Statistics (GE)  
 CS 2200 Introduction to Computer Organization  
 CS 3100 Programming Languages\*  
 CS 4500 Operating Systems\*  
 General Education  
**Semester Total**

**Hrs**  
 3  
 3  
 3  
 3  
 3  
**15**

**UCM Senior Year** - Summer Semester  
 CS 4020 Internship in CS+  
 General Education  
**Semester Total**

**Hrs**  
 3  
 6  
**9**

**UCM Senior Year** - Fall Semester  
 CS 3200 Computer Architecture\*  
 CS 4120 Advanced Applications Programming in Java\*\*  
 CS 4820 Introduction to Information Assurance+  
 CS 4910 Software Engineering  
 General Education  
**Semester Total**

**Hrs**  
 3  
 3  
 3  
 3  
 3  
**15**

**UCM Senior Year** - Spring Semester  
 CS 4110 Mobile Applications Programming with Android\*\*  
 CS 4300 Algorithm Design & Analysis\*  
 CS 4800 Computer Networking+  
 CS 4920 Senior Project\*<sup>10</sup>  
 CS 4930 Software Testing\*\*  
**Semester Total**

**Hrs**  
 3  
 3  
 3  
 3  
 3  
**15**

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

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**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 2016 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 *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.

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

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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 1152 Calculus & Analytic Geometry II	5
MATH 1151 Calculus & Analytic Geometry I (GE)	5	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>
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 2 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 3100 Programming Languages**	3	CS 4910 Software Engineering	3
CS 3200 Computer Architecture**	3	Option 2 Major Electives***	7
CS 4600 Database Theory & Applications	3	General Education	6
Option 2 Major Electives***	4	<b>Semester Total</b>	<b>16</b>
General Education - Literature	3		
<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 4300 Algorithm Design & Analysis**	3	CS 4920 Senior Project** <sup>10</sup>	3
CS 4500 Operating Systems**	3	Option 2 Major Elective***	3
Option 2 Major Elective***	6	Free Choice Electives+++	9
General Education	3	<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 2016 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 *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.

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

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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 3 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 3100 Programming Languages***	3	CS 4910 Software Engineering	3
CS 3200 Computer Architecture***	3	Option 3 Major Electives**	6
CS 4600 Database Theory & Applications	3	General Education - Literature	3
Option 3 Major Electives**	6	Free Choice 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 4300 Algorithm Design & Analysis***	3	CS 4920 Senior Project*** <sup>10</sup>	3
CS 4500 Operating Systems***	3	Option 3 Major Electives**	6
Option 3 Major Electives**	6	Free Choice Electives++	4-6
Free Choice Elective++	3	<b>Semester Total</b>	<b>13-15</b>
<b>Semester Total</b>	<b>15</b>		

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

- \*AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- \*\*Option 3 requires a total of 27 hours of major electives: 12-18 hours from set one and 9-15 hours from set two. See the 2016 Undergraduate Catalog for the list of appropriate course choices in each set.
- \*\*\*This class is only offered during the semester indicated.
- ++The number of free choice electives will depend on the selection made among CS 1030/MATH 1131/MATH 1151.
- <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 *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.

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

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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.

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

**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 2016 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 *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.

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

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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 1101 College Physics I (GE)	4
<b>Semester Total</b>	<b>15.5</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>
ACST 1300 Basic Statistics (GE)	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
General Education	3	<b>Semester Total</b>	<b>16</b>
<b>Semester Total</b>	<b>15.5</b>		
<b>Junior Year - Fall Semester</b>	<b>Hrs</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs</b>
ACCT 2101 Principles of Financial Accounting	3	ACCT 2102 Principles of Managerial Accounting or	
CMGT 1301 Seminar in Construction Management	.5	MKT 3405 Marketing Policy*	3
CMGT 3330 Building Codes & Code Administration	3	CADD 3150 Civil Drafting** or	
CMGT 3355 Construction Planning & Scheduling	3	CADD 4162 Commercial Arch. Design/Drafting (BIM)**	3
MGT 3315 Management of Organizations* or		CMGT 3320 Principles of Construction Management	3
INDM 4210 Industrial Management	3	ENGT 2040 Engineering Material Science	4
General Education - Literature	3	General Education	3
<b>Semester Total</b>	<b>15.5</b>	<b>Semester Total</b>	<b>16</b>
<b>Summer - Between Junior &amp; Senior Year</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>
CMGT 1301 Seminar in Construction Management	.5	CMGT 4310 Construction Safety	3
CMGT 3350 Building Structures: Methods & Materials	3	CMGT 4325 Advanced Estimating & Cost Analysis	3
CMGT 4355 Computer-Based Project Control	3	CMGT 4330 Mechanical Systems for Buildings or	
HRM 3920 Human Resources Management or		CMGT 4380 Heavy Construction: Methods and Materials	3
INDM 4260 Organizational Dynamics	3	CMGT 4400 Construction Operations <sup>10</sup>	3
General Education	6	<b>Semester Total</b>	<b>12</b>
<b>Semester Total</b>	<b>15.5</b>		

## Construction Management Major, B.S. Degree - Minimum hours 123

- +Instructor permission to enroll will be required for this course to override the prerequisite of EASC 1004.
- \*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. Instructor permission to enroll will be required for this course to override the prerequisite of CADD 2160 with a C or better.
- \*\*\*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 *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.

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

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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>
CJ 1000 Introduction to Criminal Justice (GE)*#	3	CJ 3010 Policing a Democratic Society#	3
CJ 1605 Orientation to the Criminal Justice Major#	1	ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE)	3
ENGL 1020 Composition I (GE)	3	General Education	9
General Education - Mathematics**	3	<b>Semester Total</b>	<b>15</b>
General Education	6		
<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>
CJ 2300 Criminal Law and Procedure#	3	CJ 2010 Ethics in Criminal Justice#	3
CJ 2700 Introduction to Juvenile Justice#	3	CJ 3006 Corrections#	3
General Education - Literature	3	CJ Major Elective	3
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>
CJ 3605 Junior Seminar in Criminal Justice#	1	CJ 3600 Introduction to CJ Research & Statistics#	3
CJ 4503 Dynamics of Criminal Behavior#	3	CJ Major Elective	3
CJ Major Elective	3	Free Choice Electives	9
Free Choice Electives	9	<b>Semester Total</b>	<b>15</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>
CJ 4020 Crime, Justice and Social Diversity#	3	CJ 4605 Senior Seminar in Criminal Justice <sup>10</sup> #	1
CJ Major Elective	3	CJ Major Elective	3
Free Choice Electives	9	Free Choice Electives	9
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>13</b>

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

- \*A grade of C or better must be earned in CJ 1000 as a prerequisite for additional major courses. See 2016 Undergraduate Catalog for more information.
- \*\*ACST 1300 Basic Statistics is highly recommended as the general education mathematics class.
- \*\*\*AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- #A grade of C or higher (including transfer classes) is required in all CJ major required core classes, but not the 15 hours of CJ major elective 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.
- This major does not require a minor, but one is strongly recommended. Most minors are between 18-24 credit hours. This major contains 36 hours of free choice electives, this gives a lot of flexibility for the addition of a minor, double minor, double major, or double degree. The number of free choice electives required will vary depending on the minor chosen.
- This major does not build in the minimum number (30) of upper-level credit hours required for graduation. Be sure to include upper-level choices (3000/4000) in your major electives, general education, and/or free choice electives.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, [testingservices@ucmo.edu](mailto:testingservices@ucmo.edu)) for more information.



## Criminal Justice Major, Accelerated B.S. and M.S. Degrees (43-614)

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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>
CJ 1000 Introduction to Criminal Justice (GE)*#	3	CJ 3010 Policing a Democratic Society#	3
CJ 1605 Orientation to the Criminal Justice Major#	1	ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE)	3
ENGL 1020 Composition I (GE)	3	General Education	9
General Education - Mathematics**	3	<b>Semester Total</b>	<b>15</b>
General Education	6		
<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>
CJ 2300 Criminal Law and Procedure#	3	CJ 2010 Ethics in Criminal Justice#	3
CJ 2700 Introduction to Juvenile Justice#	3	CJ 3006 Corrections#	3
General Education - Literature	3	General Education	6
General Education	6	Undergraduate Free Choice Electives (AE 1250 recommended)3	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>
CJ 3605 Junior Seminar in Criminal Justice#	1	CJ 3600 Introduction to CJ Research & Statistics#	3
CJ 4605 Dynamics of Criminal Behavior#	3	CJ Undergraduate Major Electives	6
CJ Undergraduate Major Elective	3	Undergraduate Free Choice Electives	8
Undergraduate Free Choice Electives	9	<b>Semester Total</b>	<b>17</b>
<b>Semester Total</b>	<b>16</b>		
<b>Senior Year - Fall Semester (final semester of undergraduate)</b>	<b>Hrs</b>	<b>Senior Year - Spring Semester (graduate semester)</b>	<b>Hrs</b>
CJ 4020 Crime, Justice and Social Diversity#	3	CJ 5006 Comparative & International Criminal Justice Systems3	3
CJ 4605 Senior Seminar in Criminal Justice <sup>10</sup> #	1	CJ 5600 Methods of Criminal Justice Research	3
CJ 5000 Criminal Justice Philosophy and Policy	3	Department Approved Graduate Electives	3
Undergraduate Free Choice Electives	9	<b>Semester Total</b>	<b>9</b>
<b>Semester Total</b>	<b>16</b>		
<b>Fifth Year - Fall Semester (graduate semester)</b>	<b>Hrs</b>	<b>Fifth Year - Spring Semester (graduate semester)</b>	<b>Hrs</b>
CJ 5003 Causes of Crime	3	CJ 5301 Legal Aspects of the Criminal Justice System	3
CJ 5102 Administration in Criminal Justice	3	CJ 5600 Individual Research (or CJ 6600 Thesis)+	3
CJ 5610 Statistics for Criminal Justice	3	Department Approved Graduate Electives+	3-6
CJ 6600 Thesis+	0-3	<b>Semester Total</b>	<b>9-12</b>
<b>Semester Total</b>	<b>9-12</b>		

### Criminal Justice Major, Accelerated B.S. and M.S. Degrees - 140 hours

- \*A grade of C or better must be earned in CJ 1000 as a prerequisite for additional major courses. See 2016 Undergraduate Catalog for more information.
- \*\*ACST 1300 Basic Statistics is highly recommended as the general education mathematics class.
- \*\*\*AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- #A grade of C or higher (including transfer classes) is required in all undergraduate CJ major required core classes, but not the 9 hours of undergraduate CJ major elective courses.
- ##Students should prepare for the GRE during the sophomore year and take the GRE by the beginning of the junior year. Students should apply to the accelerated program by the first semester of the junior year. AE 1250 GRE Test Preparation (1 credit hour) is offered every 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.
- +Students pursuing the thesis option should take CJ 6600 Thesis during the last two semesters. These hours are taken instead of CJ 5600 and 3 of the departmentally approved graduate electives.
- This major does not require a minor, but one is strongly recommended. Most minors are between 18-24 credit hours. This major contains 29 hours of free choice electives, this gives a lot of flexibility for the addition of a minor, double minor, double major, or double degree. The number of free choice electives required will vary depending on the minor chosen.
- This major does not build in the minimum number (30) of upper-level credit hours required for graduation. Be sure to include upper-level choices (3000/4000) in your major electives, general education, and/or free choice electives.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, [testingservices@ucmo.edu](mailto:testingservices@ucmo.edu)) for more information.

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

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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
General Education - Mathematics	3	General Education	12
General Education	9	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>15</b>		
AE 1400 University Foundations*	1		
CDM 2000 Special Activities in Crisis and Disaster Mgmt. **	3		

<b>Sophomore Year - Fall Semester</b>	<b>Hrs</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs</b>
CDM 3000 Introduction to Crisis & Disaster Management	3	CDM 3400 Community Mitigation & Recovery	3
CHEM 1103 or 1104 Intro. to the Sciences: Chemistry (GE)	3-4	Free Choice Electives	9
General Education - Literature	3	<b>Semester Total</b>	<b>12</b>
General Education	5-6		
<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>
Major Area Course#	3	CDM 4200 Disaster Management Technology	3
Free Choice Electives	12	Major Area Course#	3
<b>Semester Total</b>	<b>15</b>	Free Choice Electives	9
		<b>Semester Total</b>	<b>15</b>

<b>Summer - Between Junior &amp; Senior Year</b>	<b>Hrs</b>
CDM 4900 Technology Application Studies##	3
CDM 4990 Practicum in CDM	3
Major Area Course**	3
<b>Semester Total</b>	<b>9</b>

<b>Senior Year - Fall Semester</b>	<b>Hrs</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs</b>
CDM 4400 Research Issues in CDM	3	CDM 4800 Integrated Emergency Management <sup>10</sup>	3
CDM 4910 Field Exercise Project##	3	Free Choice Electives	9
Departmentally Approved Technical Elective	3	<b>Semester Total</b>	<b>12</b>
Free Choice Electives	3		
<b>Semester Total</b>	<b>12</b>		

**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.
- \*\*CDM 2000 is a free choice elective and is highly recommended for academic success. If CDM 2000 is chosen, 3 less hours 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 2016 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 *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.

**Crisis and Disaster Management Major (Area 1: Business Continuity), B.S. Degree (43-251)**

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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
General Education - Mathematics	3	General Education	12
General Education	9	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>15</b>		
AE 1400 University Foundations*	1		
CDM 2000 Special Activities in Crisis and Disaster Mgmt. **	3		

<b>Sophomore Year - Fall Semester</b>	<b>Hrs</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs</b>
CDM 3000 Introduction to Crisis & Disaster Management	3	CDM 3400 Community Mitigation & Recovery	3
CHEM 1103 or 1104 Intro. to the Sciences: Chemistry (GE)	3-4	Free Choice Electives	9
General Education - Literature	3	<b>Semester Total</b>	<b>12</b>
General Education	5-6		
<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>
CDM 4715 Business Continuity Planning (fall only)	3	CDM 4200 Disaster Management Technology	3
Free Choice Electives	12	CDM 4745 Crisis Management (spring only)	3
<b>Semester Total</b>	<b>15</b>	Free Choice Electives	9
		<b>Semester Total</b>	<b>15</b>

<b>Summer - Between Junior &amp; Senior Year</b>	<b>Hrs</b>
CDM 4735 Critical Infrastructure (summer only)	3
CDM 4900 Technology Application Studies***	3
CDM 4990 Practicum in CDM	3
<b>Semester Total</b>	<b>9</b>

<b>Senior Year - Fall Semester</b>	<b>Hrs</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs</b>
CDM 4400 Research Issues in CDM	3	CDM 4800 Integrated Emergency Management <sup>10</sup>	3
CDM 4910 Field Exercise Project***	3	Free Choice Electives	9
Departmentally Approved Technical Elective	3	<b>Semester Total</b>	<b>12</b>
Free Choice Electives	3		
<b>Semester Total</b>	<b>12</b>		

**Crisis and Disaster Management Major (Area 1: Business Continuity), 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.
- \*\*CDM 2000 is a free choice elective and is highly recommended for academic success. If CDM 2000 is chosen, 3 less hours of free choice electives will be needed.
- \*\*\*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 *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.

**Crisis and Disaster Management Major (Area 2: Emergency Management), B.S. Degree (43-248)**

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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
General Education - Mathematics	3	General Education	12
General Education	9	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>15</b>		
AE 1400 University Foundations*	1		
CDM 2000 Special Activities in Crisis and Disaster Mgmt. **	3		
<b>Sophomore Year - Fall Semester</b>	<b>Hrs</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs</b>
CDM 3000 Introduction to Crisis & Disaster Management	3	CDM 3400 Community Mitigation & Recovery	3
CHEM 1103 or 1104 Intro. to the Sciences: Chemistry (GE)	3-4	CDM 3035 Emergency Response Planning	3
General Education - Literature	3	Free Choice Electives	9
General Education	5-6	<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>
CDM 4035 Disaster & Society	3	CDM 4015 Catastrophic Readiness	3
Free Choice Electives	12	CDM 4200 Disaster Management Technology	3
<b>Semester Total</b>	<b>15</b>	Free Choice Electives	9
		<b>Semester Total</b>	<b>15</b>
<b>Summer - Between Junior &amp; Senior Year</b>	<b>Hrs</b>		
CDM 4900 Technology Application Studies***	3		
CDM 4990 Practicum in CDM	3		
<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>
CDM 4400 Research Issues in CDM	3	CDM 4800 Integrated Emergency Management <sup>10</sup>	3
CDM 4910 Field Exercise Project***	3	Free Choice Electives	9
Departmentally Approved Technical Elective	3	<b>Semester Total</b>	<b>12</b>
Free Choice Electives	3		
<b>Semester Total</b>	<b>12</b>		

**Crisis and Disaster Management Major (Area 2: Emergency Management), B.S. Degree – 120 hours**

- \*AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- \*\*CDM 2000 is a free choice elective and is highly recommended for academic success. If CDM 2000 is chosen, 3 less hours of free choice electives will be needed.
- \*\*\*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 *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.

**Crisis and Disaster Management Major (Area 3: Emergency Services Mgmt.), B.S. Degree (43-886)**

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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
General Education - Mathematics	3	General Education	12
General Education	9	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>15</b>		
AE 1400 University Foundations*	1		
CDM 2000 Special Activities in Crisis and Disaster Mgmt. **	3		

<b>Sophomore Year - Fall Semester</b>	<b>Hrs</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs</b>
CDM 3000 Introduction to Crisis & Disaster Management	3	CDM 3400 Community Mitigation & Recovery	3
CHEM 1103 or 1104 Intro. to the Sciences: Chemistry (GE)	3-4	Free Choice Electives	9
General Education - Literature	3	<b>Semester Total</b>	<b>12</b>
General Education	5-6		
<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>
CDM 4535 Emergency Services Management (fall only)	3	CDM 4200 Disaster Management Technology	3
Free Choice Electives	12	CDM 4515 Safety & Health for Emergency Resp. (spring only)	3
<b>Semester Total</b>	<b>15</b>	Free Choice Electives	9
		<b>Semester Total</b>	<b>15</b>

<b>Summer - Between Junior &amp; Senior Year</b>	<b>Hrs</b>
CDM 4575 Emergency Serv. Personnel Mgmt. (summer only)	3
CDM 4900 Technology Application Studies***	3
CDM 4990 Practicum in CDM	3
<b>Semester Total</b>	<b>9</b>

<b>Senior Year - Fall Semester</b>	<b>Hrs</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs</b>
CDM 4400 Research Issues in CDM	3	CDM 4800 Integrated Emergency Management <sup>10</sup>	3
CDM 4910 Field Exercise Project***	3	Free Choice Electives	9
Departmentally Approved Technical Elective	3	<b>Semester Total</b>	<b>12</b>
Free Choice Electives	3		
<b>Semester Total</b>	<b>12</b>		

**Crisis and Disaster Management Major (Area 3: Emergency Services Management), B.S. Degree – 120 hours**

- \*AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- \*\*CDM 2000 is a free choice elective and is highly recommended for academic success. If CDM 2000 is chosen, 3 less hours of free choice electives will be needed.
- \*\*\*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 *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.

**Crisis and Disaster Management Major (Area 4: Environmental Hazards), B.S. Degree (43-250)**

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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
General Education - Mathematics	3	General Education	12
General Education	9	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>15</b>		
AE 1400 University Foundations*	1		
CDM 2000 Special Activities in Crisis and Disaster Mgmt. **	3		

<b>Sophomore Year - Fall Semester</b>	<b>Hrs</b>	<b>Sophomore Year - Spring Semester</b>	<b>Hrs</b>
CDM 3000 Introduction to Crisis & Disaster Management	3	CDM 3400 Community Mitigation & Recovery	3
CHEM 1103 or 1104 Intro. to the Sciences: Chemistry (GE)	3-4	Free Choice Electives	9
General Education - Literature	3	<b>Semester Total</b>	<b>12</b>
General Education	5-6		
<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>
CDM 3225 Hazardous Materials Emergency Resp. (fall only)	3	CDM 4200 Disaster Management Technology	3
Free Choice Electives	12	CDM 4245 Managerial Issues in Haz. Mat. (spring only)	3
<b>Semester Total</b>	<b>15</b>	Free Choice Electives	9
		<b>Semester Total</b>	<b>15</b>

<b>Summer - Between Junior &amp; Senior Year</b>	<b>Hrs</b>
CDM 4215 Environmental Disasters (summer only)	3
CDM 4900 Technology Application Studies***	3
CDM 4990 Practicum in CDM	3
<b>Semester Total</b>	<b>9</b>

<b>Senior Year - Fall Semester</b>	<b>Hrs</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs</b>
CDM 4400 Research Issues in CDM	3	CDM 4800 Integrated Emergency Management <sup>10</sup>	3
CDM 4910 Field Exercise Project***	3	Free Choice Electives	9
Departmentally Approved Technical Elective	3	<b>Semester Total</b>	<b>12</b>
Free Choice Electives	3		
<b>Semester Total</b>	<b>12</b>		

**Crisis and Disaster Management Major (Area 4: Environmental Hazards), 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.
- \*\*CDM 2000 is a free choice elective and is highly recommended for academic success. If CDM 2000 is chosen, 3 less hours 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 2016 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 *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.

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

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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>
COMM 1000 Public Speaking or COMM 1050 Fundamentals of Oral Communication Competency (GE)	3	ACST 1300 Basic Statistics (GE)	3
CS 1000 Computers and Modern Society (GE)	3	CS 1110 Computer Programming II	3
CS 1100 Computer Programming I	3	CS 2810 Economics of Cybersecurity	3
CS 1800 Introduction to Cybersecurity	3	ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE)	3
ENGL 1020 Composition I (GE)	3	General Education	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>
CS 2300 Data Structures	3	CS 2400 Discrete Structures	3
CS 2800 Usable Privacy and Security	3	CS 3130 Secure Programming**	3
CS 3500 C and UNIX Environment	3	NET 1061 Routers & Switching Essentials	3
CS 1030 Introduction to Computer Programming or MATH 1131 Applied Calculus (GE)	3	General Education - Literature	3
NET 1060 Introduction to Networks	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>
CS 3300 Introduction to Cryptography**	3	NET 3068 Network Security I	4
CS 4140 Web Applications Security	3	Major Elective+	3
CS 4300 Algorithm Design & Analysis**	3	General Education	9
CS 4500 Operating Systems**	3	<b>Semester Total</b>	<b>16</b>
General Education	3		
<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 4600 Database Theory & Applications**	3	CS 4820 Introduction to Information Assurance <sup>10</sup>	3
CS 4800 Computer Networking***	3	CS 4850 Computer and Network Forensics	3
CS 4840 Ethical Hacking	3	Major Elective+	3
General Education	3	Free Choice Electives	5
Free Choice Elective	3	<b>Semester Total</b>	<b>14</b>
<b>Semester Total</b>	<b>15</b>		

**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 6 hours of major electives. Consult the course choice listing in the 2016 Undergraduate Catalog.
- <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 *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.

**Cybersecurity Major, Missouri Innovation Campus (MIC), B.S. Degree (43-892)**

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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>
COLL 100 First Year Seminar (N/A)	1
CSIS 110 Technology & Information Mgmt. (BTE 1210) (GE)	3
<b>Semester Total</b>	<b>4</b>

<b>High School Junior Year/MCC/UCM - Fall Semester</b>	<b>Hrs</b>
CS 1030 Introduction to Computer Programming (GE)*	3
Intro. to Networks (STA Course) (CSIS 112 at MCC)	
(NET 1060)	3
Routing and Switching Essentials (STA Course) (CSIS 113 at MCC) (NET 1061)	3
HIST 120 or 121 Hist. of the U.S. (HIST 1350 or 1351) (GE)	3
<b>Semester Total</b>	<b>12</b>

<b>High School Junior Year/MCC/UCM - Spring Semester</b>	<b>Hrs</b>
CS 1800 Introduction to Cybersecurity*	3
Scaling Networks (STA Course) (CSIS 175 or 212 at MCC)	
(NET 2060)	3
Connecting Networks (STA Course) (CSIS 178 or 213 at MCC) (NET 2061)	3
General Education	3
<b>Semester Total</b>	<b>12</b>

<b>High School Senior Year/MCC - Summer Semester</b>	<b>Hrs</b>
COMM 1000 Public Speaking (GE)	3
<b>Semester Total</b>	<b>3</b>

<b>High School Senior Year/MCC - Fall Semester</b>	<b>Hrs</b>
CSIS 123 Prog. Fundamentals (STA Course) (CS 1100)	3
ENGL 101 Composition and Reading I (ENGL 1020) (GE)	3
PHYS 130 or CHEM 107 (PHYS 1101 or Gen Ed Chemistry with a lab) (GE)	5
General Education	3
<b>Semester Total</b>	<b>14</b>

<b>High School Senior Year/MCC - Spring Semester</b>	<b>Hrs</b>
CSIS 223 Object Oriented Programming (STA Course)	
(CS 1110)	3
ENGL 215 Technical Writing (CTE 3060) or ENGL 102 Composition II (ENGL 1030) (GE)	3
MATH 115 Basic Statistics (ACST 1300) (GE)	3
General Education	3
<b>Semester Total</b>	<b>12</b>

<b>MCC Junior Year - Summer Semester</b>	<b>Hrs</b>
CSIS 222 Object Oriented Programming Java (CS 1110)	3
General Education - Literature	3
<b>Semester Total</b>	<b>6</b>

<b>UCM Junior Year - Fall Semester</b>	<b>Hrs</b>
CS 2300 Data Structures*	3
CS 2400 Discrete Structures*	3
CS 2810 Economics of Cybersecurity	3
CS 3500 C and UNIX Environment*	3
General Education	3
<b>Semester Total</b>	<b>15</b>

<b>UCM Junior Year - Spring Semester</b>	<b>Hrs</b>
CS 2800 Usable Privacy and Security*	3
CS 3300 Introduction to Cryptography*	3
CS 4600 Database Theory & Applications*	3
CS 4800 Computer Networking*	3
NET 3068 Network Security I	4
<b>Semester Total</b>	<b>16</b>

<b>UCM Senior Year - Summer Semester</b>	<b>Hrs</b>
CS 1000 Computers and Modern Society (GE)*	3
CS 4020 Internship in CS (Major elective)+*	3
<b>Semester Total</b>	<b>6</b>

<b>UCM Senior Year - Fall Semester</b>	<b>Hrs</b>
CS 3130 Secure Programming*	3
CS 4820 Introduction to Information Assurance <sup>10</sup>	3
CS 4840 Ethical Hacking	3
General Education	3
<b>Semester Total</b>	<b>12</b>

<b>UCM Senior Year - Spring Semester</b>	<b>Hrs</b>
CS 4110 Mobile Applications Programming with Android	
(Major elective)+*	3
CS 4140 Web Applications Security	3
CS 4300 Algorithm Design & Analysis*	3
CS 4500 Operating Systems*	3
CS 4850 Computer and Network Forensics	3
<b>Semester Total</b>	<b>15</b>

**Cybersecurity Major, B.S. Degree - 127 hours**



**Cybersecurity Major, Missouri Innovation Campus (MIC), B.S. Degree (43-892)**

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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.
- 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 *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.

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

- \*This class is only offered during the semester indicated.
- +This major requires 6 hours of major electives. Consult the course choice listing in the 2016 Undergraduate Catalog.
- <sup>10</sup>This course fulfills Competency 10 - Integration in the General Education program. The hours count in the major, not in general education.

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

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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 2140 CADD for Engineering Technology+	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	ENGT 2530 Machine Tool Technology	3
CADD 1170 Introduction Computer-Aided Drafting+	2	MATH 1112 College Trigonometry	2
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
CADD 3120 Machine Drafting*+	3	CADD 3160 Residential Architectural Drawing	3
CMGT 2020 Statics	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	CADD 4180 Industrial Design <sup>10</sup>	3
GEOG 2212 World Geography (GE)	3	General Education - Literature	3
General Education	6	General Education	3
<b>Semester Total</b>	<b>15.5</b>	<b>Semester Total</b>	<b>15</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
SOT 4570 Computer Graphics	3	Major Area Electives**	9
Major Area Electives**	6	<b>Semester Total</b>	<b>12</b>
General Education	3		
<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 2016 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 *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.

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

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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>	<b>Hrs</b>
ETEC 152 Engineering Graphics and CADD I (CADD 1105, 1110, & 1170)	5
HIST 120 or 121 American History (HIST 1350 or 1351) or POLS 135, 136, or 137 (POLS 1500, 1510, or 2511) (GE)	3
MATH 120 College Algebra (MATH 1111) (course not needed if tested into MATH 130 or 150)	3
<b>Semester Total</b>	<b>8 or 11</b>

<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 - Summer Semester</b>	<b>Hrs</b>
ETEC 170 Microstation (CADD 2171)	3
ETEC 290 Internship (N/A)	3
<b>Semester Total</b>	<b>6</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>
<i>(must have completed MATH 130 or 150 by this semester)</i>	

<b>High School Senior Year/MCC - Spring Semester</b>	<b>Hrs</b>
CSIS 110 Technology and Information Mgmt. (BTE 1210) (GE)	3
ENGL 215 Technical Writing (CTE 3060) (GE)	3
ETEC 200 Applied Statics and Mechanics (CMGT 2020)	3
ETEC 210 Commercial Design (N/A, will substitute for CADD 3160)++	3
SRVY 135 Elementary Surveying (N/A, this course will substitute for CMGT 3330)+++	3
<b>Semester Total</b>	<b>15</b>
<i>(graduate from high school this semester)</i>	

<b>MCC Junior Year - Summer Semester</b>	<b>Hrs</b>
ETEC 211 Building Information Modeling, Revit (N/A, will substitute for CADD 4162)*	3
ETEC 268 Intro. to Structural Steel Design (CADD 2160)	3
<b>Semester Total</b>	<b>6</b>

<b>MCC/UCM Junior Year - Fall Semester</b>	<b>Hrs</b>
EASC 1004 Introduction to Geology (GE)	4
MATH 180 Analytic Geometry and Calculus I (MATH 1151) (GE)	5
General Education - Literature	3
<b>Semester Total</b>	<b>12</b>
<i>(graduate from MCC with A.A.S. degree this semester)</i>	

<b>UCM Junior Year - Spring Semester</b>	<b>Hrs</b>
CADD 3170 Computer Drafting Systems	3
CADD 3175 Advanced MicroStation	3
CMGT 3010 Applied Construction Practices	3
ENGT 2530 Machine Tool Technology	3
General Education	6
<b>Semester Total</b>	<b>18</b>

<b>UCM Senior Year - Summer Semester</b>	<b>Hrs</b>
SOT 3022 Internship in Technology	1
SOT 4570 Computer Graphics	3
<b>Semester Total</b>	<b>4</b>

<b>UCM Senior Year - Fall Semester</b>	<b>Hrs</b>
CADD 2140 CADD for Engineering Technology	3
GEOG 2212 World Geography (GE)	3
General Education	6
<b>Semester Total</b>	<b>12</b>

<b>UCM Senior Year - Spring Semester</b>	<b>Hrs</b>
CADD 3120 Machine Drafting**	3
CADD 4180 Industrial Design <sup>10</sup>	3
INDM 4250 Project Management or MGT 3315 Management of Organizations***	3
SOT 4210 Innovations Management for CADD or HRM 3920 Human Resource Management***	3
Upper-Level Free Choice Electives <sup>^</sup>	0-5
<b>Semester Total</b>	<b>12-17</b>

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

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

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**General Information**

- This program is offered in cooperation with the Lee's Summit R-7 School District and the Metropolitan Community College (MCC). Students begin the program during their junior year in high school and will earn an AAS degree from MCC-BTC with a major in Engineering Technology: Architecture Emphasis.
- Students must be accepted into this program. Go to [www.ucmo.edu/mic](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 *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.

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

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

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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
CTE 3060 Technical Writing (GE)#	1	BIOL 3402 Human Physiology#+	5
FOOD 2320 Sanitation and Safety#	3	D&N 3340 Nutrition#+	3
FOOD 2322 Food Preparation#+	3	General Education - Literature	3
HIST 1350 or HIST 1351 US History	3	Free Choice Elective	3
General Education	3	<b>Semester Total</b>	<b>17</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 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.
- +Formal admission to the Dietetics degree program is conditional upon completion of the four following courses with a cumulative GPA of 3.00 or better in the four courses (additionally, a minimum of a C or better must be achieved in each course): BIOL 3401 and 3402, D&N 3340, and FOOD 2322.
- \*\*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 *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.

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

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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>
COMM 1000 Public Speaking (GE)	3	COMM 2100 Introduction to Communication Theory	3
COMM 1100 Introduction to Communication	1	COMM 1500 Writing Across the Media#	3
COMM 1200 Introduction to Mass Communication (GE)		ENGL 1030 Composition II (GE)#	3
(required GE for students doing Audio and Live Studio and Remote Production major areas) or General Education	3	MUS 1450 Audio and Acoustics (GE) (required GE for students doing Audio major area) or General Education	3
COMM 1275 Introduction to Media Technology	1	General Education	3
ENGL 1020 Composition I (GE)	3	<b>Semester Total</b>	<b>15</b>
General Education - Mathematics	3		
<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>
COMM 1519 Media Aesthetics	3	COMM 2411 Audio Production	3
COMM 2410 Multimedia Production	3	Major Area Course*	3
COMM 3100 Communication Research Methods	3	General Education	9
Major Area Course*	3	<b>Semester Total</b>	<b>15</b>
General Education - Literature	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>
COMM 2412 Introduction to Digital Video	3	COMM 2000 Media Literacy (GE)	3
COMM 3000 Film Appreciation (GE)	3	COMM 4250 The Law & Digital Media	3
Major Area Course*	3	Major Area Course*	3
General Education	3	Free Choice Electives	6
Free Choice Electives	3	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>15</b>		
<b>Summer - Between Junior/Senior Year</b>	<b>Hrs</b>		
COMM 3200 Digital Media Practicum or COMM 4295 Internship**	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>
Major Area Course*	3	COMM 4490 Senior Capstone Seminar*** <sup>10</sup>	1
Free Choice Electives	12	Major Area Course*	6
<b>Semester Total</b>	<b>15</b>	Free Choice Electives	6
		<b>Semester Total</b>	<b>13</b>

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

- #Students should choose ENGL 1030 as the second writing course to meet prerequisite/corerequisite for COMM 1500.
- \*Students will choose a major area (21 credit hours) from: Audio, Live Studio and Remote Production, Digital Cinema, or Digital Journalism. See the 2016 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 2016 Undergraduate Catalog or the Department of Communication for the statement of policy for admission to the major program.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, [testingservices@ucmo.edu](mailto:testingservices@ucmo.edu)) for more information.

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

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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>
EASC 1004 <i>Introduction to Geology (GE)</i>	4	CHEM 1131 General Chemistry I (GE)	5
ENGL 1020 <i>Composition I (GE)</i>	3	EASC 1114 or GEOG 1114 Weather and Climate	4
MATH 1111, 1131, 1150, or 1151	3-5	ENGL 1030 <i>Composition II or CTE 3060 Tech. Writing (GE)</i>	3
General Education	6	HIST 1350 or HIST 1351 History of the United States (GE)	3
<b>Semester Total</b>	<b>16-18</b>	General Education - Managing Information	2
AE 1400 University Foundations*	1	<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>
EASC 3115 Oceanography	3	EASC 2200 Historical Geology**	4
EDFL 2100 Introduction to the Teaching Profession	3	EASC 3112 Astronomy	3
FLDX 2150 Introductory Field Experience	1	EDFL 2240 Educational Psychology (GE)	3
PHYS 1101 College Physics I or	4	EDSP 2100 Education of Exceptional Child	3
PHYS 1104 Introduction to the Sciences: Physics	4	General Education - Literature	3
POLS 1510 <i>American Government (GE)</i>	3	<b>Semester Total</b>	<b>16</b>
STCH 3020 Science and Engineering Practices	3	<i>(Successfully complete MoGEA exam by end of this semester)</i>	
<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 1003 & 1006 or 1005 & 1006	4	BIOL 4102 Evolution	3
EASC Major Elective	3-4	EASC 3010 Environmental Geology	3
EDFL 4210 Introduction to Content Area Literacy	2	EDFL 4212 Literacy in the Disciplines I	2
PSY 4230 Psychology of Adolescence	3	EDFL 4973 Classroom Management in Content Areas	1
General Education	3	EDFL 4974 Content Specific Assessment	1
<b>Semester Total</b>	<b>15-16</b>	FLDX 3000 Field Experience in the Content Area***	1
		STCH 4050 Science Teaching Methods***	3
		<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>
BIOL, CHEM, EASC, or PHYS with a lab	4	FLDX 4468 Student Teaching Secondary II <sup>10</sup>	4
EDFL 2250 Introduction to English Language Learners and Culturally Responsive Pedagogy	2	FLDX 4595 Student Teaching Secondary I	5
EDFL 4970 Secondary Teaching & Behavioral Management	2	STCH 4080 Teaching Secondary Science	3
EDFL 4972 Literacy in the Disciplines II	2	<b>Semester Total</b>	<b>12</b>
FLDX 4970 Field Experience II in the Content Area	1		
General Education	3		
<b>Semester Total</b>	<b>14</b>		

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

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

- \*AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective, however this major does not require any free choice electives.
- \*\*This course is offered in alternate Spring semesters.
- \*\*\*These courses must be taken concurrently.
- <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 and enrollment in professional education classes. The application for student teaching is due approximately one year in advance.

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

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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>
EASC 1004 <i>Introduction to Geology (GE)</i>	4	CHEM 1131 General Chemistry I (GE)	5
ENGL 1020 <i>Composition I (GE)</i>	3	EASC 1114 or GEOG 1114 Weather and Climate	4
MATH 1111, 1131, 1150, or 1151	3-5	ENGL 1030 <i>Composition II or CTE 3060 Tech. Writing (GE)</i>	3
General Education	6	HIST 1350 or HIST 1351 History of the United States (GE)	3
<b>Semester Total</b>	<b>16-18</b>	General Education - Managing Information	2
AE 1400 University Foundations*	1	<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>
CHEM 1132 General Chemistry II	5	EASC 2200 Historical Geology**	4
EDFL 2100 Introduction to the Teaching Profession	3	EASC 3112 Astronomy	3
FLDX 2150 Introductory Field Experience	1	EDFL 2240 Educational Psychology (GE)	3
POLS 1510 <i>American Government (GE)</i>	3	EDSP 2100 Education of Exceptional Child	3
STCH 3020 Science and Engineering Practices	3	PHYS 1101 College Physics I or PHYS 2121 University Physics I	4-5
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>17-18</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>
BIOL 1111 Plant Biology	4	BIOL 4102 Evolution	3
EASC 3115 Oceanography	3	EASC 3010 Environmental Geology	3
EASC Major Elective	3-4	EDFL 4212 Literacy in the Disciplines I	2
EDFL 4210 Introduction to Content Area Literacy	2	EDFL 4973 Classroom Management in Content Areas	1
PHYS 1102 College Physics II or PHYS 2122 University Physics II	4-5	EDFL 4974 Content Specific Assessment	1
<b>Semester Total</b>	<b>16-18</b>	FLDX 3000 Field Experience in the Content Area***	1
		STCH 4050 Science Teaching Methods***	3
		<b>Semester Total</b>	<b>14</b>

<b>Junior Year - Summer Semester</b>	<b>Hrs</b>
PSY 4230 Psychology of Adolescence	3
General Education - Literature	3
General Education	3
<b>Semester Total</b>	<b>9</b>

<b>Senior Year - Fall Semester</b>	<b>Hrs</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs</b>
BIOL 1112 Animal Biology	4	FLDX 4468 Student Teaching Secondary II <sup>10</sup>	4
EDFL 2250 Introduction to English Language Learners and Culturally Responsive Pedagogy	2	FLDX 4595 Student Teaching Secondary I	5
EDFL 4970 Secondary Teaching & Behavioral Management	2	STCH 4080 Teaching Secondary Science	3
EDFL 4972 Literacy in the Disciplines II	2	<b>Semester Total</b>	<b>12</b>
FLDX 4970 Field Experience II in the Content Area	1	<i>(All non-student teaching coursework and tests must be successfully completed by the start of this semester for enrollment in student teaching.)</i>	
General Education	3		
<b>Semester Total</b>	<b>14</b>		

## 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 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 and enrollment in professional education classes. The application for student teaching is due approximately one year in advance.



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

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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 - Literature	3	General Education	7
General Education	6	Free Choice Electives	2
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>
<b>Note: Complete all B.S.B.A. admission requirements.*</b>			
<b>Junior Year - Fall Semester</b>	<b>Hrs</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs</b>
ECON 3010 Intermediate Macroeconomics (fall only)	3	CIS 3630 Management Information Systems	3
FIN 3801 Business Statistics II	3	ECON 3030 Intermediate Microeconomics	3
FIN 3850 Principles of Finance	3	MGT 3325 Business Communication	3
MGT 3315 Management of Organizations	3	MGT 3360 Supply Chain and Operations Management	3
Free Choice Electives	3	MKT 3405 Marketing Policy	3
<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>
MGT 4357 Organizational Policy and Strategy <sup>10</sup>	3	ECON 4000 Senior Seminar in Economics	3
ECON Major Electives***	6	ECON Major Electives***	6
Free Choice Elective	6	Free Choice Electives	6
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>

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

- \*Students in this major must complete eight preadmission courses with a grade of C or higher and must obtain a 2.25 cumulative GPA and a 2.25 in these specific courses, for admission to the degree program. These courses are recommended for completion during the freshman and sophomore years. These courses are indicated with an (\*).
- \*\*AE 1400 and BADM 1400 (1 hr.) are free choice electives and are highly recommended for academic success. If AE 1400 or BADM 1400 is chosen, 1 less hour of free choice electives will be needed.
- \*\*\*Some ECON major electives are offered fall or spring semester only, or are only taught online – check with the department for course offerings. Students may choose from the following ECON prefix classes: 3020, 3035, 3065, 4010, 4020, 4050, 4054, 4060, 4065, 4075, and 4080. Some of these courses are only offered online as part of the Missouri Association for Collaboration in Economics (MACE). See the Undergraduate Catalog for more information.
- <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 *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.

## Elementary Education Major (Option 1: Birth - Grade 3; Clinical Pathway), B.S. in Ed. Degree (41-286)

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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		Freshman Year - Spring Semester	
<i>ENGL 1020 Composition I (GE)</i>	Hrs 3	<i>ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE)</i>	Hrs 3
<i>MATH 1620 Contemporary Mathematics (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>

Sophomore Year - Fall Semester		Sophomore Year - Spring Semester	
D&N 2310 Early Childhood Nutrition & Health	Hrs 2	ECEL 2110 Diversity and Social Justice (GE)	Hrs 3
ECEL 2610 Life & Earth Science for Teachers	3	ECEL 2830 Early Childhood Principles and Observation	3
EDFL 2100 Introduction to the Teaching Profession	3	ECEL 2850 Int. of Arts & Movement in EC and Elem. Class.	3
FLDX 2150 Introductory Field Experience	1	EDFL 2250 Introduction to English Language Learners and Culturally Responsive Pedagogy	2
EDFL 2240 Educational Psychology (GE)	3	EDFL 3410 Children's Literature	3
EDSP 2100 Education of the Exceptional Child	3	MATH 2820 Elem. Math from an Advanced Perspective	3
General Education - Literature	3	<b>Semester Total</b>	<b>17</b>
<b>Semester Total</b>	<b>18</b>	<i>(Successfully complete MoGEA exam by end of this semester)</i>	

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

Junior Year - Fall Semester		Junior Year - Spring Semester	
<i>Junior Block 1: Methods for the Early Learner (PreK-K)</i>	Hrs	<i>Junior Block 2: Methods for the Young Learner (Grades 1-3)</i>	Hrs
<i>ECEL 3100 Early Childhood Assessment and Screening</i>	2	<i>ECEL 3151 Young Learner Practicum (Grades 1-3)</i>	2
<i>ECEL 3150 Early Childhood Practicum</i>	2	<i>ECEL 3310 Literacy and Communication Arts for the YL</i>	2
<i>ECEL 3300 Literacy and Communication Arts for EC</i>	1	<i>ECEL 3510 Social Studies and Econ. for the Young Learner</i>	1
<i>ECEL 3400 Language Development</i>	2	<i>ECEL 3610 Science for the Young Learner</i>	1
<i>ECEL 3500 Social Studies for Early Childhood</i>	1	<i>MATH 3810 Math for the Young Learner</i>	2
<i>ECEL 3600 Science for Early Childhood</i>	1	CFD 3250 Org. & Admin. of Programs for Young Children	3
<i>ECEL 3800 Math for Early Childhood</i>	1	ECEL 2901 Technology in Education Seminar II	1
ECEL 2510 Social Studies for Teaching Primary Grades	3	EDSP 3150 Community & Family Resources	2
ECEL 2900 Technology in Education Seminar I	1	EDSP 3151 Community & Family Resources Practicum	1
<b>Semester Total</b>	<b>14</b>	<b>Semester Total</b>	<b>15</b>

Senior Year - Fall Semester		Senior Year - Spring Semester*	
<i>Senior Block 1: Senior Experience</i>	Hrs	ECEL 4150 Student Teaching Professional Seminar	Hrs 2
<i>ECEL 4120 Curriculum Design and Assessment</i>	3	FLDX 4493 Student Teaching Early Childhood	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	<i>(All non-student teaching coursework and tests must be successfully completed before this semester for enrollment in student teaching.)</i>	
ECEL 3468 Community, School, & Family Connections	3		
<b>Semester Total</b>	<b>16</b>		

## Elementary Education Major (Option 1: Birth - Grade 3; Clinical Pathway), B.S. in Ed. Degree - 128 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 pursuing the double certification clinical pathways option will have the opportunity to complete all three Junior Blocks. Please see your Academic Advisor for course planning assistance.
- The Missouri General Education Assessment (MoGEA) is an exam required of all Teacher Education students. Students must pass all areas of the MoGEA for admission to the Teacher Education Program. Students should take and successfully complete the MoGEA before completion of their sophomore year (60 earned hours). See your academic advisor to discuss the classes needed to prepare for the exam.
- Teacher Education candidates must take the appropriate Missouri Content Assessment (MoCA) for their certification area before they can student teach, and must pass it in order to be recommended for certification. Information and registration is available on the MEGA website: <http://www.mo.nesinc.com/>.
- See [www.ucmo.edu/cert](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 (Option 1: Birth - Grade 3; Blended Pathway), B.S. in Ed. Degree (41-286)**

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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	ENGL 1030 <i>Composition II or CTE 3060 Tech. Writing (GE)</i>		3
MATH 1620 <i>Contemporary Mathematics (GE)</i>		3	HIST 1350 or 1351 <i>History of the United States (GE)</i>		3
POLS 1510 <i>American Government (GE)</i>		3	MATH 1820 <i>Introduction to Mathematical Modeling (GE)</i>		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 2610 <i>Life &amp; Earth Science for Teachers</i>		3	D&N 2310 <i>Early Childhood Nutrition &amp; Health</i>		2
EDFL 2100 <i>Introduction to the Teaching Profession</i>		3	ECEL 2110 <i>Diversity and Social Justice (GE)</i>		3
FLDX 2150 <i>Introductory Field Experience</i>		1	ECEL 2830 <i>Early Childhood Principles and Observation</i>		3
EDFL 2240 <i>Educational Psychology (GE)</i>		3	ECEL 2850 <i>Int. of Arts &amp; Movement in EC and Elem. Class.</i>		3
EDSP 2100 <i>Education of the Exceptional Child</i>		3	EDFL 2250 <i>Introduction to English Language Learners and Culturally Responsive Pedagogy</i>		2
General Education - Literature		3	EDFL 3410 <i>Children's Literature</i>		3
<b>Semester Total</b>		<b>16</b>	MATH 2820 <i>Elem. Math from an Advanced Perspective</i>		3
			<b>Semester Total</b>		<b>19</b>

<b>Sophomore Year - Summer Semester</b>		<b>Hrs</b>	<i>(Successfully complete MoGEA exam by end of this semester)</i>		
CFD 1220 <i>Child Development or PSY 2220 Child Psychology or PSY 3220 Lifespan Development</i>		3			
General Education		3			
<b>Semester Total</b>		<b>6</b>			

<b>Junior Year - Fall Semester</b>		<b>Hrs</b>	<b>Junior Year - Spring Semester</b>		<b>Hrs</b>
ECEL 2510 <i>Social Studies for Teaching Primary Grades</i>		3	CFD 3250 <i>Org. &amp; Admin. of Programs for Young Children</i>		3
ECEL 2900 <i>Technology in Education Seminar I</i>		1	ECEL 2901 <i>Technology in Education Seminar II</i>		1
ECEL 3225 <i>Acquisition of Language and Literacy</i>		4	ECEL 3230 <i>Teaching English Language Arts in the El. Class.</i>		3
ECEL 3430 <i>Strat. for Teaching Elem. Social Studies &amp; Science</i>		2	EDSP 3150 <i>Community &amp; Family Resources</i>		2
ECEL 3850 <i>Development &amp; Learning Through Play</i>		3	EDSP 3151 <i>Community &amp; Family Resources Practicum</i>		1
ECEL 3851 <i>Practicum in Early Childhood</i>		1	EDSP 4370 <i>Screening, Diagnosing, Prescribing Instruction</i>		3
MATH 3800 <i>Teaching &amp; Learning Numbers and Operations</i>		3	MATH 3801 <i>Teaching &amp; Learning Geometry &amp; Measurement</i>		3
<b>Semester Total</b>		<b>17</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>
<i>Senior Block 1: Senior Experience</i>			ECEL 4150 <i>Student Teaching Professional Seminar</i>		2
ECEL 4120 <i>Curriculum Design and Assessment</i>		3	FLDX 4493 <i>Student Teaching Early Childhood</i>		6
ECEL 4140 <i>Communication Arts Integration</i>		5	FLDX 4496 <i>Student Teaching Elementary II<sup>10</sup></i>		4
ECEL 4400 <i>Classroom Management &amp; Interactions</i>		3	<b>Semester Total</b>		<b>12</b>
MATH 4800 <i>Curriculum Design and Assessment in Math</i>		2			
ECEL 3468 <i>Community, School, &amp; Family Connections</i>		3			
<b>Semester Total</b>		<b>16</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 (Option 1: 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.
- <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.

**Elementary Education Major (Option 2: Grades 1 - 6; Clinical Pathway), B.S. in Ed. Degree (41-285)**

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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</b> - Fall Semester	<b>Hrs</b>	<b>Freshman Year</b> - Spring Semester	<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 Mathematics (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</b> - Fall Semester	<b>Hrs</b>	<b>Sophomore Year</b> - Spring Semester	<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 - Literature	3
EDSP 2100 Education of Exceptional Child	3	General Education	3
<b>Semester Total</b>	<b>16</b>	<b>Semester Total</b>	<b>17</b>
		<i>(Successfully complete MoGEA exam by end of this semester)</i>	

<b>Junior Year</b> - Fall Semester	<b>Hrs</b>	<b>Junior Year</b> - Spring Semester	<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 I	1
ECEL 2900 Technology in Education Seminar I	1	ECEL 3468 Community, School, & Family Connections	3
EDFL 3410 Children's Literature	3	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>18</b>		

<b>Senior Year</b> - Fall Semester	<b>Hrs</b>	<b>Senior Year</b> - Spring Semester+	<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>		
<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 (Option 2: Grades 1 - 6; Clinical 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.
- 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 (Option 2: Grades 1 - 6; Blended Pathway), B.S. in Ed. Degree (41-285)**

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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</b> - Fall Semester	<b>Hrs</b>	<b>Freshman Year</b> - Spring Semester	<b>Hrs</b>
ENGL 1020 <i>Composition I (GE)</i>	3	ENGL 1030 <i>Composition II or CTE 3060 Tech. Writing (GE)</i>	3
MATH 1620 <i>Contemporary Mathematics (GE)</i>	3	HIST 1350 or 1351 <i>History of the United States (GE)</i>	3
POLS 1510 <i>American Government (GE)</i>	3	MATH 1820 <i>Introduction to Mathematical Modeling (GE)</i>	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</b> - Fall Semester	<b>Hrs</b>	<b>Sophomore Year</b> - Spring Semester	<b>Hrs</b>
ECEL 2110 <i>Diversity and Social Justice (GE)</i>	3	ECEL 2620 <i>Physical Science &amp; Engin. Design for Teachers</i>	3
ECEL 2610 <i>Life &amp; Earth Science for Teachers</i>	3	ECEL 2850 <i>Integr. of Arts &amp; Movement in EC &amp; Elem. Class.</i>	3
EDFL 2240 <i>Educational Psychology (GE)</i>	3	EDFL 2250 <i>Introduction to English Language Learners and Culturally Responsive Pedagogy</i>	2
EDFL 2100 <i>Introduction to the Teaching Profession</i>	3	MATH 2820 <i>Elem. Math from an Advanced Perspective</i>	3
FLDX 2150 <i>Introductory Field Experience</i>	1	General Education - Literature	3
EDSP 2100 <i>Education of Exceptional Child</i>	3	General Education	3
<b>Semester Total</b>	<b>16</b>	<b>Semester Total</b>	<b>17</b>
		<i>(Successfully complete MoGEA exam by end of this semester)</i>	

<b>Junior Year</b> - Fall Semester	<b>Hrs</b>	<b>Junior Year</b> - Spring Semester	<b>Hrs</b>
CFD 1220 <i>Child Development or PSY 2220 Child Psychology or PSY 3220 Lifespan Development</i>	3	ECEL 2520 <i>Social Studies for Teaching Intermediate Grades</i>	3
ECEL 2510 <i>Social Studies for Teaching Primary Grades</i>	3	ECEL 2901 <i>Technology in Education Seminar II</i>	1
ECEL 2900 <i>Technology in Education Seminar I</i>	1	ECEL 3230 <i>Teaching English Language Arts in the El. Class.</i>	3
ECEL 3225 <i>Acquisition of Language and Literacy</i>	4	ECEL 3468 <i>Community, School, &amp; Family Connections</i>	3
ECEL 3430 <i>Strat. for Teaching Elem. Social Studies &amp; Science</i>	2	MATH 3800 <i>Teaching and Learning Numbers &amp; Operations</i>	3
EDFL 3410 <i>Children's Literature</i>	3	MATH 3801 <i>Teaching &amp; Learning Geometry &amp; Measurement</i>	3
<b>Semester Total</b>	<b>16</b>	<b>Semester Total</b>	<b>16</b>

<b>Senior Year</b> - Fall Semester	<b>Hrs</b>	<b>Senior Year</b> - Spring Semester+	<b>Hrs</b>
<i>Senior Block I: Senior Experience</i>		ECEL 4150 <i>Student Teaching Professional Seminar</i>	2
ECEL 4120 <i>Curriculum Design and Assessment</i>	3	FLDX 4495 <i>Student Teaching Elementary I</i>	6
ECEL 4140 <i>Communication Arts Integration</i>	5	FLDX 4496 <i>Student Teaching Elementary II<sup>10</sup></i>	4
ECEL 4400 <i>Classroom Management &amp; Interactions*</i>	3	<b>Semester Total</b>	<b>12</b>
MATH 4800 <i>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 (Option 2: Grades 1 - 6; Blended 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.
- 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 Major (Option 1: Electronics Engineering Technology), B.S. Degree (43-01282)

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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> ENGL 1020 Composition I (GE) ENGT 1500 Orientation to Engineering Technology* ET 1010 Applied Electricity ET 1026 DC Circuit Analysis* MATH 1112 College Trigonometry** <b>Semester Total</b>	<b>Hrs</b> 3 1 4 4 2 <b>14</b>	<b>Freshman Year - Spring Semester</b> CADD 1105 Basic AutoCAD CTE 1300 Introduction to Engineering Design or CADD 1110 Fundamentals of Drafting CTE 3060 Technical Writing (GE) ENGT 1000 Principles of Engineering ET 1027 AC Circuit Analysis* MATH 1131 Applied Calculus (GE) <b>Semester Total</b>	<b>Hrs</b> 1 3 3 3 3 3 <b>16</b>
<b>Sophomore Year - Fall Semester</b> CIS 1600 Business Information Management (GE) ECON 1010 Principles of Macroeconomics (GE) ET 1050 Digital Principles & Applications* PHYS 1101 College Physics I (GE) <b>Semester Total</b>	<b>Hrs</b> 3 3 4 4 <b>14</b>	<b>Sophomore Year - Spring Semester</b> CHEM 1103 Introduction to the Sciences: Chemistry (GE) COMM 1000 Public Speaking (GE) ENGT 1501 Seminar in Engineering Technology ET 2048 Active Electronic Devices* ET 2065 Computer Programming for Electronics Tech.* <b>Semester Total</b>	<b>Hrs</b> 3 3 1 3 4 <b>14</b>
<b>Junior Year - Fall Semester</b> ENGT 1501 Seminar in Engineering Technology ET 2060 Microprocessors: Theory & Applications* ET 3020 Circuit Analysis & Implementation* ET 3017 Programmable Logic Controllers* General Education - Literature <b>Semester Total</b>	<b>Hrs</b> 1 4 4 4 3 <b>16</b>	<b>Junior Year - Spring Semester</b> ENGT 3520 Engineering Economy ENGT 4580 Quality Systems ET 3014 Analog-Digital Circuitry* General Education <b>Semester Total</b>	<b>Hrs</b> 3 3 4 6 <b>16</b>
<b>Junior Year - Summer Semester</b> SOT 3022 Internship in Technology <b>Semester Total</b>	<b>Hrs</b> 1 <b>1</b>		
<b>Senior Year - Fall Semester</b> ENGT 2600 Lean Enterprises ENGT 4520 Robotics and Automation ET 3041 Communication Systems* NET 1060 Introduction to Networks General Education <b>Semester Total</b>	<b>Hrs</b> 3 3 3 3 3 <b>15</b>	<b>Senior Year - Spring Semester</b> ENGT 3530 Inspection and Quality Control ENGT 4110 Engineering Technology Problem Solving <sup>10</sup> CMGT 3320 Principles of Construction Management or INDM 4250 Project Management General Education <b>Semester Total</b>	<b>Hrs</b> 3 3 3 3 6 <b>15</b>

## Engineering Technology Major (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 *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.

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

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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	ENGL 1020 Composition I (GE)		3
CADD 1110 Fundamentals of Drafting+ or CTE 1300 Introduction to Engineering Design		3	ENGT 1510 Introduction to Manufacturing Processes*		3
CADD 1170 Introduction to Computer-Aided Drafting		2	ET 1010 Applied Electricity		4
CIS 1600 Business Information Management (GE)		3	MATH 1131 Applied Calculus (GE)		3
ENGT 1000 Principles of Engineering		3	General Education		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 2140 CAD & Design for Engineering Technology+		3
ENGT 2040 Engineering Materials Science		4	CMGT 3020 Applied Strength of Materials		3
ENGT 2530 Machine Tool Technology		3	COMM 1000 Public Speaking (GE)		3
PHYS 1101 College Physics I (GE)		4	CTE 3060 Technical Writing (GE)		3
<b>Semester Total</b>		<b>14</b>	ECON 1010 Principles of Macroeconomics (GE)		3
			ENGT 1501 Seminar in Engineering Technology		1
			<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 3120 Machine Drafting*+		3	CADD 4124 Geometric Dimensioning & Tolerancing Principles for Engineering Technology*		3
CADD 4171 Production Design/Drafting*		3	CADD 4174 Machine Design*		3
ENGT 1501 Seminar in Engineering Technology		3	CHEM 1103 Introduction to the Sciences: Chemistry (GE)		3
ENGT 2600 Lean Enterprises		1	ENGT 1120 Welding		3
General Education - Literature		3	ENGT 3562 Computer Numerical Control (CNC)		3
General Education		3	<b>Semester Total</b>		<b>15</b>
<b>Semester Total</b>		<b>16</b>			

<b>Junior Year - Summer Semester</b>		<b>Hrs</b>
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>
ATM 4032 Hydraulics & Pneumatics		3	ENGT 3530 Inspection and Quality Control		3
CMGT 3320 Principles of Construction Management or INDM 4250 Project Management		3	ENGT 4110 Engineering Technology Problem Solving <sup>10</sup>		3
ENGT 3520 Engineering Economy		3	ENGT 4580 Quality Systems		3
General Education		6	Departmentally Approved Option 2 Elective***		1
<b>Semester Total</b>		<b>15</b>	General Education		3
			<b>Semester Total</b>		<b>13</b>

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

- +A grade of C or higher is required in these courses for enrollment in future CADD courses.
- \*This class is only offered during the semester indicated.
- \*\*Enrollment in MATH 1112 assumes you have met the prerequisite MATH requirements in your high school curriculum. If you have not met these requirements MATH 1111 or proper MATH placement will be required per University planned placement guidelines.
- \*\*\*See departmental advisor for course recommendations.
- <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 *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.

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

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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 1000 Principles of Engineering	3	CADD 1110 Fundamentals of Drafting or CTE 1300 Introduction to Engineering Design	3
ENGT 1500 Orientation to Engineering Technology*	1	CTE 3060 Technical Writing (GE)	3
ENGT 1510 Introduction to Manufacturing Processes	3	ENGT 2040 Engineering Materials Science	4
MATH 1112 College Trigonometry**	2	ENGT 2530 Machine Tool Technology	3
General Education	3	MATH 1131 Applied Calculus (GE)	3
<b>Semester Total</b>	<b>15</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>
COMM 1000 Public Speaking (GE)	3	CADD 3120 Machine Drafting*+##	3
ENGT 1120 Welding	3	CHEM 1103 Introduction to the Sciences: Chemistry (GE)	3
ET 1010 Applied Electricity	4	ECON 1010 Principles of Macroeconomics (GE)	3
PHYS 1101 College Physics I (GE)	4	ENGT 1501 Seminar in Engineering Technology	1
<b>Semester Total</b>	<b>14</b>	ENGT 3530 Inspection & Quality Control*	3
		ENGT 3562 Computer Numerical Control (CNC)*	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>
CIS 1600 Business Information Management (GE)	3	CADD 4124 Geometric Dimensioning & Tolerancing Principles for Engineering Technology	3
ENGT 1501 Seminar in Engineering Technology	1	ENGT 3120 Advanced Welding Technology I	3
ENGT 2600 Lean Enterprises	3	ENGT 3520 Engineering Welding Economy	3
INDM 4240 Facilities Engineering	3	General Education	6
General Education - Literature	3	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>13</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>
ATM 4032 Hydraulics & Pneumatics	3	ENGT 4110 Engineering Technology Problem Solving* <sup>10</sup>	3
CMGT 3320 Principles of Construction Management or INDM 4250 Project Management	3	ENGT 4580 Quality Systems	3
ENGT 4520 Robotics & Automation*	3	ENGT 4750 Lean Six Sigma	3
ENGT 4590 Computer Integrated Manufacturing (CIM)*	3	ET 3017 Programmable Logic Controllers	4
General Education	3	General Education	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>16</b>

## 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.
- #This course has a prerequisite (CADD 2140) that is not included in the major curriculum. See the School of Technology for assistance with enrollment in this 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.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, [testingservices@ucmo.edu](mailto:testingservices@ucmo.edu)) for more information.



**Engineering Technology Major (Option 4: Civil Engineering Tech., Infrastructure Project Administration Emphasis), B.S. Degree (43-04282)**

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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	CMGT 2325 Project Cost Estimating	3
ENGT 2040 Engineering Material Sciences	4	CMGT 3020 Applied Strengths of Materials	3
PHYS 1101 College Physics I (GE)	4	EASC 2100 Engineering Geology	4
<b>Semester Total</b>	<b>14</b>	ENGT 1501 Seminar in Engineering Technology	1
		<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>
CADD 2171 Introduction to MicroStation	3	CADD 3150 Civil Drafting	3
CMGT 2340 Surveying and Construction Layout	3	CMGT 4380 Heavy Construction Methods and Materials	3
CMGT 3320 Principles of Construction Management or INDM 4250 Project Management	3	ENGT 4120 Hydrology and Drainage Design*	3
ENGT 1501 Seminar in Engineering Technology	1	ET 1010 Applied Electricity	4
ENGT 3520 Engineering Economy	3	General Education - Literature	3
ENGT 4140 Soils and Foundation Design*	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>
CMGT 4310 Construction Safety	3	ENGT 4110 Engineering Technology Problem Solving <sup>10</sup>	3
ENGT 4160 Transportation Systems Design*	3	ENGT 4580 Quality Systems	3
ENGT 4180 Water and Wastewater Systems Design*	3	General Education	9
General Education	6	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>15</b>		

**Engineering Technology Major (Option 4: Civil Engineering Technology, Infrastructure Project Administration Emphasis), 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.
- <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 *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.

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

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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		Freshman Year - Spring Semester	
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>		

Sophomore Year - Fall Semester		Sophomore Year - Spring Semester	
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>

Junior Year - Fall Semester		Junior Year - Spring Semester	
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>

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

Senior Year - Fall Semester		Senior Year - Spring Semester	
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 - Literature	3	<b>Semester Total</b>	<b>12</b>
General Education	3		
<b>Semester Total</b>	<b>15</b>		

## Engineering Technology Major (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 *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.

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

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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 (GE)	3
Modern Language Requirement*	3	Modern Language Requirement*	3
General Education - Mathematics	3	General Education	9
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>
ENGL 2010 Introduction to Reading Poetry and Drama (GE)	3	ENGL 4360 Shakespeare	3
ENGL 2020 Introduction to Reading Fiction (GE)	3	ENGL 2000-4000 Elective (if ENGL 2220 is chosen, this can also count in the BA Modern Language Requirement*)	3
General Education	9	Minor Coursework	3
<b>Semester Total</b>	<b>15</b>	General Education	3
		Free Choice Elective	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>
ENGL 3240 Critical Approaches to Literature	3	ENGL 4XXX Area Course Selection***	6
ENGL 4XXX Area Course Selection***	3	Minor Coursework	6
Minor Coursework	3	Free Choice Elective	3
Free Choice Electives	6	<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>
ENGL 4XXX Area Course Selection***	3	ENGL 4240 Senior Capstone in Literature <sup>10</sup>	3
Upper-Level (3000/4000) ENGL Elective	3	ENGL 4XXX Area Course Selection***	3
Minor Coursework	6	Upper-Level (3000/4000) ENGL Elective	3
Free Choice Elective	3	Minor Coursework	3
<b>Semester Total</b>	<b>15</b>	Free Choice Elective	3
		<b>Semester Total</b>	<b>15</b>

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

- \*Refer to the Bachelor's Degree Requirements section of the catalog for the BA Modern Language Requirements. This plan is based on 6 hours of modern language and 3 hours of ENGL 2220 World Masterpieces.
- \*\*AE 1400 is a free choice elective and is highly recommended for academic success.
- \*\*\*Students must complete 15 credit hours (5 classes) from five different areas. One course must be chosen from each of the five areas: Medieval or Renaissance Literature, 17th and 18th Century Literature, 19th Century Literature, 20th and 21st Century Literature, and Traditionally Underrepresented Literature. See the Undergraduate Catalog for the choices that fulfill this requirement.
- <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 a 21 hour minor. The number of free choice electives required will depend on the minor chosen.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, [testingservices@ucmo.edu](mailto:testingservices@ucmo.edu)) for more information.

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

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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	ENGL 1030 <i>Composition II (GE)</i>	3
General Education	12	POLS 1510 <i>American Government (GE)</i>	3
<b>Semester Total</b>	<b>15</b>	General Education - <i>Mathematics</i>	3
AE 1400 <i>University Foundations*</i>	1	General Education	6
		<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 2010 <i>Introduction to Reading Poetry and Drama (GE)</i>	3	ENGL 2020 <i>Introduction to Reading Fiction</i>	3
HIST 1350 or 1351 <i>History of the United States (GE)</i>	3	ENGL 2830 <i>Literature for Adolescents (spring only)</i>	3
(Foundations Block)#		ENGL 2220 <i>World Masterpieces (GE)</i>	3
EDFL 2240 <i>Educational Psychology#</i>	3	ENGL 4360 <i>Shakespeare</i>	3
EDFL 2100 <i>Introduction to the Teaching Profession#</i>	3	2000/3000/4000-level <i>English Elective</i>	3
FLDX 2150 <i>Introductory Field Experience#</i>	1	<b>Semester Total</b>	<b>15</b>
EDSP 2100 <i>Education of the Exceptional Child#</i>	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>
ENGL 3110 <i>English Grammar (fall only)</i>	3	EDFL 2250 <i>Introduction to English Language Learners &amp; Culturally Responsive Pedagogy##</i>	2
ENGL 3120 <i>History of the English Language (fall only)</i>	3	EDFL 4210 <i>Introduction to Content Area Literacy</i>	2
ENGL 3240 <i>Critical Approaches to Literature</i>	3	EDFL 4212 <i>Literacy in the Disciplines I</i>	2
Area 1-5 <i>Electives**</i>	6	ENGL 3040 <i>Advanced Rhetoric (spring only)</i>	3
<b>Semester Total</b>	<b>15</b>	ENGL 4974 <i>Assessment in Secondary English/Language Arts</i>	1
		FLDX 3000 <i>Field Experience in the Content Area##</i>	1
		Area 1-5 <i>Electives**</i>	6
		<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>
EDFL 4970 <i>Secondary Teaching &amp; Behavioral Management</i>	2	ENGL 4890 <i>Methods of Teaching English</i>	3
ENGL 4840 <i>Composition &amp; Evaluation (fall only)</i>	3	FLDX 4595 <i>Student Teaching Secondary I</i>	5
ENGL 4972 <i>Content Literacy in Secondary English/Lang. Arts</i>	2	FLDX 4468 <i>Student Teaching Secondary II<sup>10</sup></i>	4
ENGL 4973 <i>Classroom Management in Sec. English/LA</i>	1	<b>Semester Total</b>	<b>12</b>
FLDX 4970 <i>Field Experience II in the Content Area</i>	1	( <i>All non-student teaching coursework and tests must be successfully completed before this semester for enrollment in student teaching.</i> )	
PSY 4230 <i>Psychology of Adolescence (GE)</i>	3		
Area 1-5 <i>Elective**</i>	3		
<b>Semester Total</b>	<b>15</b>		

*During this semester take English content exam.*

## English 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.
- 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.

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

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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</b> - Fall Semester	<b>Hrs</b>
CIS 1600 Business Information Management (GE)*	3
ECON 1010 Principles of Macroeconomics (GE)*	3
ENGL 1020 Composition I (GE)	3
MATH 1111 College Algebra (GE)*	3
General Education	3
<b>Semester Total</b>	<b>15</b>
AE 1400 or BADM 1400 University Foundations**	1

<b>Freshman Year</b> - Spring Semester	<b>Hrs</b>
COMM 1000 Public Speaking or COMM 1050 Fundamentals of Oral Communication Competency (GE)	3
ECON 1011 Principles of Microeconomics*	3
ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE)	3
General Education#	6
<b>Semester Total</b>	<b>15</b>

<b>Sophomore Year</b> - Fall Semester	<b>Hrs</b>
ACCT 2101 Principles of Financial Accounting*	3
BLAW 2720 Legal Environment of Business*	3
General Education - Literature	3
General Education	6
<b>Semester Total</b>	<b>15</b>

<b>Sophomore Year</b> - Spring Semester	<b>Hrs</b>
ACCT 2102 Principles of Managerial Accounting*	3
FIN 2801 Business Statistics I*	3
General Education	7
Free Choice Electives	2
<b>Semester Total</b>	<b>15</b>

**Note: Complete all BSBA Admission requirements.\***

<b>Junior Year</b> - Fall Semester	<b>Hrs</b>
MGT 3325 Business Communications (IBE Block-below)***	3
CIS 3630 Management Information Systems***	3
MGT 3315 Management of Organizations***	3
MKT 3405 Marketing Policy***	3
IBE Practicum (CIS 3685/MKT 3485/MGT 3385)***	3
<b>Semester Total</b>	<b>15</b>

<b>Junior Year</b> - Spring Semester	<b>Hrs</b>
ESE 3710 Entrepreneurial Business Planning	3
ESE 3715 Entrepreneurial Business Planning Lab	1
FIN 3801 Business Statistics II	3
FIN 3850 Principles of Finance	3
Free Choice Electives (internship recommended)	3
Major Electives##	3
<b>Semester Total</b>	<b>16</b>

<b>Senior Year</b> - Fall Semester	<b>Hrs</b>
ESE 3720 Social Enterprise for Entrepreneurs (fall only)	3
ESE 3725 Social Enterprise Lab (fall only)	1
MGT 3360 Supply Chain and Operations Management	3
Major Electives##	3
Free Choice Electives (internship recommended)	3
<b>Semester Total</b>	<b>13</b>

<b>Senior Year</b> - Spring Semester	<b>Hrs</b>
ESE 4710 Commercialization (spring only)	3
ESE 4715 Commercialization Lab (spring only)	1
MGT 4357 Organizational Policy & Strategy <sup>10</sup>	3
Major Electives##	3
Free Choice Electives (internship recommended)**	6
<b>Semester Total</b>	<b>16</b>

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

- \*Students in this major must complete eight preadmission courses with a grade of C or higher and obtain a 2.25 cumulative GPA and a 2.25 in these specific courses, for admission to the degree program. These courses are recommended for completion during the freshman and sophomore years. These courses are indicated with an (\*).
- \*\*AE or BADM 1400 (1 hr.) are highly recommended for academic success. AE or BADM 1400 counts as a free choice elective. If chosen, 1 less hour of free choice elective will be required in the senior year.
- \*\*\***All Entrepreneurship and Social Enterprise majors must enroll in the IBE Block.** This includes the IBE Practicum (MGT 3385, MKT 3485 or CIS 3685) concurrently with the IBE sections of MGT 3315, MKT 3405 and CIS 3630. This is typically done during the fall of the junior year. Prerequisites for the IBE block include: ACCT 2101, CIS 1600, and junior standing.
- #In the General Education curriculum: WGS 2000 is recommended in Knowledge Area III; PHIL 2300 is recommended in Engagement.
- ##9-10 hours of major electives are required. See the course listing in the 2016 Undergraduate Catalog for course 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.
- A 2.25 cumulative GPA is required for graduation with in this major.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, [testingservices@ucmo.edu](mailto:testingservices@ucmo.edu)) for more information.

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

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<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 - Mathematics	3
FAME 1445 Fashion Seminar 1*	1	General Education (If chosen, ECON 1010 will also count in the Business Administration and/or Marketing minors)**	6
General Education (If chosen, CIS 1600 will also count in the Business Administration minor)**	3	<b>Semester Total</b>	<b>15</b>
<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 - Literature	3
General Education	6
<b>Semester Total</b>	<b>13</b>

<b>Sophomore Year - Spring Semester</b>	<b>Hrs</b>
FAME 2425 Apparel Quality Analysis*	3
Major Elective##	3
Minor Coursework (BLAW 2720 recommended for overlap with both Marketing and Business Administration minors)**	3
General Education	7
<b>Semester Total</b>	<b>16</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	3
<b>Semester Total</b>	<b>13</b>

<b>Junior Year - Spring Semester</b>	<b>Hrs</b>
ACCT 2101 Principles of Financial Accounting (also counts towards Business Administration minor)**	3
FAME 3435 Fashion Buying*	3
FAME 3440 Fashion Promotion and Visual Merchandising*	3
Minor Coursework (MKT 3405 required for both minors)**	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
Free Choice Electives###	5
<b>Semester Total</b>	<b>14</b>

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

- \*This class is only offered during the semester indicated.
- \*\*This major requires a minor in either Business Administration or Marketing. If the Business Administration minor is selected, take CIS 1600 (3 hours) to fulfill the technology requirement in general education. ECON 1010, if chosen, will count in the general education and towards either minor. ACCT 2101 in the major will overlap with 3 hours of the Business Administration minor.
- #FAME 2440 Professional Work Experience is a prerequisite to FAME 4490 Internship in FAME. The two courses cannot be taken during the same summer semester. FAME 2440 can be taken after either the freshman or sophomore years and FAME 4490 can be taken after either the junior or senior years.
- ##Choose six hours of major electives from the following list: FAME 2440 (up to 3 additional hours), 2450, 4450, 4490 (up to 3 additional hours), or GRAP 2030.
- ###The number of free choice electives required is based on the minor chosen. If the Marketing minor is chosen, 6 hours of free choice electives are needed. If Business Administration is chosen, 12 hours of free choice electives will be required because ACCT 2101 will overlap with the major and CIS 1600 will overlap with the general education.
- <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 *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.

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

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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 - Literature	3	General Education	7
General Education	6	Free Choice Electives	2
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>
		Note: Complete all B.S.B.A. Admission requirements.*	
<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 *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.

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

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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 2610 Introduction to Graphic Design & Illustration	3
ENGL 1020 Composition I (GE)	3	ART 2620 Typography	3
GRAP 1010 Digital Pre/Media Fundamentals	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>

<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 2710 Printmaking I	3
ART 3660 Publication Design	3	ART 3620 Logo & Trademark Design	3
Major Elective*	3	ART 3680 History of Graphic Design	3
General Education - Literature	3	General Education	6
General Education - Mathematics	3	<b>Semester Total</b>	<b>18</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 2412 Ceramics I or ART 2420 Sculpture I	3	ART 2511 Painting I	3
ART 3630 Design for Advertising	3	ART 3640 Package Design	3
Major Elective*	3	ART 4610 Interactive Design	3
General Education	6	General Education	6
<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 3510 Watercolor	3	ART 4020 Studio Seminar <sup>10</sup>	3
ART 3650 Narrative Animation or ART 4620 Motion Design	3	ART 4221 Art Theory and Criticism	3
Major Elective*	3	ART Elective	3
General Education	6	Major Elective*	3
<b>Semester Total</b>	<b>15</b>	General Education (only 6 hours needed if COMM 1200 is chosen as one of the major electives*)	0-3
		<b>Semester Total</b>	<b>12-15</b>

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

- \*This major requires 12 hours of major electives. The 12 hours of major electives should be chosen from the list provided in the Undergraduate Catalog. If COMM 1200 is chosen, this course will overlap with general education requirements and the student will graduate with 123 credit hours.
- <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 should meet with program area faculty for more detailed advice regarding the sequencing of required major coursework in this major.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, [testingservices@ucmo.edu](mailto:testingservices@ucmo.edu)) for more information.



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

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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	CIS 1600 Business Information Management (GE)	3
GRAP 1000 Orientation to Graphic Technologies*	1	GRAP 2030 Pre-Media Applications - Adobe Illustrator	3
GRAP 1010 Digital PreMedia Fundamentals	3	GRAP 2031 Pre-Media Applications - Adobe Photoshop	3
GRAP 1610 Principles of Web Media*	3	General Education (If ECON 1010 is chosen will also count as a major Option 1 elective)#	6
General Education - Mathematics	3	<b>Semester Total</b>	<b>15</b>
General Education	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>
GRAP 2032 Pre-Media Applications - Adobe InDesign	3	ART 2610 Introduction to Graphic Design & Illustration	3
GRAP 2620 Web Media Applications	3	GRAP 2035 Applied Media Workflows	3
General Education - Communication (COMM 1000 or 1050 recommended to meet MGT 3325 prerequisite)	3	GRAP 3010 Social Media, Mobile Apps, and Content Mgmt.	3
General Education	6	Major Option 1 Electives**#	3-6
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>12-15</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 Packaging Technologies*	3	CTE 3060 Technical Writing (GE)	3
GRAP 3034 Commercial and Publication Technologies*	3	GRAP 3030 Digital Output Technologies*	3
GRAP 3040 Screen & Specialty Graphics	3	GRAP 3043 Finishing & Distribution*	3
MGT 3315 Management of Organizations or INDM 4250 Project Management	3	GRAP 3051 Graphic Technologies Management*	3
General Education	3	Free Choice Electives#	0-3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>12-15</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 3057 Quality Control for Print Media*	3	GRAP 4051 Print Production*	3
GRAP 4038 Color Management*	3	GRAP 4055 Estimating & Costing for Print Media*###	3
GRAP 4053 Production Analysis* <sup>10</sup>	3	GRAP 4095 Senior Seminar in Graphic Technologies*	1
General Education (literature and lab science)	7	MGT 3325 Business Communication	3
<b>Semester Total</b>	<b>16</b>	General Education	3
		Free Choice Electives#	1
		<b>Semester Total</b>	<b>14</b>

**Graphic Technologies Major (Option 1: Print Media Technology Mgmt.), B.S. Degree, 120 hours**

- \*This class is only offered during the semester indicated.
- \*\*See the 2016 Undergraduate Catalog for the list of approved major option electives. Some of the Major Option 1 Electives can be used to work towards a minor in Business Administration or Marketing, if elected.
- \*\*\*GRAP 3016 Experiences in Graphic Production may be completed in a Summer, Fall or Spring Semester. It should be taken during the Sophomore or Junior years. Contact the instructor for permission to enroll.
- #If ECON 1010 is chosen for 3 hours of major option 1 electives, those hours will overlap with general education. The number of free choice electives needed will depend on choices made in the general education and major.
- ##SOT 3022 may be completed in a Summer, Fall or Spring Semester. It should be taken during the Junior or Senior years. Contact the instructor for permission to enroll.
- ###It is recommended that students enroll in GRAP 4055, Estimating & Costing for Print Media, during the spring semester immediately prior to graduation.
- <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 *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.

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

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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	CIS 1600 Business Information Management (GE)	3
GRAP 1000 Orientation to Graphic Technologies*	1	GRAP 2030 Pre-Media Applications - Adobe Illustrator	3
GRAP 1010 Digital PreMedia Fundamentals	3	GRAP 2031 Pre-Media Applications - Adobe Photoshop	3
GRAP 1610 Principles of Web Media*	3	General Education	6
General Education - Mathematics	3	<b>Semester Total</b>	<b>15</b>
General Education	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>
GRAP 2032 Pre-Media Applications - Adobe InDesign	3	ART 2610 Introduction to Graphic Design & Illustration	3
GRAP 2620 Web Media Applications	3	GRAP 2035 Applied Media Workflows	3
General Education	9	GRAP 3010 Social Media, Mobile Apps, and Content Mgmt.	3
<b>Semester Total</b>	<b>15</b>	Major Option 2 Elective**	3
		General Education	3
		<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 Packaging Technologies*	3	CTE 3060 Technical Writing (GE)	3
GRAP 3034 Commercial and Publication Technologies*	3	GRAP 3030 Digital Output Technologies*	3
GRAP 3040 Screen & Specialty Graphics	3	GRAP 3051 Graphic Technologies Management*	3
MGT 3315 Management of Organizations or INDM 4250 Project Management	3	Major Option 2 Elective**	3
Major Option 2 Elective**	3	General Education	3
<b>Semester Total</b>	<b>15</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	GRAP 4095 Senior Seminar in Graphic Technologies*	1
Major Option 2 Elective**	3	Major Option 2 Elective**	6
General Education - Science with Laboratory	4	General Education - literature	3
<b>Semester Total</b>	<b>13</b>	Free Choice Elective	1
		<b>Semester Total</b>	<b>14</b>

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

- \*This class is only offered during the semester indicated.
- \*\*See the 2016 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.
- <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 *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.

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

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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	CIS 1600 Business Information Management (GE)	3
GRAP 1000 Orientation to Graphic Technologies	3	GRAP 2030 Pre-Media Applications - Adobe Illustrator	3
GRAP 1010 Digital PreMedia Fundamentals	1	GRAP 2031 Pre-Media Applications - Adobe Photoshop	3
GRAP 1610 Principles of Web Media	3	General Education	6
General Education - Mathematics	3	<b>Semester Total</b>	<b>15</b>
General Education	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>
GRAP 2032 Pre-Media Applications - Adobe InDesign	3	ART 2610 Introduction to Graphic Design & Illustration	3
GRAP 2620 Web Media Applications	3	GRAP 2035 Applied Media Workflows	3
General Education	9	GRAP 3010 Social Media, Mobile Apps, and Content Mgmt.	3
<b>Semester Total</b>	<b>15</b>	Major Option 3 Elective**	3
		General Education	3
		<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	CTE 3060 Technical Writing (GE)	3
GRAP 3024 Packaging Technologies*	3	GRAP 2670 Web Media Animation	3
GRAP 3034 Commercial and Publication Technologies*	3	GRAP 3030 Digital Output Technologies	3
GRAP 3040 Screen & Specialty Graphics	3	GRAP 3051 Graphic Technologies Management*	3
MGT 3315 Management of Organizations or		General Education	3
INDM 4250 Project Management	3	<b>Semester Total</b>	<b>15</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	GRAP 4095 Senior Seminar in Graphic Technologies*	1
Major Option 3 Elective**	3	Major Option 3 Electives**	6-7
General Education - Science with Laboratory	4	General Education - literature	3
<b>Semester Total</b>	<b>13</b>	Free Choice Elective	0-1
		<b>Semester Total</b>	<b>14</b>

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

- \*This class is only offered during the semester indicated.
- \*\*See the 2016 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 *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.

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

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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	CIS 1600 Business Information Management (GE)	3
GRAP 1000 Orientation to Graphic Technologies	1	GRAP 2030 Pre-Media Applications - Adobe Illustrator	3
GRAP 1010 Digital PreMedia Fundamentals	3	GRAP 2031 Pre-Media Applications - Adobe Photoshop	3
GRAP 1610 Principles of Web Media	3	General Education	6
General Education - Mathematics	3	<b>Semester Total</b>	<b>15</b>
General Education	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>
GRAP 2032 Pre-Media Applications - Adobe InDesign	3	ART 2610 Introduction to Graphic Design & Illustration	3
GRAP 2620 Web Media Applications	3	GRAP 2035 Applied Media Workflows	3
Major Option 4 Electives***	6	GRAP 3010 Social Media, Mobile Apps, and Content Mgmt.	3
General Education	3	General Education	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>12</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 Packaging Technologies*	3	CTE 3060 Technical Writing (GE)	3
GRAP 3034 Commercial and Publication Technologies*	3	GRAP 3030 Digital Output Technologies	3
GRAP 3040 Screen & Specialty Graphics	3	GRAP 3051 Graphic Technologies Management*	3
Major Option 4 Elective**	3	Major Option 4 Elective***	3
General Education	3	General Education	3
<b>Semester Total</b>	<b>15</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	GRAP 4095 Senior Seminar in Graphic Technologies*	1
MGT 3315 Management of Organizations or INDM 4250 Project Management	3	Major Option 4 Electives***	6-7
General Education - Literature	3	General Education	3
General Education - Science with Laboratory	4	Free Choice Elective	0-1
<b>Semester Total</b>	<b>16</b>	<b>Semester Total</b>	<b>14</b>

**Graphic Technologies Major (Option 4: Packaging Technology), B.S. Degree - 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 2016 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 *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.

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

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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	CIS 1600 Business Information Management (GE)	3
GRAP 1000 Orientation to Graphic Technologies	1	GRAP 2030 Pre-Media Applications - Adobe Illustrator	3
GRAP 1010 Digital PreMedia Fundamentals	3	GRAP 2031 Pre-Media Applications - Adobe Photoshop	3
GRAP 1610 Principles of Web Media	3	General Education	6
General Education - Mathematics	3	<b>Semester Total</b>	<b>15</b>
General Education	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>
GRAP 2032 Pre-Media Applications - Adobe InDesign	3	ART 2610 Introduction to Graphic Design & Illustration	3
GRAP 2620 Web Media Applications	3	GRAP 2035 Applied Media Workflows	3
PHOT Major Option 5 Elective**	3	GRAP 3010 Social Media, Mobile Apps, and Content Mgmt.	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 Packaging Technologies*	3	CTE 3060 Technical Writing (GE)	3
GRAP 3034 Commercial and Publication Technologies*	3	GRAP 3030 Digital Output Technologies	3
GRAP 3040 Screen & Specialty Graphics	3	GRAP 3051 Graphic Technologies Management*	3
MGT 3315 Management of Organizations or		PHOT Major Option 5 Elective**	3
INDM 4250 Project Management	3	General Education	3
General Education - Science with Laboratory	4	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>16</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	GRAP 4095 Senior Seminar in Graphic Technologies*	1
PHOT Major Option 5 Elective**	3	PHOT Major Option 5 Elective**	3
General Education - Literature	3	General Education	6
Free Choice Elective	1	<b>Semester Total</b>	<b>13</b>
<b>Semester Total</b>	<b>13</b>		

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

- \*This class is only offered during the semester indicated.
- \*\*See your faculty mentor for advice on selecting the 18 hours of PHOT major option electives. Choose PHOT 1210, 1211, 2210 and 2250 for 10 of the 18 Major Option 5 Electives to work towards a minor in Photography. The Photography minor requires 20-21 hours, so an additional PHOT class will be needed to complete the minor.
- \*\*\*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 *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.

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

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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	CHEM 1131 General Chemistry I (GE)** *	5
MATH 1111 College Algebra (GE)#	3	CTE 3060 Technical Writing (GE)#	3
PE 2472 Communicating Ideas on Sport (GE)#	3	PE 1800 Functional Anatomy#	3
SOC 1800 General Sociology (GE)#	3	PSY 1100 General Psychology (GE)#	3
General Education	3	General Education - Managing Information	2
<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>
BIOL 3401 Human Anatomy#	3	BIOL 3402 Human Physiology#	5
CHEM 1132 General Chemistry II#	5	PE 2850 Foundations of Exercise Physiology#	3
PE 2800 Biomechanics#	3	PHIL 2300 Ethics (GE)#	3
General Education - Literature	3	General Education	3
General Education	3	<b>Semester Total</b>	<b>14</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>
AT 2640 Introduction to Therapeutic Rehabilitation#+	2	AT 2630 Therapeutic Modalities#+	3
HED 4370 Human Diseases#	3	AT 2631 Therapeutic Modalities Lab#+	1
PHYS 1101 College Physics I (GE)#	4	BIOL 2510 Basic Genetics#	3
PSY 3220 Life-Span Development#	3	PHYS 1102 College Physics II#	4
Free Choice Electives	3	PSY 4440 Abnormal Psychology #	3
<b>Semester Total</b>	<b>15</b>	Free Choice Electives	2
		<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>
BIOL 3215 Medical Terminology#	3	PE 4341 Physical Activity and Special Populations#	3
HED 4330 First Aid & CPR#	1	PE 4765 Internship# <sup>10</sup>	6
PE 4850 Assessment and Evaluation of Fitness/WWellness#	3	PE 4870 Clinical Exercise Physiology#	3
PSY 4520 Statistics for the Behavioral Sciences#	3	Free Choice Electives	1
Free Choice Electives	4	<b>Semester Total</b>	<b>13</b>
<b>Semester Total</b>	<b>14</b>		

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

- #A grade of C or better is required in these courses.
- \*AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- \*\*Enrollment in CHEM 1131 requires a score of 21 on the mathematics section of the ACT, a score of 550 on the mathematics section of the SAT, a passing score on a mathematics examination approved by the School of Environmental, Physical, and Applied Sciences, or a grade of C or better in MATH 1111.
- +This course has many prerequisites that are not part of this major. See the Department of Nutrition and Kinesiology for assistance with enrollment.
- <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 *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.

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

**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 *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.

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

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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	
HIST 1350 History of the United States to 1877 (GE)*	3	or CTE 3060 Tech. Writing (GE)	3
Modern Language Requirement (GE)**	3	HIST 1351 History of the United States from 1877 (GE)*	3
General Education - Mathematics	3	HIST 1402 History of Modern World*	3
General Education	3	Modern Language Requirement	3
<b>Semester Total</b>	<b>15</b>	General Education	3
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>
HIST 1400 History of the Early World*	3	HIST 1401 History of the Early Modern World*	3
Modern Language Requirement	3	Modern Language Requirement	3
General Education - Literature	3	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>
HIST 3010 The Historian's Craft	3	Upper-Level Elective in American History	3
Upper-Level Elective in American History	3	Upper-Level Elective in World History#	3
Free Choice Electives	9	Free Choice Electives	9
<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>
Upper-Level Elective in World History#	6	HIST 4500 Senior Capstone in History## <sup>10</sup>	3
Upper-Level Elective in History	3	Free Choice Electives	12
Free Choice Electives	6	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>15</b>		

## 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, 1400, 1401, and 1402. 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 HIST 3010 The Historian's Craft as a prerequisite. Students may not take HIST 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 *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.



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

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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
HIST 1350 History of the United States to 1877 (GE)*	3	HIST 1351 History of the United States from 1877 (GE)*	3
General Education - Mathematics	3	HIST 1402 History of Modern World*	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>
HIST 1400 History of the Early World*	3	HIST 1401 History of the Early Modern World*	3
General Education - Literature	3	General Education	3
General Education	9	Free Choice Electives#	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>
HIST 3010 The Historian's Craft	3	Upper-Level Elective in American History	3
Upper-Level Elective in American History	3	Upper-Level Elective in World History***	3
Free Choice Electives#	9	Free Choice Electives#	9
<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>
Upper-Level Elective in World History***	6	HIST 4500 Senior Capstone in History## <sup>10</sup>	3
Upper-Level Elective in History	3	Free Choice Electives#	12
Free Choice Electives#	6	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>15</b>		

## History Major, B.S. Degree - 120 hours

- A grade of C or better is required in all major courses.
- \*Must earn a 2.50 combined GPA in the following courses: HIST 1350, 1351, 1400, 1401, and 1402. Students must apply for admission to the major program after completion of the five survey courses. See department (Wood 136, 660-543-4404).
- \*\*AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- \*\*\*A minimum of three hours of world history must be non-western history, or HIST 4452 or HIST 4453.
- #See department history advisor for suggestions on using free choice electives toward one of the areas (Business, Geographic Information Systems (GIS), Web Management, Law, Africana Studies, Digital Media Production, Criminal Justice, Safety Sciences, Instructional Design, or build your own area) which can easily become a minor with a few additional courses. Minors and double majors are strongly encouraged.
- ##HIST 4500 Senior Capstone in History is usually only offered in the spring semesters and has HIST 3010 The Historian's Craft as a prerequisite. Students may not take HIST 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 *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.

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

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Freshman Year - Fall Semester		Hrs	Freshman Year - Spring Semester		Hrs
CIS 1600 Business Information Management (GE)*		3	ECON 1010 Principles of Macroeconomics (GE)*		3
COMM 1000 Public Speaking or COMM 1050 Fundamentals of Oral Communication Competency (GE)		3	ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE)		3
ENGL 1020 Composition I (GE)		3	General Education		9
MATH 1111 College Algebra (GE)*		3	<b>Semester Total</b>		<b>15</b>
General Education		3			
<b>Semester Total</b>		<b>15</b>			
AE 1400 or BADM 1400 University Foundations**		1			

Sophomore Year - Fall Semester		Hrs	Sophomore Year - Spring Semester		Hrs
ACCT 2101 Principles of Financial Accounting*		3	ACCT 2102 Principles of Managerial Accounting*		3
BLAW 2720 Legal Environment of Business*		3	FIN 2801 Business Statistics I*		3
ECON 1011 Principles of Microeconomics*		3	HM 2830 Hospitality Case Analysis		1
General Education - Literature		3	HM 3844 Restaurant Operations (spring only)		3
General Education - science with a laboratory		4	General Education		6
<b>Semester Total</b>		<b>16</b>	<b>Semester Total</b>		<b>16</b>

**Note: Complete all BSBA Admission requirements.\***

Summer Semester	Hrs
HM 3880 Internship (typically completed during the summer after 2nd or 3rd year - may be done during a regular semester.)***	3
<b>Semester Total</b>	<b>3</b>

Junior Year - Fall Semester		Hrs	Junior Year - Spring Semester		Hrs
FIN 3801 Business Statistics II		3	HM 3830 Hospitality and Tourism Marketing (spring only)		3
FIN 3850 Principles of Finance		3	<b>(IBE Block-below)#</b>		
HM 2830 Hospitality Case Analysis		1	CIS 3630 Management Information Systems#		3
HM 3800 Lodging Management (fall only)		3	MGT 3315 Management of Organizations#		3
MGT 3325 Business Communications		3	MKT 3405 Marketing Policy#		3
<b>Semester Total</b>		<b>13</b>	IBE Practicum (CIS 3685/MKT 3485/MGT 3385)#		3
			<b>Semester Total</b>		<b>15</b>

Senior Year - Fall Semester		Hrs	Senior Year - Spring Semester		Hrs
HM 3835 Facilities Management (fall only)		3	HM 3825 Events Management (spring only)		3
HM 3870 Digital Hospitality Management (fall only)		3	HM 4845 Senior Seminar (spring only)		3
HRM 3920 Human Resource Management		3	MGT 4357 Organizational Policy & Strategy <sup>10</sup>		3
MGT 3320 System, Teams, & Organizational Behavior		3	Free Choice Electives**		3
MGT 3360 Supply Chain and Operations Management		3	<b>Semester Total</b>		<b>12</b>
<b>Semester Total</b>		<b>15</b>			

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

- \*Students in this major must complete eight preadmission courses with a grade of C or higher and must obtain a 2.25 cumulative GPA and a 2.25 in these specific courses, for admission to the degree program. These courses are recommended for completion during the freshman and sophomore years. These courses are indicated with an (\*).
- \*\*AE or BADM 1400 (1 hr.) is highly recommended for academic success. AE or BADM 1400 counts as a free choice elective. If AE or BADM 1400 is chosen, 1 less hour of free choice electives will be needed.
- \*\*\*A cumulative GPA of 2.50, 21 hours earned at UCM, and 60 hours earned overall is required for enrollment in the Internship (HM 3880).
- #All Hospitality Management majors must enroll in the IBE Block.** This includes the IBE Practicum (MGT 3385, MKT 3485 or CIS 3685) concurrently with the IBE sections of MGT 3315, MKT 3405 and CIS 3630. This is typically done during the fall of the junior year. Prerequisites for the IBE block include: ACCT 2101, CIS 1600, and junior standing.
- <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 with in this major.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, [testingservices@ucmo.edu](mailto:testingservices@ucmo.edu)) for more information.

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

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<p><b>Freshman Year - Fall Semester</b>                      ENGL 1020 Composition I (GE)                      General Education - Mathematics                      General Education  <b>Semester Total</b>                      AE 1400 University Foundations*</p>	<p><b>Hrs</b>                      3                      3                      9  <b>15</b>                      1</p>	<p><b>Freshman Year - Spring Semester</b>                      CHEM 1104 Introduction to the Sciences: Chemistry (GE)                      COMM 1000 Public Speaking or COMM 1050                      Fundamentals of Oral Communication Competency (GE)                      ECON 1010 Principles of Macroeconomics (GE)                      ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE)                      General Education - Managing Information  <b>Semester Total</b></p>	<p><b>Hrs</b>                      4                      3                      3                      3                      3                      2-3  <b>15-16</b></p>
<p><b>Sophomore Year - Fall Semester</b>                      ACCT 2101 Principles of Financial Accounting                      FOOD 2322 Food Preparation                      HM 2830 Hospitality Management Case Analysis***                      General Education - Literature                      General Education  <b>Semester Total</b></p>	<p><b>Hrs</b>                      3                      3                      1                      3                      3  <b>13</b></p>	<p><b>Sophomore Year - Spring Semester</b>                      BLAW 2720 Legal Environment of Business                      FOOD 3332 Quantity Food Production &amp; Service                      GEOG 2212 World Geography (GE)                      HM 3844 Restaurant Operations (spring only)                      General Education  <b>Semester Total</b></p>	<p><b>Hrs</b>                      3                      3                      3                      3                      3  <b>15</b></p>
<p><b>Summer Semester Following Fr. or Soph. Year</b>                      HM 3810 Internship**  <b>Semester Total</b></p>	<p><b>Hrs</b>                      3  <b>3</b></p>		
<p><b>Junior Year - Fall Semester</b>                      HM 3800 Lodging Management (fall only)                      HM 3845 Hospitality Operations Analysis (fall only)                      MGT 3320 Systems, Teams, &amp; Organizational Behavior                      MGT 3325 Business Communication  <b>Semester Total</b></p>	<p><b>Hrs</b>                      3                      3                      3                      3  <b>12</b></p>	<p><b>Junior Year - Spring Semester</b>                      HM 2830 Hospitality Management Case Analysis***                      HM 3825 Events Management (spring only)                      HM 3830 Hospitality and Tourism Marketing (spring only)                      HRM 3920 Human Resource Management                      Free Choice Electives  <b>Semester Total</b></p>	<p><b>Hrs</b>                      1                      3                      3                      3                      4  <b>14</b></p>
<p><b>Summer Semester Following Junior Year</b>                      HM 4810 Internship  <b>Semester Total</b></p>	<p><b>Hrs</b>                      5  <b>5</b></p>		
<p><b>Senior Year - Fall Semester</b>                      HM 3835 Facilities Management (fall only)                      HM 3870 Digital Hospitality Management (fall only)                      Free Choice Electives  <b>Semester Total</b></p>	<p><b>Hrs</b>                      3                      3                      9  <b>15</b></p>	<p><b>Senior Year - Spring Semester</b>                      HM 2830 Hospitality Management Case Analysis***                      HM 4845 Senior Seminar (spring only)<sup>10</sup>                      Free Choice Electives  <b>Semester Total</b></p>	<p><b>Hrs</b>                      1                      3                      8-9  <b>12-13</b></p>

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

- \*AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- \*\*This major requires 8 hours of internship (HM 3810 and HM 4810).
- \*\*\*HM 2830 Hospitality Management Case Analysis is a one credit hour course that must be taken three times.
- <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 *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.

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

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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 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 - Mathematics	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 2330 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 - Literature	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.
- Interior Design Majors have a laptop requirement as freshmen, beginning with ART 1300, Interior Design Drafting I. PC laptops are recommended for Interior Design majors though a Mac running Windows OS can work. For more information visit [www.ucmo.edu/cahss/technology/](http://www.ucmo.edu/cahss/technology/).
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, [testingservices@ucmo.edu](mailto:testingservices@ucmo.edu)) for more information.

## International Business Major, B.S.B.A. Degree (46-598)

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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	COMM 1000 Public Speaking or COMM 1050		
ECON 1010 Principles of Macroeconomics (GE)*		3	Fundamentals of Oral Communication Competency (GE)		3
ENGL 1020 Composition I (GE)		3	ECON 1011 Principles of Microeconomics*		3
MATH 1111 College Algebra (GE)*		3	ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE)		3
Modern Language Requirement (GE)**		3	Modern Language Requirement**		3
<b>Semester Total</b>		<b>15</b>	General Education		3
BADM 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>
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
Modern Language Requirement**		3	Modern Language Requirement**		3
General Education - Literature		3	General Education		7
General Education		3	<b>Semester Total</b>		<b>16</b>
<b>Semester Total</b>		<b>15</b>	Note: Complete all BSBA Admission requirements.*		

<b>Junior Year - Fall Semester</b>		<b>Hrs</b>	<b>Junior Year - Spring Semester</b>		<b>Hrs</b>
ECON 3010 Intermediate Macroeconomics		3	CIS 3630 Management Information Systems		3
FIN 3801 Business Statistics II		3	MGT 3325 Business Communications		3
FIN 3850 Principles of Finance		3	MGT 3360 Supply Chain and Operations Management		3
MGT 3315 Management of Organizations		3	MKT 3405 Marketing Policy		3
General Education (not needed if COMM 3340, GEOG 2212, or HIST 1402 is chosen as a Major Elective)# or Free Choice Elective#		3	General Education (not needed if COMM 3340, GEOG 2212, or HIST 1402 is chosen as a Major Elective)# or Free Choice 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>
ECON 4010 International Economics		3	FIN 4820 International Finance		3
Major Electives+++		3	MGT 3345 International Management		1
International Experience Requirement (Study Abroad/ International Study Tour/International Internship)		6	MGT 4357 Organizational Policy & Strategy <sup>10</sup>		3
Free Choice Electives#		3	MKT 4460 International Marketing		3
<b>Semester Total</b>		<b>15</b>	Major Electives+++		3
			Free Choice Elective#		1
			<b>Semester Total</b>		<b>14</b>

## International Business 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 (\*).
- \*\*Students must demonstrate proficiency in a single modern foreign language through the level of Intermediate II. Placement into language courses based on high school curriculum and placement test. Students who begin in a level above Elementary I and who earn a grade of C or higher will be awarded validated credit (CR) for lower level language courses.
- +BADM 1400 (1 hr.) is highly recommended for academic success. BADM 1400 counts as a free choice elective. If chosen, one less hour of free choice electives will be needed later in the plan.
- ++Students must complete 6 hours of major electives from the following list: ANTH 3810, COMM 3340 (will also count in general education - Engagement), GEOG 2212 (will also count in general education - Social/Behavioral Sciences)#, 3200, 3225, HIST 1402 (will also count in general education - History), 4416, 4452, 4463, 4482. If students choose COMM 3340 & GEOG 2212 or COMM 3340 & HIST 1402, 6 hours will overlap with general education requirements. If students choose GEOG 2212 & HIST 1402, an additional class will still be needed in general education to fulfill the constitutions requirement (see catalog for more details).
- #The number of free choice electives needed will depend on choices made in the major. If COMM 3340, GEOG 2212, and/or HIST 1402 are chosen in the major, those courses may also meet a general education requirement, so 3-6 additional free choice hours 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.
- A 2.25 cumulative GPA is required for graduation in this major.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, [testingservices@ucmo.edu](mailto:testingservices@ucmo.edu)) for more information.

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

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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
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 - Mathematics	3	General Education	6
General Education	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>
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 - Literature	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>
REL 3010 Religion and Poverty	3	ANTH 4870 Comparative Cultures (spring only)	3
SOC 3885 Globalization and the Future	3	GEOG 2246 Economic Geography	3
Major Electives in a Content Specialization#	6	Major Elective in a Content Specialization#	3
Modern Language Requirement*	3	Major Elective in a Geographic Specialization***	3
<b>Semester Total</b>	<b>15</b>	General Education	3
		<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>
IS 4950 Senior Seminar (fall only) <sup>10</sup>	3	Free Choice Electives	15
Major Elective in a Content Specialization#	3	<b>Semester Total</b>	<b>15</b>
General Education	6		
Free Choice Electives	3		
<b>Semester Total</b>	<b>15</b>		

**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 2016 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 2016 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 *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.

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

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<b>Freshman Year - Fall Semester</b>		<b>Hrs</b>	<b>Freshman Year - Spring Semester</b>		<b>Hrs</b>
COMM 1000 Public Speaking or COMM 1050 Fundamentals of Oral Communication Competency (GE)	3		CIS 1600 Business Information Management (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	
General Education (ESE 1200 Foundations of Leadership Skills recommended++)	3-4		MATH 1111 College Algebra (GE)*	3	
<b>Semester Total</b>	<b>12-13</b>		General Education	3	
AE 1400 or BADM 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>
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 - Literature	3		General Education	9	
General Education	7		<b>Semester Total</b>	<b>15</b>	
<b>Semester Total</b>	<b>16</b>		Note: Complete all BSBA Admission requirements.*		

<b>Junior Year - Fall Semester</b>		<b>Hrs</b>	<b>Junior Year - Spring Semester</b>		<b>Hrs</b>
FIN 3801 Business Statistics II (IBE Block-below)***	3		FIN 3850 Principles of Finance	3	
CIS 3630 Management Information Systems***	3		HRM 3920 Human Resource Management	3	
MGT 3315 Management of Organizations***	3		MGT 3320 System, Teams, & Organizational Behavior	3	
MKT 3405 Marketing Policy***	3		MGT 3325 Business Communications	3	
IBE Practicum (CIS 3685/MKT 3485/MGT 3385)***	3		MGT 3360 Supply Chain and Operations Management	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>
MGT 3345 International Management+	1-3		MGT 4320 Leading & Managing Teams & Organizations	3	
MGT 4310 Quality and Innovation	3		MGT 4357 Organizational Policy & Strategy <sup>10</sup>	3	
MGT 4325 Management Communication	3		Exhibiting Leadership Major Elective++	3	
MGT 4370 Applications in Supply Chain Mgmt. (required if MGT 3345 was taken for three hours) or a selection from Management Global Perspective Option 2+	3		Free Choice Electives (internship recommended)	6-8	
A second choice from Management Global Perspective Opt. 2 (not required if MGT 3345 was taken for three hours)+	0-3		<b>Semester Total</b>	<b>15-17</b>	
Exhibiting Leadership Major Elective++ or Free Choice Elective (choice will depend on what was taken in first semester)	3				
<b>Semester Total</b>	<b>15-16</b>				

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

- \*Students in this major must complete eight preadmission courses with a grade of C or higher and must obtain a 2.25 cumulative GPA and a 2.25 in these specific courses, for admission to the degree program. These courses are recommended for completion during the freshman and sophomore years. These courses are indicated with an (\*).
- \*\*AE or BADM 1400 (1 hr.) is highly recommended for academic success. AE or BADM 1400 counts as a free choice elective.
- \*\*\*All Management majors must enroll in the IBE Block. This includes the IBE Practicum (MGT 3385, MKT 3485 or CIS 3685) concurrently with the IBE sections of MGT 3315, MKT 3405 and CIS 3630. This is typically done during the fall of the junior year. Prerequisites for the IBE block include: ACCT 2101, CIS 1600, and junior standing.
- +Students are required to have 6-7 credit hours of Management Global Perspective major electives. Students may choose MGT 3345 for one or three credits. MGT 3345 may not be taken for both one hour and three hours. Students who take MGT 3345 for 3 credit hours will take MGT 4370. Students who take MGT 3345 for 1 credit hour will take six hours from Option 2 choices. If Option 1 is selected students will need 1 additional hour of free choice elective. See the 2016 Undergraduate Catalog for more details.
- ++Students must select 6-8 credit hours of Exhibiting Leadership major electives from the following list: HM 3870, MGT 1320, 2350, 3335, 3350, ESE 1200 (this class also counts as an Engagement class in general education), 3720, 3725. MGT 1320 is recommended only for the fall semester for first time freshmen. See the 2016 Undergraduate Catalog 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.
- A 2.25 cumulative GPA is required for graduation in this major.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, [testingservices@ucmo.edu](mailto:testingservices@ucmo.edu)) for more information.

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

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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	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>		
MKT 1400 Orientation to Marketing**	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 - Literature	3	General Education	7
General Education	6	Free Choice Electives	2
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>
Note: Complete all B.S.B.A. Admission requirements.*			
<b>Junior Year - Fall Semester</b>	<b>Hrs</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs</b>
CIS 3630 Management Information Systems#	3	MGT 3325 Business Communications	3
FIN 3801 Business Statistics II	3	MGT 3360 Supply Chain and Operations Management	3
FIN 3850 Principles of Finance	3	MKT 3430 Professional Sales	3
MGT 3315 Management of Organizations#	3	MKT 3480 Consumer Behavior	3
MKT 3405 Marketing Policy#	3	Marketing Major Elective***#	3
<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>
MKT 4460 International Marketing	3	MGT 4357 Organizational Policy & Strategy <sup>10</sup>	3
MKT 4470 Marketing Research	3	MKT 4490 Marketing Management	3
Marketing Major Electives***	6	Marketing Major Electives***	6
Free Choice Electives	3	Free Choice Electives	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>

## 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 3470, MKT 4420, MKT 4430, MKT 4440, MKT 4450, MKT 4454, and MKT 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 *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.



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

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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</b> - Fall Semester	<b>Hrs</b>	<b>Freshman Year</b> - Spring Semester	<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</b> - Fall Semester	<b>Hrs</b>	<b>Sophomore Year</b> - Spring Semester	<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 - Literature	3	General Education	9
General Education	6	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>15</b>		
<b>Junior Year</b> - Fall Semester	<b>Hrs</b>	<b>Junior Year</b> - Spring Semester	<b>Hrs</b>
ACST 3311 Introduction to Mathematical Statistics**	3	MATH 4711 Modern Algebra I**	3
MATH 4710 Algebraic Structures**	3	Major Elective***	3
General Education	9	Free Choice Electives	10
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>16</b>
<b>Senior Year</b> - Fall Semester	<b>Hrs</b>	<b>Senior Year</b> - Spring Semester	<b>Hrs</b>
MATH 4150 Advanced Calculus I**	3	MATH 4233 The Scientific, Historical, & Sociological Impact of Mathematics*** <sup>10</sup>	3
Free Choice Electives	13	Major Elective***	3
<b>Semester Total</b>	<b>16</b>	Free Choice Electives	9
		<b>Semester Total</b>	<b>15</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 2016 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 *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.

## Mathematics Major, Accelerated B.S./M.S. Degrees (43-607)

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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 - Literature	3	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>
ACST 3311 Introduction to Mathematical Statistics**	3	MATH 4711 Modern Algebra I**	3
MATH 4710 Algebraic Structures**	3	Major Elective***	3
General Education	9	Free Choice Electives	10
<b>Semester Total</b>	<b>15</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>
MATH 4150 Advanced Calculus I**	3	MATH 4233 The Scientific, Historical, & Sociological Impact of Mathematics** <sup>10</sup>	3
Free Choice Electives	12	Major Elective***	3
<b>Semester Total</b>	<b>15</b>	Graduate-level Elective in MATH###	3
		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 5210 Topology I	3	MATH 5150 Advanced Calculus II	3
MATH 5711 Modern Algebra II	3	Graduate-level Elective in MATH###	6
Graduate-level Electives in MATH###	6	<b>Semester Total</b>	<b>9</b>
<b>Semester Total</b>	<b>12</b>		

## Mathematics Major, Accelerated B.S./M.S. Degrees - 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 undergraduate Major Electives. See the Undergraduate Catalog/Central Degree Audit 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 15 hours of graduate-level electives in Math. Courses previously completed for undergraduate credit may not be repeated for graduate credit. No more than 12 hours may be at or above the 5900 level. See the Undergraduate Catalog/Central Degree Audit 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.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, [testingservices@ucmo.edu](mailto:testingservices@ucmo.edu)) for more information.

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

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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		Freshman Year - Spring Semester	
CS 1100 Computer Programming I	Hrs 3	ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE)	Hrs 3
ENGL 1020 Composition I (GE)	3	HIST 1350 or 1351 History of the United States (GE)	3
MATH 1151 Calculus & Analytic Geometry I (GE)	5	MATH 1152 Calculus & Analytic Geometry II	5
MATH 1850 Orientation Seminar*	.5	General Education - Managing Information	6
General Education - Science with Laboratory	4	<b>Semester Total</b>	<b>17</b>
<b>Semester Total</b>	<b>15.5</b>		

Sophomore Year - Fall Semester		Sophomore Year - Spring Semester	
EDFL 2100 Introduction to the Teaching Profession	Hrs 3	MATH 2410 Discrete Mathematics	Hrs 3
EDFL 2240 Educational Psychology (GE)	3	MATH 2862 Adv. Perspective on Secondary Geometry & Trig.	3
FLDX 2150 Introductory Field Experience	1	MATH 4851 Prob. & Statistics for Mid./High School Math*	3
EDSP 2100 Education of the Exceptional Child	3	POLS 1510 American Government (GE)	3
MATH 2221 Foundations of Geometry*	3	General Education	3
General Education - Literature	3	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>16</b>	<i>(Successfully complete MoGEA exam by end of this semester)</i>	

Junior Year - Fall Semester		Junior Year - Spring Semester	
EDFL 2250 Introduction to English Language Learners and Culturally Responsive Pedagogy**	Hrs 2	MATH 3710 Linear Algebra	Hrs 3
EDFL 4210 Introduction to Content Area Literacy	2	MATH 3850 Strategies in Teaching Secondary Math*	3
FLDX 3000 Field Experience in the Content Area**	1	EDFL 4212 Literacy in the Disciplines I	2
MATH 2861 Advanced Perspectives on HS Mathematics*	3	EDFL 4972 Literacy in the Disciplines II	2
General Education	6	MATH 4233 The Scientific, Historical, Soc. Impact of Math* <sup>10</sup>	3
<b>Semester Total</b>	<b>14</b>	PSY 4230 Psychology of Adolescence	3
		<b>Semester Total</b>	<b>16</b>

Senior Year - Fall Semester		Senior Year - Spring Semester+	
EDFL 4970 Secondary Teaching & Behavior Management	Hrs 2	FLDX 4595 Student Teaching Secondary I	Hrs 6
FLDX 4970 Field Experience II in the Content Area	1	FLDX 4468 Student Teaching Secondary II	6
MATH 4710 Algebraic Structures*	3	<b>Semester Total</b>	<b>12</b>
MATH 4880 Issues and Methods of Teaching Secondary Math	3		
MATH 4973 Engaging Secondary Mathematics Learners	1		
MATH 4974 Assessment in the Mathematics Classroom	1		
General Education - Managing Information	2		
Free Choice Electives	1.5		
<b>Semester Total</b>	<b>14.5</b>		

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

## 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 is required before enrollment in professional education classes and student teaching. The application for student teaching is due approximately one year in advance.

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

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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> BIOL 1000 The Discipline of Biology BIOL 1110 Principles of Biology or BIOL 1112 Animal Biology* CHEM 1131 General Chemistry I (GE)# ENGL 1020 Composition I (GE) MATH 1111 College Algebra (GE) <b>Semester Total</b>	<b>Hrs</b> 1  3-4 5 3 3 <b>15-16</b>	<b>Freshman Year - Spring Semester</b> BIOL 2512 Cell Biology BIOL 3401 Human Anatomy CHEM 1132 General Chemistry II# ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) General Education <b>Semester Total</b>	<b>Hrs</b> 3 3 5 3 3 <b>17</b>
<b>Sophomore Year - Fall Semester</b> BIOL 3402 Human Physiology# BIOL 3511 Genetics (fall only) CHEM 3341 Organic Chemistry I# General Education - Literature <b>Semester Total</b>	<b>Hrs</b> 5 4 4 3 <b>16</b>	<b>Sophomore Year - Spring Semester</b> ACST 1300 Basic Statistics (GE)** or PSY 4520 Statistics for Behavioral Sciences BIOL 3611 Microbiology BIOL 4514 Molecular Biology General Education <b>Semester Total</b>	<b>Hrs</b>  3 4 3 6 <b>16</b>
<b>Junior Year - Fall Semester</b> BIOL 4002 Life Science Senior Seminar BIOL 4311 Parasitology CHEM 3421 Intermediate Biochemistry General Education <b>Semester Total</b>	<b>Hrs</b> 1 4 3 8 <b>16</b>	<b>Junior Year - Spring Semester</b> BIOL 3413 Immunology BIOL 4516 Hematology/Virology+ General Education (9 hours needed if ACST 1300 is not chosen above) <b>Semester Total</b>	<b>Hrs</b> 3 3  6-9 <b>12-15</b>
<b>Senior Year - Summer Semester</b> BIOL 4015 Clinical Immunohematology BIOL 4016 Clinical Urinalysis <b>Semester Total</b>	<b>Hrs</b> 4 2 <b>6</b>		
<b>Senior Year - Fall Semester</b> BIOL 4017 Clinical Microbiology BIOL 4018 Clinical Immunology <b>Semester Total</b>	<b>Hrs</b> 7 5 <b>12</b>	<b>Senior Year - Spring Semester</b> BIOL 4019 Clinical Biochemistry BIOL 4020 Clinical Hematology BIOL 4021 Clinical Special Topics <sup>10</sup> <b>Semester Total</b>	<b>Hrs</b> 7 4 1 <b>12</b>

## Medical Technology Major, 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 *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.

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

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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	CTE 3060 Tech. Writing (GE)	3
ENGL 1020 Composition I (GE)	3	General Education*	13
POLS 1510 American Government (GE)	3	<b>Semester Total</b>	<b>16</b>
General Education - Mathematics	3		
General Education*	3		
<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>
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	Major Subject Area Electives**	9
EDFL 2240 Educational Psychology (GE)	3	General Education*	3
EDSP 2100 Education of Exceptional Child	3	<b>Semester Total</b>	<b>14</b>
HIST 1350 or 1351 History of the United States (GE)	3	<i>(Successfully complete MoGEA exam by end of this semester)</i>	
General Education - Literature	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>
EDFL 3230 Introduction to Language, Literacy and Literature in the Middle Level Classroom, Block One (fall only)	4	EDFL 3240 Application of Content Area Literacy for Middle Level Learners, Block Two (spring only)	4
EDFL 4130 Fundamentals of Middle Level Education (fall only)	4	EDFL 4135 Middle Level Curriculum & Assessment (spring only)	4
Major Subject Area Electives**	8	PSY 3220 Lifespan Development	3
<b>Semester Total</b>	<b>16</b>	Major Subject Area Electives**	5
		<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>
EDFL 4340 The Engaging Middle Level Classroom (fall only)	4	FLDX 4497 Student Teaching Middle School I <sup>10</sup>	6
Free Choice Electives	12	FLDX 4498 Student Teaching Middle School II	6
<b>Semester Total</b>	<b>16</b>	<b>Semester Total</b>	<b>12</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>			

**Middle School Education Major - Business Education 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 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.
- \*\*This subject area requires 22 hours of major electives. Students should choose BTE courses from the BTE minor or consult with their BTE faculty advisor.
- \*\*\*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 - Engineering & Technology Subject Area, B.S. in Ed. Degree (41-840)

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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>
CMGT 1300 Introduction to Construction Management	3	General Education - science course w/ lab	4
ENGL 1020 Composition I (GE)	3	ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE)	3
POLS 1510 American Government (GE)	3	General Education*	9
General Education - Mathematics	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>
ATM 1010 Contemporary Power Systems	3	CTE 1300 Introduction to Engineering Design	3
EDFL 2100 Introduction to the Teaching Profession	3	CTE 2000 Technology and Society (GE)	3
FLDX 2150 Introductory Field Experience	1	EDFL 2250 Introduction to English Language Learners and Culturally Responsive Pedagogy	2
EDFL 2240 Educational Psychology (GE)	3	ENGT 1510 Introduction to Manufacturing Processes	3
EDSP 2100 Education of Exceptional Child	3	ET 1020 General Electronics	3
HIST 1350 or 1351 History of the United States (GE)	3	<b>Semester Total</b>	<b>14</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>
EDFL 3230 Introduction to Language, Literacy and Literature in the Middle Level Classroom, Block One (fall only)	4	EDFL 3240 Application of Content Area Literacy for Middle Level Learners, Block Two (spring only)	4
EDFL 4130 Fundamentals of Middle Level Education (fall only)	4	EDFL 4135 Middle Level Curriculum & Assessment (spring only)	4
Major Subject Area Elective++	3	PSY 3220 Lifespan Development	3
General Education - Literature	3	Major Subject Area Elective++	3
General Education*	3	<b>Semester Total</b>	<b>14</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>
CTE 4125 Methods of Teaching ETTE+	3	FLDX 4497 Student Teaching Middle School I <sup>10</sup>	6
EDFL 4340 The Engaging Middle Level Classroom (fall only)	4	FLDX 4498 Student Teaching Middle School II	6
Free Choice Electives	9	<b>Semester Total</b>	<b>12</b>
<b>Semester Total</b>	<b>16</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>			

## Middle School Education Major - Engineering and Technology 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 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.
- \*\*The courses listed for this semester constitute the professional education (student teaching) block. The student should not take any other courses during this semester.
- +This course has a prerequisite/corequisite of CTE 4145 not required in this program. See the department for enrollment assistance.
- ++This subject area requires six hours of major electives. Students should choose CTE courses from the CTE Certificate program or consult with their ETTE faculty 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.
- 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 - General Science Subject Area, B.S. in Ed. Degree (41-840)**

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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	ENGL 1030 <i>Composition II or CTE 3060 Tech. Writing (GE)</i>	3
POLS 1510 <i>American Government (GE)</i>	3	General Education BIOL, CHEM, EASC, PHYS course w/ lab	4
STCH 1003 <i>Great Concepts in Science (GE)</i>	3	General Education*	8
General Education - Mathematics	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>
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	Any BIOL, CHEM, EASC, PHYS Courses	6
EDSP 2100 <i>Education of Exceptional Child</i>	3	General Education*	3
HIST 1350 or 1351 <i>History of the United States (GE)</i>	3	<b>Semester Total</b>	<b>14</b>
General Education - Literature	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	4
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>	4
EDFL 4130 <i>Fundamentals of Middle Level Education (fall only)</i>	4	EDFL 4135 <i>Middle Level Curriculum &amp; Assessment (spring only)</i>	4
Free Choice Electives	4	PSY 3220 <i>Lifespan Development</i>	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>
EDFL 4340 <i>The Engaging Middle Level Classroom (fall only)</i>	4	FLDX 4497 <i>Student Teaching Middle School I<sup>10</sup></i>	6
STCH 4050 <i>Science Teaching Methods</i>	3	FLDX 4498 <i>Student Teaching Middle School II</i>	6
Free Choice Electives	10	<b>Semester Total</b>	<b>12</b>
<b>Semester Total</b>	<b>17</b>		

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

**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 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.
- \*\*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 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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	ENGL 1030 <i>Composition II (GE)</i>	3
POLS 1510 <i>American Government (GE)</i>	3	HIST 1350 or 1351 <i>History of the United States (GE)</i>	3
<i>General Education - Mathematics</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 <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	ENGL 2830 <i>Literature for Adolescents (spring only)</i>	3
EDFL 2240 <i>Educational Psychology (GE)</i>	3	<i>Language Arts Electives in ENGL**</i>	4
EDSP 2100 <i>Education of Exceptional Child</i>	3	<i>General Education*</i>	3
ENGL 2010, 2020, 2200, 2205, 2210, 2215, or 2220 (GE)	3	<i>Free Choice Elective</i>	3
<i>General Education*</i>	3	<b>Semester Total</b>	<b>15</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>
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>	4
EDFL 4130 <i>Fundamentals of Middle Level Education (fall only)</i>	4	EDFL 4135 <i>Middle Level Curriculum &amp; Assessment (spring only)</i>	4
<i>Free Choice Electives</i>	8	EDFL 4230 <i>Resp. to Intervent. for MS English LA: Block Three</i>	4
<b>Semester Total</b>	<b>16</b>	PSY 3220 <i>Lifespan Development</i>	3
		<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>
EDFL 4235 <i>Methods of Teaching Middle Level English LA</i>	3	FLDX 4497 <i>Student Teaching Middle School I<sup>10</sup></i>	6
EDFL 4240 <i>Integrated English LA Curr. &amp; Assess. for Middle Level Learners: Block Four</i>	4	FLDX 4498 <i>Student Teaching Middle School II</i>	6
EDFL 4340 <i>The Engaging Middle Level Classroom (fall only)</i>	4	<b>Semester Total</b>	<b>12</b>
<i>Free Choice Elective</i>	5		
<b>Semester Total</b>	<b>16</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>			

**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 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.
- \*\*There are currently no 4 hour ENGL classes. There are some 1 and 2 hour ENGL courses. 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/>.
- 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 - Math Subject Area, B.S. in Ed. Degree (41-840)**

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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	ENGL 1030 <i>Composition II or CTE 3060 Tech. Writing (GE)</i>	3
MATH 1620 <i>Contemporary Mathematics (GE)*</i>	3	HIST 1350 or 1351 <i>History of the United States (GE)</i>	3
POLS 1510 <i>American Government (GE)</i>	3	MATH 1820 <i>Introduction to Mathematical Modeling (GE)</i>	3
General Education**	6	MATH 2822 <i>Elements of Geometry*</i>	3
<b>Semester Total</b>	<b>15</b>	General Education Science with a Laboratory	4
		<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>
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	MATH 2823 <i>Introduction to Infinite Processes*#</i>	5
EDFL 2240 <i>Educational Psychology (GE)</i>	3	General Education**	8
EDSP 2100 <i>Education of Exceptional Child</i>	3	<b>Semester Total</b>	<b>15</b>
MATH 2821 <i>Elements of Algebra*</i>	3	<i>(Successfully complete MoGEA exam by end of this semester)</i>	
General Education - Literature	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>
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>	4
EDFL 4130 <i>Fundamentals of Middle Level Education (fall only)</i>	4	EDFL 4135 <i>Middle Level Curriculum &amp; Assessment (spring only)</i>	4
MATH 3800 <i>Teaching and Learning Numbers*</i>	3	PSY 3220 <i>Lifespan Development</i>	3
MATH 3802 <i>Concepts and Methods Middle School Math*</i>	2	MATH 4851 <i>Probability and Statistics Mid/HS Math*</i>	3
Free Choice Elective	3	<b>Semester Total</b>	<b>14</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>
EDFL 4340 <i>The Engaging Middle Level Classroom (fall only)</i>	4	FLDX 4497 <i>Student Teaching Middle School I<sup>10</sup></i>	6
MATH 3840 <i>Strategies for Teaching Middle School Math*</i>	3	FLDX 4498 <i>Student Teaching Middle School II</i>	6
Free Choice Electives	9	<b>Semester Total</b>	<b>12</b>
<b>Semester Total</b>	<b>16</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>			

**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 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.
- #If MATH 2823 is not available, students should take MATH 2824 (3 hours) and MATH 2825 (2 hours). MATH 2824 must be taken before MATH 2825.
- ##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 - Social Science Subject Area, B.S. in Ed. Degree (41-840)**

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<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	ECON 1010 Principles of Macroeconomics	3
POLS 1510 <i>American Government (GE)</i>	3	ENGL 1030 <i>Composition II or CTE 3060 Tech. Writing (GE)</i>	3
General Education - Mathematics	3	HIST 1350 History of the United States to 1877 (GE)	3
General Education*	6	General Education - Managing Information	2-3
<b>Semester Total</b>	<b>15</b>	General Education Science w/lab	4
		<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>
EDFL 2100 Introduction to the Teaching Profession	3	ECON 1011 Principles of Microeconomics	3
FLDX 2150 Introductory Field Experience	1	EDFL 2250 Introduction to English Language Learners and Culturally Responsive Pedagogy	2
EDFL 2240 Educational Psychology (GE)	3	HIST 1402 History of the Modern World	3
EDSP 2100 Education of Exceptional Child	3	General Education*	6
HIST 1401 History of the Early Modern World	3	<b>Semester Total</b>	<b>14</b>
General Education - Literature	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>
EDFL 3230 Introduction to Language, Literacy and Literature in the Middle Level Classroom, Block One (fall only)	4	EDFL 3240 Application of Content Area Literacy for Middle Level Learners, Block Two (spring only)	4
EDFL 4130 Fundamentals of Middle Level Education (fall only)	4	EDFL 4135 Middle Level Curriculum & Assessment (spring only)	4
HIST 1351 History of the United States from 1877	3	GEOG 2212 World Geography	3
General Education*	3	PSY 3220 Lifespan Development	3
Free Choice Elective	3	<b>Semester Total</b>	<b>14</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>
EDFL 4340 The Engaging Middle Level Classroom (fall only)	4	FLDX 4497 Student Teaching Middle School <sup>10</sup>	6
SOSC 4074 Methods of Teaching Social Studies	3	FLDX 4498 Student Teaching Middle School II	6
Free Choice Electives	10	<b>Semester Total</b>	<b>12</b>
<b>Semester Total</b>	<b>17</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>			

**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 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.
- \*\*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 - Speech/Theatre Subject Area, B.S. in Ed. Degree (41-840)**

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<b>Freshman Year - Fall Semester</b>	<b>Hrs</b>	<b>Freshman Year - Spring Semester</b>	<b>Hrs</b>
COMM 1000 Public Speaking (GE)	3	ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE)	3
ENGL 1020 Composition I (GE)	3	General Education*	12
POLS 1510 American Government (GE)	3	<b>Semester Total</b>	<b>15</b>
General Education - Mathematics	3		
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 Introduction to the Teaching Profession	3	COMM 2330 Communication in Small Groups/Teams	3
FLDX 2150 Introductory Field Experience	1	EDFL 2250 Introduction to English Language Learners and Culturally Responsive Pedagogy	2
EDFL 2240 Educational Psychology (GE)	3	THEA 1500 Acting	3
EDSP 2100 Education of Exceptional Child	3	THEA 1600 Stagecraft	3
HIST 1350 or 1351 History of the United States (GE)	3	THEA 2400 Discovering Theatre (GE)	3
General Education - Literature	3	<b>Semester Total</b>	<b>14</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>
EDFL 3230 Introduction to Language, Literacy and Literature in the Middle Level Classroom, Block One (fall only)	4	EDFL 3240 Application of Content Area Literacy for Middle Level Learners, Block Two (spring only)	4
EDFL 4130 Fundamentals of Middle Level Education (fall only)	4	EDFL 4135 Middle Level Curriculum & Assessment (spring only)	4
Subject Area Electives from COMM or THEA	6	PSY 3220 Lifespan Development	3
<b>Semester Total</b>	<b>14</b>	Subject Area Elective from COMM or THEA	6
		<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>
EDFL 4340 The Engaging Middle Level Classroom (fall only)	4	FLDX 4497 Student Teaching Middle School I <sup>10</sup>	6
Free Choice Electives	13	FLDX 4498 Student Teaching Middle School II	6
<b>Semester Total</b>	<b>17</b>	<b>Semester Total</b>	<b>12</b>

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

**Middle School Education Major - Speech/Theatre 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 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.
- \*\*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.

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

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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.

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

**Modern Languages Major (Option 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 *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.

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

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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 - Mathematics	3	General Education	9
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>
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 - Literature	3	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>
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>		

<b>Summer between Junior &amp; Senior Year -</b>	<b>Hrs</b>
Summer Semester	
MKT 3435 Internship in Marketing	6
<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>
Major Marketing Concentration Elective	3	GISL 4244 Cross-Cultural Cinema <sup>10</sup>	3
MKT 3480 Consumer Behavior	3	MKT 4460 International Marketing	3
4000 level course (FREN, GER, or SPAN)*	3	ML 4050 Language in the Professions/Translation	3
Free Choice Elective (validated credit)	3	Free Choice Electives (validated language credit)	3
<b>Semester Total</b>	<b>12</b>	<b>Semester Total</b>	<b>12</b>

**Modern Languages Major (Option 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 *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.

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

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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>
CJ 1000 Introduction to Criminal Justice (GE)	3	CJ 2300 Criminal Law and Procedure	3
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 - Mathematics	3	General Education	6
General Education	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>
CJ 3006 Corrections	3	CJ 3010 Policing a Democratic Society	3
2000/3000 level course (FREN, GER, or SPAN)*	3	3000 level courses (FREN, GER, or SPAN)*	6
3000 level course (FREN, GER, or SPAN)*	3	General Education	6
General Education - Literature	3	<b>Semester Total</b>	<b>15</b>
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>
CJ 3020 Comparative Justice Systems	3	CJ 4503 Dynamics of Criminal Behavior	3
3000 level course (FREN, GER, or SPAN)*	3	CJ Elective	3
3000/4000 level course (FREN, GER, or SPAN)*	3	4000 level courses (FREN, GER, or SPAN)*	6
General Education	6	Free Choice Elective	3
<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>		
CJ 4602 Internship in Criminal Justice	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>
CJ Electives	6	GISL 4244 Cross-Cultural Cinema <sup>10</sup>	3
4000 level course (FREN, GER, or SPAN)*	3	ML 4050 Language in the Professions/Translation	3
General Education	3	Free Choice Electives (validated language credit)	6
Free Choice Elective	3	<b>Semester Total</b>	<b>12</b>
<b>Semester Total</b>	<b>15</b>		

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

- \*All 33 hours of the language requirement must be in the same modern foreign language (French, German, or Spanish).
- +Enrollment in Intermediate I requires completion of 6 hours of credit for Elementary Language I and Elementary Language II or equivalent proficiency. If you received college credit for these classes while in high school (dual credit), these credits will be applied to the major sequence. Students who have taken high school language courses (French, German or Spanish) may enroll beyond the Elementary I level, and may apply for Validated Credit for the class(es) skipped. A student completing Elementary II with a grade of C or higher will earn three credit hours for Elementary I at no tuition charge; a student completing Intermediate I with a grade of C or higher will earn six credit hours for Elementary I and II at no tuition charge.
- \*\*AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- <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 *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.

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

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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
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 - Mathematics	3	General Education	9
General Education	3	<b>Semester Total</b>	<b>16</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>
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 - Literature	3
General Education (COMM 1000 or 1050 recommended)#	6	General Education	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>13</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 (Option 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 *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.

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

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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
Intermediate I (FREN, GER, or SPAN)*+	3	Intermediate II (FREN, GER, or SPAN)*	3
General Education - Mathematics	3	General Education	9
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>
PR 2620 Principles of Public Relations	3	PR 3610 Writing & Editing for Public Relations	3
2000/3000 level course (FREN, GER, or SPAN)*	3	3000 level courses (FREN, GER, or SPAN)*	6
3000 level course (FREN, GER, or SPAN)*	3	General Education	6
General Education - Literature	3	<b>Semester Total</b>	<b>15</b>
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>
PR 3620 Strategic Planning for Public Relations	3	COMM 3010 Interpersonal Communication	3
3000 level course (FREN, GER, or SPAN)*	3	PR 4680 Advanced Public Relations Writing	3
3000/4000 level course (FREN, GER, or SPAN)*	3	4000 level courses (FREN, GER, or SPAN)*	6
General Education	3	Free Choice Elective (PR 3605 recommended to meet prerequisite for PR 4670)++	3
Free Choice Elective	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>		
PR 4605 Public Relations Internship	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>
COMM 3100 Communication Research Methods	3	GISL 4244 Cross-Cultural Cinema <sup>10</sup>	3
COMM 3340 Intercultural Communication (GE)	3	ML 4050 Language in the Professions/Translation	3
PR 4670 Strategic Crisis Communication for Public Relations+++	3	4000 level courses (FREN, GER, or SPAN)*	3
POLS 4520 Principles of International Development	3	Free Choice Elective	3
Free Choice Elective	3	<b>Semester Total</b>	<b>12</b>
<b>Semester Total</b>	<b>15</b>		

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

- \*All 33 hours of the language requirement must be in the same modern foreign language (French, German, or Spanish).
- +Enrollment in Intermediate I requires completion of 6 hours of credit for Elementary Language I and Elementary Language II or equivalent proficiency. If you received college credit for these classes while in high school (dual credit), these credits will be applied to the major sequence. Students who have taken high school language courses (French, German or Spanish) may enroll beyond the Elementary I level, and may apply for Validated Credit for the class(es) skipped. A student completing Elementary II with a grade of C or higher will earn three credit hours for Elementary I at no tuition charge; a student completing Intermediate I with a grade of C or higher will earn six credit hours for Elementary I and II at no tuition charge.
- \*\*AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- ++PR 3605 is a prerequisite for enrollment into PR 4670 but is not a required course in this major. If PR 3605 is not chosen as a free choice elective, see the Department of Economics, Finance, and Marketing for assistance with enrollment in PR 4670.
- <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 *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.



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

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

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

- \*All 33 hours of the language requirement must be in the same modern foreign language (French, German, or Spanish).
- +Enrollment in Intermediate I requires completion of 6 hours of credit for Elementary Language I and Elementary Language II or equivalent proficiency. If you received college credit for these classes while in high school (dual credit), these credits will be applied to the major sequence. Students who have taken high school language courses (French, German or Spanish) may enroll beyond the Elementary I level, and may apply for Validated Credit for the class(es) skipped. A student completing Elementary II with a grade of C or higher will earn three credit hours for Elementary I at no tuition charge; a student completing Intermediate I with a grade of C or higher will earn six credit hours for Elementary I and II at no tuition charge.
- #These four courses must be taken as a block, see your academic advisor for enrollment.
- \*\* Students pursuing the Education Concentration must complete a biology prefix.
- \*\*\*AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- <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.

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

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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>	General Education - Mathematics	3
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 - Literature	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 *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.

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

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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 2221 Introduction to Music Literature I*		2	MUS 1121 Aural Training I*		1
Major Instrument, 1000 Level		2	MUS 1225 Music of the World's Cultures (GE)		3
Major Large Instrument Ensemble (Piano Class I)**		1	MUS 2222 Introduction to Music Literature II*		2
General Education - Mathematics		(1)	Major Instrument, 1000 Level		2
		3	Major Large Instrument Ensemble (Piano Class II)**		1
<b>Semester Total</b>		<b>14</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>
MUS 1000 Recital Attendance		0	MUS 1000 Recital Attendance		0
MUS 1112 Theory II*		3	MUS 2111 Theory III*		3
MUS 1122 Aural Training II*		1	MUS 2121 Aural Training III*		1
MUS 2300 Fundamentals of Conducting* Instrumental Music Elective		3	MUS Electives		1
Major Instrument, 1000 Level		1	Instrumental Music Elective		1
Major Large Instrument Ensemble (Piano Class III)**		2	Major Instrument, 1000 Level		2
General Education - Literature		1	Major Large Instrument Ensemble (Piano Class IV)**		1
General Education		(1)	General Education		(1)
		3	<b>Semester Total</b>		<b>6</b>
		3			<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 3212 Music History 1750-Present (GE)*		3
MUS 3211 Music History to 1750*		3	MUS Electives		3
MUS Required Elective***		3	Major Instrument, 3000 Level		3
Major Instrument, 3000 Level		3	Major Large Instrument Ensemble		1
Major Large Instrument Ensemble		1	General Education		3
General Education		3	<b>Semester Total</b>		<b>14</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>
MUS 1000 Recital Attendance		0	MUS 1000 Recital Attendance		0
MUS 4125 Form & Analysis (only offered Fall semesters of odd numbered years)		3	MUS 4060 Senior Recital <sup>10</sup>		2
MUS 4240, 4245, 4250, or 4255 Instrumental Lit. & Ped.		2	Major Instrument, 3000 Level		3
MUS Electives		3	MUS Electives		3
Major Instrument, 3000 Level		3	Small Instrumental Ensemble		1
Small Instrumental Ensemble		1	General Education (only 3 hours of General Education are needed here if the other 3 hours were taken in the first semester instead of MUS 1100)		3-6
General Education		3	Free Choice Elective		1
<b>Semester Total</b>		<b>15</b>	<b>Semester Total</b>		<b>13-15</b>

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

- +MUS 1100 with a grade of C or better may be required as a prerequisite to MUS 1111 if the student does not pass this course by the admission examination.
- \*This course is only offered during the semester listed.
- \*\*Keyboard competency is required for this degree program. Private piano lessons may be required to reach competency.
- \*\*\*For the MUS Required Elective choose among the following three courses: MUS 4101 Counterpoint I (offered fall semester of even numbered years only), MUS 4115 Instrumentation (offered spring semester), or MUS 4185 Jazz-Commercial Arranging (offered spring semester of odd numbered years only).
- <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 *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.

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

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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>
ENGL 1020 Composition I (GE)	3
MUS 1000 Recital Attendance	0
MUS 1085 Jazz-Rock Combo	1
MUS 1100 Fundamentals of Music+* or General Education	3
MUS 1400 Computer Music Notation	.5
MUS 1450 Audio and Acoustics (GE)	3
Major Large Jazz Ensemble	1
Major Instrument, 1000 Level (Piano Class I)**	2
General Education - Mathematics	(1)
<b>Semester Total</b>	<b>16.5</b>

<b>Freshman Year - Spring Semester</b>	<b>Hrs</b>
ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE)	3
MUS 1000 Recital Attendance	0
MUS 1111 Theory I*	3
MUS 1121 Aural Training I*	1
Major Instrument, 1000 Level	2
Major Large Jazz Ensemble	1
Major Large Non-Jazz Ensemble (Piano Class II)**	1
General Education	(1)
<b>Semester Total</b>	<b>17</b>

<b>Sophomore Year - Fall Semester</b>	<b>Hrs</b>
MUS 1000 Recital Attendance	0
MUS 1112 Theory II*	3
MUS 1122 Aural Training II*	1
MUS 1225 Music of the World's Cultures (GE)	3
MUS 2180 Jazz Improvisation I*	2
MUS 2300 Fundamentals of Conducting*	3
Major Large Jazz Ensemble	1
Major Instrument, 1000 Level	2
Major Large Non-Jazz Ensemble (Piano Class III)**	1
<b>Semester Total</b>	<b>16</b>

<b>Sophomore Year - Spring Semester</b>	<b>Hrs</b>
MUS 1000 Recital Attendance	0
MUS 1281 History & Development of Jazz (GE)*	3
MUS 1410 or 1420 or 1430 or 1440	.5
MUS 2111 Theory III*	3
MUS 2121 Aural Training III*	1
MUS 2141 Composition I	3
MUS 2181 Jazz Improvisation II*	2
Major Large Jazz Ensemble	1
Major Instrument, 1000 Level (Piano Class IV)**	2
<b>Semester Total</b>	<b>15.5</b>

<b>Junior Year - Fall Semester</b>	<b>Hrs</b>
MUS 1000 Recital Attendance	0
MUS 2112 Theory IV*	3
MUS 2122 Aural Training IV*	1
MUS 3211 Music History to 1750*	3
MUS 4181 Advanced Jazz Improvisation* or MUS 4186 Advanced Jazz-Commercial Arranging***	2
Major Large Jazz Ensemble	1
Major Instrument, 3000 Level	3
General Education - Literature	3
<b>Semester Total</b>	<b>16</b>

<b>Junior Year - Spring Semester</b>	<b>Hrs</b>
MUS 1000 Recital Attendance	0
MUS 1085 Jazz-Rock Combo	1
MUS 3060 Junior Recital	1
MUS 3212 Music History 1750-Present (GE)*	3
MUS 4185 Jazz-Commercial Arranging (only offered Spring semesters of odd numbered years)	3
Major Large Jazz Ensemble	1
Major Instrument, 3000 Level	3
General Education	3
<b>Semester Total</b>	<b>15</b>

<b>Senior Year - Fall Semester</b>	<b>Hrs</b>
MUS 1000 Recital Attendance	0
MUS 4125 Form & Analysis (only offered Fall semesters of odd numbered years)	3
MUS 4181 Advanced Jazz Improvisation* or MUS 4186 Advanced Jazz-Commercial Arranging***	2
MUS electives	2
Major Instrument, 3000 Level	3
General Education	3
<b>Semester Total</b>	<b>13</b>

<b>Senior Year - Spring Semester</b>	<b>Hrs</b>
MUS 1000 Recital Attendance	0
MUS 4060 Senior Recital <sup>10</sup>	2
MUS 4181 Advanced Jazz Improvisation (fall only) or MUS 4186 Advanced Jazz-Commercial Arranging***	2
Major Instrument, 3000 Level	3
General Education (6 hours of General Education are needed here if the other 3 hours were taken in the first semester instead of MUS 1100)	3-6
Free Choice Elective	0-1
<b>Semester Total</b>	<b>11-13</b>

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

- +MUS 1100 with a grade of C or better may be required as a prerequisite to MUS 1111 if the student does not pass this course by the admission examination.
- \*This course is only offered during the semester listed.
- \*\*Keyboard competency is required for this degree program. Private piano lessons may be required to reach competency.
- \*\*\*This course is only offered as needed by the department. See department for projected course offerings.
- <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 *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.

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

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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 (if MUS 1100 isn't needed)		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
Electronics or Computer Programming Elective			MUS 2420 Technology Practicum		0
(Choose from CS 1100, ET 1010, or ET 1020)		3-4	Major Instrument or Voice, 1000 Level		1
Major Instrument or Voice, 1000 Level		1	Major Large Instrumental or Vocal Ensemble (Piano Class II)***++		1
Major Large Instrumental or Vocal Ensemble (Piano Class II)***++		1	General Education - Mathematics		3
		(1)	<b>Semester Total</b>		<b>15-16</b>
<b>Semester Total</b>		<b>14.5-16.5</b>			

<b>Sophomore Year - Fall Semester</b>		<b>Hrs</b>	<b>Sophomore Year - Spring Semester</b>		<b>Hrs</b>
ECON 1010 Principles of Macroeconomics (GE)		3	MUS 1000 Recital Attendance		0
MUS 1000 Recital Attendance		0	MUS 2111 Theory III*		3
MUS 1112 Theory II*		3	MUS 2121 Aural Training III*		1
MUS 1122 Aural Training II*		1	MUS 4410 Electronic Music Production Techniques		3
MUS 2400 Sound Reinforcement & Music Production*		3	MUS 4420 Advanced Music Technology Practicum		0
MUS 2420 Technology Practicum		0	Major Instrument or Voice, 1000 Level		1
Major Instrument or Voice, 1000 Level		1	Major Large Instrumental or Vocal Ensemble (Piano Class IV)***++		1
Major Large Instrumental or Vocal Ensemble (Piano Class III)***++		1	General Education - Literature		3
General Education (not needed if a general education class is taken in the first semester instead of MUS 1100)		(1)	<b>Semester Total</b>		<b>12-13</b>
		0-3			
<b>Semester Total</b>		<b>12-16</b>			

<b>Junior Year - Fall Semester</b>		<b>Hrs</b>	<b>Junior Year - Spring Semester</b>		<b>Hrs</b>
MUS 1000 Recital Attendance		0	COMM 3425 Audio for Digital Cinema		3
MUS 1225 Music of the World's Cultures (GE)		3	MUS 1000 Recital Attendance		0
MUS 2112 Theory IV*		3	MUS 3212 Music History 1750-Present (GE)*		3
MUS 2122 Aural Training IV*		1	MUS 4115 Instrumentation*		3
MUS 3211 Music History to 1750*		3	MUS 4190 Electronic Music Composition		3
MUS 4195 Max & MSP		3	Approved Elective in Music++		2
MUS 4400 Audio for X*		3	<b>Semester Total</b>		<b>14</b>
MUS 4420 Advanced Music Technology Practicum		0			
<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>
MUS 1000 Recital Attendance		0	MUS 4430 Seminar in Music Technology <sup>10</sup>		2
MUS 4040 Music Business Practices		3	Music Academic Studies Elective#		3
MUS 4430 Seminar in Music Technology		2	Approved Electives in Music++		2
Music Academic Studies Elective#		3	General Education# (If MUS 1220 or 1281 are chosen in the major, only 6 hours are required here)		6-9
Approved Elective in Music++ (depends on number of piano class credits taken)		0-4	<b>Semester Total</b>		<b>12-15</b>
General Education		6			
<b>Semester Total</b>		<b>14-18</b>	<b>After Junior or Senior Year - Summer Semester</b>		<b>Hrs</b>
			MUS 4450 Internship in Music Technology		6
			<b>Semester Total</b>		<b>6</b>

### 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 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.
- <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 *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.

**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 - Mathematics		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 - Literature		3	<b>Semester Total</b>		<b>15</b>
General Education		3			
<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 *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.

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

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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 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 - Mathematics		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 4511 Piano Pedagogy I - The Beginner (only offered Fall semesters of odd numbered years)		3	MUS 4512 Piano Pedagogy II - The Intermediate Student (only offered Spring semesters of even numbered years)		3
Major Large Instrument or Vocal Ensemble		1	Major Large Instrument or Vocal Ensemble		1
General Education - Literature		3	General Education		6
General Education		3	<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 2112 Theory IV*		3	MUS 1095 Keyboard Ensemble or MUS 3095 Piano Accompanying Practicum		1
MUS 2122 Aural Training IV*		1	MUS 3510 Piano II		3
MUS 2515 Piano Accompanying		2	MUS 4202 Piano Literature Romantic Era - Present*		2
MUS 3510 Piano II		1.5	MUS 4514 Piano Pedagogy IV - Seminar*		3
MUS 4101 Counterpoint I (only offered Fall semesters of even numbered years)		3	MUS 4515 Practice Teaching in Piano*		3
MUS 4201 Piano Literature through Beethoven (only offered Fall semesters of even numbered years)		2	General Education		6
MUS 4513 Piano Pedagogy III - The Advanced Student (only offered Fall semesters of even numbered years)		3	<b>Semester Total</b>		<b>18</b>
<b>Semester Total</b>		<b>15.5</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 1095 Keyboard Ensemble or MUS 3095 Piano Accompanying Practicum		1	MUS 3212 Music History 1750-Present (GE) <sup>7</sup>		3
MUS 2300 Fundamentals of Conducting*		3	MUS 3510 Piano II		3
MUS 3211 Music History to 1750*		3	MUS 4060 Senior Recital <sup>10</sup>		2
MUS 3510 Piano II		3	MUS 4515 Practice Teaching in Piano*		3
MUS 4125 Form & Analysis (only offered Fall semesters of odd numbered years)		3	General Education		3
General Education (0 hours of General Ed. are needed here if 3 hours were taken in the first semester instead of MUS 1100) 0-3			<b>Semester Total</b>		<b>14</b>
<b>Semester Total</b>		<b>13-16</b>			

**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 *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.

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

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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
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 (1)	MUS 2222 Introduction to Music Literature II**		2
			Major Large Vocal Ensemble (Piano Class II)***		1 (1)
<b>Semester Total</b>		<b>14-15</b>	<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>
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 (1)
Major Large Vocal Ensemble (Piano Class III)***		1 (1)	General Education		6
General Education - Literature		3	General Education		6
General Education - Mathematics		3	<b>Semester Total</b>		<b>15-16</b>
<b>Semester Total</b>		<b>17-18</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 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>Hrs</b>	<b>Senior Year - Spring Semester</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 *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.



## Music Education Major (Option 1: Instrumental - even start year), B.M.E. Degree (45-440)

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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
HIST 1350 or HIST 1351 History of the United States (GE)		3	MUS 1000 Recital Attendance		0
MUS 1000 Recital Attendance		0	MUS 1111 Theory I*		3
MUS 1100 Fundamentals of Music+* or General Education		3	MUS 1121 Aural Training I*		1
Major Instrument, 1000 Level		1	MUS 1390 Introduction to Music Education*		2
Major Large Instrumental Ensemble (Piano)		1 (1)	Instrument Techniques Class**		1
<i>General Education - Mathematics</i>		3	Major Instrument, 1000 Level		1
<b>Semester Total</b>		<b>14-15</b>	Major Large Instrumental Ensemble (Piano)		(1)
			<i>General Education - Science with Laboratory</i>		4
			<b>Semester Total</b>		<b>16-17</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 2240 Educational Psychology		3
FLDX 2150 Introductory Field Experience		1	EDSP 2100 Education of the Exceptional Child		3
MUS 1000 Recital Attendance		0	MUS 1000 Recital Attendance		0
MUS 1112 Theory II*		3	MUS 2111 Theory III*		3
MUS 1122 Aural Training II*		1	MUS 2121 Aural Training III*		1
MUS 1400 Computer Music Notation		.5	<i>POLS 1510 American Government (GE)</i>		3
MUS 1450 Audio and Acoustics (GE)		3	Major Large Instrumental Ensemble		1
MUS 2300 Fundamentals of Conducting*		3	Major Instrument, 1000 Level (Piano)		1 (1)
Instrument Techniques Class**		1	General Education - Communication		3
Major Instrument, 1000 Level		1	<b>Semester Total</b>		<b>18-19</b>
Major Large Instrumental Ensemble (Piano)		1 (1)	<i>(Successfully complete MoGEA exam by end of this semester)</i>		
<b>Semester Total</b>		<b>17.5-18.5</b>			
<b>Junior Year - Fall Semester</b>		<b>Hrs</b>	<b>Junior Year - Spring Semester</b>		<b>Hrs</b>
EDFL 2250 Introduction to English Language Learners and Culturally Responsive Pedagogy		2	FLDX 3000 Field Experience in the Content Area#		1
MUS 1000 Recital Attendance		0	MUS 1000 Recital Attendance		0
MUS 1410, 1420, 1430, or 1440 (choose one)		.5	MUS 1225 Music of the World's Cultures (GE)		3
MUS 2112 Theory IV*		3	MUS 3212 Music History 1750-Present (GE)*		3
MUS 2122 Aural Training IV*		1	MUS 3306 Methods of Teaching Instrumental Music*		3
MUS 3211 Music History to 1750*		3	MUS 3320 Instrumental Conducting & Rehearsal Techniques*#3		3
MUS 3305 Methods of Teaching Elemen. School Music***		2	MUS 4115 Instrumentation*		3
MUS 3308 Marching Band Techniques*		1	Instrument Techniques Class**		1
Instrument Techniques Class**		1	Instrument Techniques Class**		1
Major Instrument, 3000 Level		1.5	Major Instrument, 3000 Level		1.5
Major Large Instrumental Ensemble		1	Major Large Instrumental Ensemble		1
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>20.5</b>
<b>Semester Total</b>		<b>16-19</b>	<i>(#These courses must be taken concurrently.)</i>		
<b>Senior Year - Fall Semester</b>		<b>Hrs</b>	<b>Senior Year - Spring Semester</b>		<b>Hrs</b>
EDFL 4210 Introduction to Content Area Literacy		2	FLDX 4468 Student Teaching Secondary II		4
EDFL 4970 Secondary Teaching & Behavioral Management		2	FLDX 4495 Student Teaching Elementary I		5
FLDX 4970 Field Experience II in the Content Area		1	MUS 4310 Methods of Teaching Music <sup>10</sup>		2
MUS 1000 Recital Attendance		0	MUS 4350 Secondary Field Experience II		1
MUS 4381 Jazz Pedagogy* (fall only)		2	<b>Semester Total</b>		<b>12</b>
PSY 4230 Psychology of Adolescence (GE)		3	<i>(All non-student teaching coursework and tests must be successfully completed before this semester for enrollment in student teaching.)</i>		
Instrument Techniques Class**		1			
Major Instrument, 3000 Level		1.5			
Major Large Instrumental Ensemble		1			
General Education - Literature and Managing Information		5			
<b>Semester Total</b>		<b>18.5</b>			

## Music Edu. Major (Option 1: Instrumental - even 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 (Option 2: Vocal - even year start plan), B.M.E Degree (45-441)

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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	0	ENGL 1030 <i>Composition II or CTE 3060 Tech. Writing (GE)</i>	3	3
MUS 1000 Recital Attendance	0	3	HIST 1350 or 1351 History of the United States (GE)	3	3
MUS 1100 Fundamentals of Music+* or General Education	3	0	MUS 1000 Recital Attendance	0	0
MUS 1610 Voice I	1	3	MUS 1111 Theory I*	3	3
<b>POLS 1510 <i>American Government (GE)</i></b>	3	1	MUS 1121 Aural Training I*	1	1
Major Large Vocal Ensemble	1	1	MUS 1390 Introduction to Music Education*	2	2
(Piano)	(1)	(1)	MUS 1610 Voice I	1	1
<b>General Education - Science with Laboratory</b>	4	4	Major Large Vocal Ensemble	1	1
<b>Semester Total</b>	<b>15-16</b>		(Piano)	(1)	(1)
			<b>General Education - Mathematics</b>	3	3
			<b>Semester Total</b>	<b>17-18</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	3	EDFL 2240 Educational Psychology	3	3
FLDX 2150 Introductory Field Experience	1	3	EDSP 2100 Education of the Exceptional Child	3	3
MUS 1000 Recital Attendance	0	0	MUS 1000 Recital Attendance	0	0
MUS 1112 Theory II*	3	3	MUS 1410, 1420, 1430, or 1440 (choose one)	.5	.5
MUS 1122 Aural Training II*	1	1	MUS 1610 Voice I	1	1
MUS 1400 Computer Music Notation	.5	.5	MUS 1615 Opera Theatre (spring only) or		
MUS 1450 Audio and Acoustics (GE)	3	3	MUS 1620 Music Theatre Practicum I* (fall only)	1	1
MUS 1610 Voice I	1	1	MUS 2111 Theory III*	3	3
MUS 2300 Fundamentals of Conducting*	3	3	MUS 2121 Aural Training III*	1	1
MUS 2631 Diction for Singer I	1	1	Major Large Vocal Ensemble	1	1
Major Large Vocal Ensemble	1	1	(Piano)	(1)	(1)
(Piano)	(1)	(1)	General Education - Communication	3	3
<b>Semester Total</b>	<b>17.5-18.5</b>		<b>Semester Total</b>	<b>16.5-17.5</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>
EDFL 2250 Introduction to English Language Learners and Culturally Responsive Pedagogy	2	2	MUS 1000 Recital Attendance	0	0
FLDX 3000 Field Experience in the Content Area##	1	1	MUS 1225 Music of the World's Cultures (GE)	3	3
MUS 1000 Recital Attendance	0	0	MUS 3212 Music History 1750-Present (GE)*	3	3
MUS 2112 Theory IV*	3	3	MUS 3610 Voice II	1.5	1.5
MUS 2122 Aural Training IV*	1	1	MUS 4230 Choral Literature*	3	3
MUS 3211 Music History to 1750*	3	3	PSY 4230 Psychology of Adolescence (GE)	3	3
MUS 3305 Methods of Teaching Elementary School Music (offered fall semester of even numbered years only)##	2	2	Major Large Vocal Ensemble	1	1
MUS 3310 Choral Conducting*	3	3	General Education - Managing Information	2	2
MUS 3610 Voice II	1.5	1.5	<b>Semester Total</b>	<b>16.5</b>	
MUS 4130 Choral Arranging* (offered fall semester of even numbered years only)	2	2			
Major Large Vocal Ensemble	1	1			
<b>Semester Total</b>	<b>19.5</b>				
<i>(##These courses must be taken concurrently.)</i>					
<b>Senior Year - Fall Semester</b>		<b>Hrs</b>	<b>Senior Year - Spring Semester</b>		<b>Hrs</b>
EDFL 4210 Introduction to Content Area Literacy	2	2	FLDX 4468 Student Teaching Secondary II	4	4
EDFL 4970 Sec. Teaching & Behavioral Management	2	2	FLDX 4495 Student Teaching Elementary I	5	5
FLDX 4970 Field Experience II in the Content Area	1	1	MUS 4310 Methods of Teaching Music <sup>10</sup>	2	2
MUS 1000 Recital Attendance	0	0	MUS 4350 Secondary Field Experience II	1	1
MUS 3315 Choral Techniques*	3	3	<b>Semester Total</b>	<b>12</b>	
MUS 3610 Voice II	1.5	1.5	<i>(All non-student teaching coursework and tests must be successfully completed before this semester for enrollment in student teaching.)</i>		
MUS 4320 Methods of Teaching Middle School Music*# (offered fall semester of odd numbered years only)	2	2			
Major Large Vocal Ensemble	1	1			
General Education (only 3 hours of General Education are needed here if the other 3 hours were taken in the first semester instead of MUS 1100)	3-6	3-6			
<b>Semester Total</b>	<b>15.5-18.5</b>				
			<b>Music Education Major (Option 2: Vocal), B.M.E. Degree – 129.5-136.5 hours min.</b>		

- +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).
- <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 Competency 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.

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

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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>
DANC 1140 Jazz Dance I	1	DANC 1130 Tap Dance I	1
ENGL 1020 Composition I (GE)	3	ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE)	3
MUS 1055 (GE), 3070 (GE), 3077, or 4050 (GE)*	1	MUS 1055 (GE), 3070 (GE), 3077, or 4050 (GE)*	1
MUS 1100 Fundamentals of Music	3	MUS 1111 Theory I	3
MUS 1610 Voice I	1	MUS 1121 Aural Training I	1
THEA 1400 Script Analysis	3	MUS 1610 Voice I	1
THEA 1500 Acting	3	THEA 1100 Oral Interpretation (GE)	3
<b>Semester Total</b>	<b>15</b>	THEA 1600 Stagecraft	3
AE 1400 University Foundations**	1	<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>
DANC 1110, 1120, 3110, or 3120***	1	DANC 3210 Musical Theatre Dance	3
DANC 3140 Jazz Dance II	1	MUS 1610 Voice I	1
MUS 1055 (GE), 3070 (GE), 3077, or 4050 (GE)*	1	THEA 1520 Stage Voice	3
MUS 1610 Voice I	1	THEA 1610 Stage Makeup	3
THEA 1510 Stage Movement	3	General Education	6
THEA 2610 Design Fundamentals	3	<b>Semester Total</b>	<b>16</b>
General Education - Literature	3		
General Education - Mathematics	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>
DANC 1110, 1120, 3110, or 3120***	1	MUS 1502 Piano Class II	1
DANC 4210 Choreography I	3	MUS 1615 Opera Theatre	1
MUS 1501 Piano Class I	1	THEA 4430 American Musical Theatre History	3
THEA 3700 Directing	3	THEA 4500 Advanced Acting	3
General Education	6	General Education	6
<b>Semester Total</b>	<b>14</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 3610 Voice II	1.5	DANC 3130 Tap Dance II	1
THEA 4400 Literature & History of the Theatre I <sup>10</sup>	3	MUS 3610 Voice II	1.5
THEA 4510 Period Acting Styles	3	THEA 4420 Literature & History of the Theatre II or	3
General Education	3	THEA 4440 Literature & History of the Theatre III	3
Free Choice Electives* (6 hours needed if overlap chosen in major)	3-6	THEA 4910 Senior Showcase	1
<b>Semester Total</b>	<b>13.5-16.5</b>	General Education* (only 3 hours needed if overlap chosen in major)	3-6
		Free Choice Electives (depends on choices made in major)	3
		<b>Semester Total</b>	<b>12.5-15.5</b>

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

- \*Select three hours from the following list: MUS 1055 Collegiate Choir, 3070 Chamber Singers, 3077 Vocal Jazz Ensemble, or 4050 University Concert Choir. All three hours may be from the same course or a combination of different courses. If three hours of 1055, 3070, and/or 4050 are chosen, these hours will also fulfill 3 hours of general education requirements. If this is opted, three additional hours of free choice electives will be needed to reach 120 hours.
- \*\*AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- \*\*\*Select two different courses from the following list: DANC 1110 Modern Dance I, 1120 Ballet Dance I, 3110 Modern Dance II, and 3120 Ballet Dance II.
- <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 *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.

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

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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>
CTE 1300 Introduction to Engineering Design	3	CIS 1600 Business Information Management (GE)	3
ENGL 1020 Composition I (GE)	3	COMM 1000 Public Speaking (GE)	3
MATH 1111 College Algebra (GE)	3	CS 1030 Introduction to Computer Programming (GE)	3
NET 1000 Seminar in Networking Technology	1	ET 1010 Applied Electricity	4
NET 1058 Computer Technologies	3	NET 1061 Routing and Switching Essentials	3
NET 1060 Introduction to Networks	3	<b>Semester Total</b>	<b>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>
CS 1100 Computer Programming I	3	CIS 1612 Ethics in Information Technology (GE)	3
NET 2060 Scaling Networks	3	CTE 3060 Technical Writing (GE)	3
PHYS 1104 Introduction to the Sciences: Physics	4	NET 2061 Connecting Networks	3
General Education	6	General Education	6
<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>
ET 3017 Programmable Logic Controllers	4	CIS 3650 Database Management	3
NET 1000 Seminar in Networking Technology	1	NET 3062 Network Design	3
NET 3068 Network Security I	4	NET 3065 Converged Voice & Data Networks	3
NET 4060 Advanced Network Routing	3	NET 4040 Fundamentals of Network Operating Systems	3
General Education - Literature	3	NET 4062 Advanced Switching	3
<b>Semester Total</b>	<b>15</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>
INDM 4250 Project Management	3	CTE 3116 Creative Thinking for a Better World (GE)	3
NET 4042 Network Servers and Services	3	NET 4043 Network Servers and Infrastructure	3
NET 4063 Network Support <sup>10</sup>	3	Free Choice Electives	6
General Education	3	<b>Semester Total</b>	<b>12</b>
<b>Semester Total</b>	<b>12</b>		

## 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 *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.

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

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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		Freshman Year - Spring Semester	
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 - Mathematics	3		
<b>Semester Total</b>	<b>14</b>	<b>Semester Total</b>	<b>15</b>

Sophomore Year - Fall Semester		Sophomore Year - Spring Semester	
BIOL 3402 Human Physiology*	5	BIOL 3610 Microbiology*	3
D&N 3340 Nutrition*	3	NUR 2710 Intro. to Nursing Appl. Across the Lifespan**	1
NUR 2200 Culture & Sustainability in Health (GE)	3	Nursing Elective#	2-3
General Education - Literature	3	General Education	9
General Education - Managing Information	2-3	<b>Semester Total</b>	<b>15-16</b>
<b>Semester Total</b>	<b>16-17</b>		

### -- ENTER NURSING PROGRAM --

Junior Year - Fall Semester		Junior Year - Spring Semester	
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 --

Senior Year - Fall Semester		Senior Year - Spring Semester	
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	3	<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 Department recommends ACST 1300 Basic Statistics as the choice for the Knowledge Area II additional course general education requirement.
- #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; and NUR 4405 Aging of Self and Others.
- ##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 *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.

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

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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		Freshman Year - Spring Semester	
CTE 2000 Technology & Society (GE)*	Hrs 3	CTE 3060 Technical Writing (GE)	Hrs 3
ENGL 1020 Composition I (GE)	3	Teaching Specialty Area	6
Teaching Specialty Area	3	General Education	6
General Education - Mathematics	3	<b>Semester Total</b>	<b>15</b>
General Education	3		
<b>Semester Total</b>	<b>15</b>		

Sophomore Year - Fall Semester		Sophomore Year - Spring Semester	
EDFL 2240 Educational Psychology (GE)**	Hrs 3	EDSP 2100 Education of the Exceptional Child	Hrs 3
Teaching Specialty Area	3	SOT 4570 Computer Graphics	3
General Education - Literature	3	Teaching Specialty Area	6
General Education - Science with a laboratory	4	General Education	3
<b>Semester Total</b>	<b>13</b>	<b>Semester Total</b>	<b>15</b>

Junior Year - Fall Semester		Junior Year - Spring Semester	
CTE 4145 Curriculum Construction in Career & Technical Education***	Hrs 3	CTE 3116 Creative Thinking for a Better World (GE)*	Hrs 3
Teaching Specialty Area	6	Teaching Specialty Area	7
General Education	6	Free Choice Elective	5
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>

Senior Year - Fall Semester		Senior Year - Spring Semester	
CTE 4110 Foundations of Career & Technology Education (fall only) or CTE 4140 New Teacher Institute (fall only)***	Hrs 3	CTE 4022 Teaching/Administration Intern <sup>10</sup>	Hrs 3
CTE 4160 Methods of Teaching Career & Technical Edu.***	3	CTE 4150 Vocational Guidance or BTE 4241 Coordination of Cooperative Education Programs***	3
CTE 4180 Adult Education and Training (fall, even years only) or EDFL 4970 Secondary Teaching & Behavioral Mgmt.	2-3	CTE 4165 Performance Assess. in Career & Technical Edu.	3
Teaching Specialty Area	3	Teaching Specialty Area	6
Free Choice Elective	5-6	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>17</b>		

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

- \* CTE 2000 and CTE 3116 must be completed at UCM.
- \*\* EDFL 2240 must be taught by a state-approved two-year or four-year institution.
- \*\*\* CTE 4110, 4140, 4145, 4150, and 4160 must be taught by a state-approved four-year institution.
- <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 completing this program online should seek advice from the department and academic advisors for available online general education classes.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, [testingservices@ucmo.edu](mailto:testingservices@ucmo.edu)) for more information.

**Occupational Safety Major (Option 1: Environmental Management), B.S. Degree (43-243)**

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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	CHEM 1103 Introduction to the Sciences: Chemistry (GE)*	3
MATH 1111 College Algebra (GE)*	3	GEOG 2101 Introduction to Sustainability (GE)	3
SAFE 1000 Exploring the Safety Sciences*	1	SAFE 2900 Applied Sciences for Professional Studies	3
SAFE 3000 Principles of Accident Causation and Prevention*	3	SAFE 3070 Safety Leadership	3
General Education	6	General Education	3
<b>Semester Total</b>	<b>16</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 1005/1006 Intro. to Environmental Sci. w/ lab (GE)*	4	SAFE 3120 Industrial Hygiene*	3
CTE 3060 Technical Writing (GE)*	3	SAFE 4215 Transportation and Storage of Haz. Materials	3
GEOG 2300 Acquiring & Managing Spatial Information (GE)	2	SAFE 4440 Air Quality and Pollution Prevention	3
SAFE 3430 Industrial Hazard Control*	3	General Education - Literature	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>
SAFE 4000 Ergonomics in Safety and Health	3	SAFE 4010 Accident Investigation	3
SAFE 4025 Workers' Compensation & Legal Aspects of Safety	3	SAFE 4435 Environmental Compliance	3
SAFE 4425 Safety and Health Legislation & Standards	3	SAFE 4560 Systems Safety	3
SAFE 4940 Statistical Analysis for Risk Management	3	SAFE 4850 Industrial Fire Protection	3
General Education	3	Free Choice Elective	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>		
SAFE 4980 Practicum in Safety Sciences or 4990 Internship in Safety Sciences#	2		
<b>Semester Total</b>	<b>2</b>		
<b>Senior Year - Fall Semester</b>	<b>Hrs</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs</b>
SAFE 4035 Safety Program Management	3	SAFE 4055 Safety Capstone Experience <sup>10</sup>	3
SAFE 4140 Safety and Health Laboratory*	3	SAFE 4160 Industrial Ventilation	3
SAFE 4445 Water Quality & Waste Water Management	3	SAFE 4450 Environmental Remediation	3
SAFE Departmentally Approved Major Elective	3	Free Choice Elective	3
Free Choice Elective	3	<b>Semester Total</b>	<b>12</b>
<b>Semester Total</b>	<b>15</b>		

**Occupational Safety Major (Option 1: Environmental Management), B.S. Degree - 120 hours**

- \*A grade of C or higher is required in these courses for enrollment in future major courses and to meet graduation requirements.
- #SAFE 4980 or 4990 should be taken during the summer.
- <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 *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.

## Occupational Safety Major (Option 2: Safety Management), B.S. Degree (43-243)

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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	CHEM 1103 Introduction to the Sciences: Chemistry (GE)*	3
MATH 1111 College Algebra (GE)*	3	SAFE 2900 Applied Sciences for Professional Studies	3
SAFE 1000 Exploring the Safety Sciences*	1	SAFE 3070 Safety Leadership	3
SAFE 3000 Principles of Accident Causation and Prevention*	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>
BIOL 1005/1006 Intro. to Environmental Sci. w/ lab or PHYS 1104 or 1101 or 2121 Physics (GE)*	4-5	SAFE 3120 Industrial Hygiene*	3
CTE 3060 Technical Writing (GE)*	3	SAFE 4510 Loss Control or Minor Coursework+	3
SAFE 3015 Emergency Preparedness or Minor Coursework+	3	SAFE 4515 High Hazard Industries	3
SAFE 3430 Industrial Hazard Control*	3	General Education - Literature	3
General Education (Managing Information course)	2-3	General Education	3
<b>Semester Total</b>	<b>15-17</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>
SAFE 4000 Ergonomics in Safety and Health	3	SAFE 4010 Accident Investigation	3
SAFE 4025 Workers' Compensation & Legal Aspects of Safety	3	SAFE 4560 Systems Safety	3
SAFE 4425 Safety and Health Legislation & Standards	3	SAFE 4850 Industrial Fire Protection	3
SAFE 4940 Statistical Analysis for Risk Management	3	SAFE Departmentally Approved Major Elective or Minor Coursework+	3
General Education	3	General Education	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>		
SAFE 4980 Practicum in Safety Sciences or 4990 Internship in Safety Sciences#	2		
<b>Semester Total</b>	<b>2</b>		
<b>Senior Year - Fall Semester</b>	<b>Hrs</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs</b>
SAFE 4035 Safety Program Management	3	SAFE 4055 Safety Capstone Experience <sup>10</sup>	3
SAFE 4140 Safety and Health Laboratory	3	SAFE 4435 Environmental Compliance	3
SAFE 4215 Transportation and Storage of Haz. Materials	3	SAFE Departmentally Approved Major Elective or Minor Coursework+	3
SAFE Departmentally Approved Major Elective or Minor Coursework+	3	Free Choice Elective or Minor Coursework+	3
Free Choice Elective or Minor Coursework+	1-3	<b>Semester Total</b>	<b>12</b>
<b>Semester Total</b>	<b>13-15</b>		

## Occupational Safety Major (Option 2: Safety Management), B.S. Degree - 120 hours

- \*A grade of C or higher is required in these courses for enrollment in future major courses and to meet graduation requirements.
- +Option 2 students may choose to take a minor instead of taking SAFE 3015, SAFE 4510 and the 9 hours of SAFE Departmentally Approved Major Elective. Please note, most minors require more than 15 credit hours and this may require more than 120 credit hours.
- #SAFE 4980 or 4990 should be taken during the summer.
- <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 *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.



**Occupational Safety Major (Option 3: Occupational Health Management), B.S. Degree (43-243)**

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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	CHEM 1104 Introduction to the Sciences: Chemistry (GE)*	4
MATH 1111 College Algebra (GE)*	3	SAFE 2900 Applied Sciences for Professional Studies	3
SAFE 1000 Exploring the Safety Sciences*	1	SAFE 3070 Safety Leadership	3
SAFE 3000 Principles of Accident Causation and Prevention*	3	General Education	5-6
General Education	6	<b>Semester Total</b>	<b>15-16</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>
CTE 3060 Technical Writing (GE)*	3	PHYS 1103 Introduction to the Sciences: Physics (GE)*	3
CHEM 1604 Elementary Organic and Biochemistry*	4	SAFE 3120 Industrial Hygiene*	3
SAFE 3430 Industrial Hazard Control*	3	SAFE 4515 High Hazard Industries	3
General Education	6	General Education - Literature	3
<b>Semester Total</b>	<b>16</b>	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>
BIOL 2010 Human Biology*	3	SAFE 4010 Accident Investigation	3
SAFE 4000 Ergonomics in Safety and Health	3	SAFE 4150 Noise Measurements	2
SAFE 4025 Workers' Compensation & Legal Aspects of Safety	3	SAFE 4560 Systems Safety	3
SAFE 4425 Safety and Health Legislation & Standards	3	SAFE 4850 Industrial Fire Protection	3
SAFE 4940 Statistical Analysis for Risk Management	3	General Education	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>14</b>
<b>Summer - Between Junior &amp; Senior Year</b>	<b>Hrs</b>		
SAFE 4980 Practicum in Safety Sciences or 4990 Internship in Safety Sciences#	2		
<b>Semester Total</b>	<b>2</b>		
<b>Senior Year - Fall Semester</b>	<b>Hrs</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs</b>
SAFE 4035 Safety Program Management	3	SAFE 4055 Safety Capstone Experience <sup>10</sup>	3
SAFE 4140 Safety and Health Laboratory	3	SAFE 4160 Industrial Ventilation	3
SAFE 4215 Transportation and Storage of Haz. Materials	3	SAFE 4435 Environmental Compliance	3
SAFE 4440, 4445, 4450, or BIOL 2510	3	Free Choice Elective	3
Free Choice Elective	2-3	<b>Semester Total</b>	<b>12</b>
<b>Semester Total</b>	<b>14-15</b>		

**Occupational Safety Major (Option 3: Occupational Health Management), B.S. Degree - 120 hours**

- \*A grade of C or higher is required in these courses for enrollment in future major courses and to meet graduation requirements.
- #SAFE 4980 or 4990 should be taken during the summer.
- <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 *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.

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

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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	CHEM 1104 Introduction to the Sciences: Chemistry (GE)*	4
MATH 1111 College Algebra (GE)*	3	SAFE 2900 Applied Sciences for Professional Studies	3
SAFE 1000 Exploring Safety Sciences*	1	General Education	9
SAFE 3000 Principles of Accident Causation & Prevention*	3	<b>Semester Total</b>	<b>16</b>
General Education	5-6		
<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>
BIOL 2010 Human Biology	3	CHEM 1604 Elementary Organic & Biochemistry*	4
CTE 3060 Technical Writing (GE)*	3	SAFE 3430 Industrial Hazard Control*	3
PHYS 1103 Introduction to the Sciences: Physics (GE)*	3	SAFE 4000 Ergonomics in Safety & Health	3
General Education	6	General Education - Literature	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>13</b>

<b>Junior Year - Fall Semester</b>	<b>Hrs</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs</b>
SAFE 3120 Introduction to Industrial Hygiene*	3	SAFE 3070 Safety Leadership	3
SAFE 4425 Safety & Health Legislation & Standards	3	SAFE 4025 Workers' Compensation & Legal Aspects of Safety	3
SAFE 4940 Statistical Analysis for Risk Management	3	SAFE 4140 Safety & Health Lab*	3
SAFE 4440, 4445, 4450 or BIOL 2510	3	SAFE 4515 High Hazard Industries	3
General Education	3	SAFE 4560 Systems Safety	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>
SAFE 4990 Internship in Safety Sciences*#	2
<b>Semester Total</b>	<b>2</b>

<b>Senior Year - Fall Semester</b>	<b>Hrs</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs</b>
SAFE 4010 Accident Investigation	3	SAFE 4055 Safety Capstone Experience* <sup>10</sup>	3
SAFE 4035 Safety Program Management	3	SAFE 4160 Industrial Ventilation for Envir. Safety & Health	3
SAFE 4150 Noise Measurements	2	SAFE 4435 Environmental Compliance	3
SAFE 4215 Transportation and Storage of Hazard. Materials	3	Free Choice Elective	5-6
SAFE 4850 Industrial Fire Protection	3	<b>Semester Total</b>	<b>14-15</b>
<b>Semester Total</b>	<b>14</b>		

## 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.
- <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 seeking to graduate from this program must have a minimum 2.20 cumulative grade-point average.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, [testingservices@ucmo.edu](mailto:testingservices@ucmo.edu)) for more information.

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

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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
PHIL 1000 Introduction to Philosophy (GE)	3	PHIL 2300 Ethics (GE)	3
Modern Language Requirement*	3	Modern Language Requirement*	3
General Education - Mathematics	3	General Education	6
General Education	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>
PHIL 1400 Deductive Logic or PHIL 1410 Critical Thinking	3	ENGL 2220 World Masterpieces (GE)*	3
PHIL 3130 History of Philosophy II: Enlightenment Thought	3	PHIL 3120 History of Philosophy I: Ancient Thought	3
General Education	9	General Education	6
<b>Semester Total</b>	<b>15</b>	Free Choice Electives	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>
PHIL 3600 Special Topics in Philosophy	3	PHIL 3660 Studies in Literature & Philosophy	3
PHIL Major Elective***	3	PHIL Major Elective***	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>
PHIL 4710 Philosophy of Religion	3	PHIL 4250 Special Projects in Philosophy <sup>10</sup>	3
Free Choice Electives	12	Free Choice Electives	12
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>

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

- \*Refer to the Bachelor's Degree Requirements section of the catalog for the BA Modern Language requirements. This plan is based on 6 hours of modern language and 3 hours of ENGL 2220.
- \*\*AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- \*\*\*Six hours of PHIL Major Electives are required. See the 2016 Undergraduate Catalog for list of appropriate 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.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, [testingservices@ucmo.edu](mailto:testingservices@ucmo.edu)) for more information.

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

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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>	
ENGL 1020 <i>Composition I (GE)</i>	Hrs 3
HIST 1350 or 1351 <i>History of the United States (GE)#</i>	3
MATH 1111 <i>College Algebra (GE)#</i>	3
PE 1100 <i>Orientation and History of Physical Education#</i>	2
PE 2472 <i>Communicating Ideas on Sport (GE)#</i>	3
General Education - <i>Managing Information</i>	2
<b>Semester Total</b>	<b>16</b>

<b>Freshman Year - Spring Semester</b>	
ENGL 1030 <i>Composition II or CTE 3060 Tech. Writing (GE)</i>	Hrs 3
PE 1800 <i>Functional Anatomy#</i>	3
PHIL 1410 <i>Critical Thinking (GE)#</i>	3
POLS 1510 <i>American Government (GE)#</i>	3
<i>General Education Science w/lab</i>	4
<b>Semester Total</b>	<b>16</b>

<b>Sophomore Year - Fall Semester</b>	
BIOL 2010 <i>Human Biology (GE)#</i>	Hrs 3
EDFL 2100 <i>Introduction to the Teaching Profession#</i>	3
FLDX 2150 <i>Introductory Field Experience#</i>	1
EDFL 2240 <i>Educational Psychology (GE)#</i>	3
EDSP 2100 <i>Education of the Exceptional Child#</i>	3
PE 2100 <i>Foundations &amp; Philosophy of Teaching Physical Ed.#</i>	3
<b>Semester Total</b>	<b>16</b>

<b>Sophomore Year - Spring Semester</b>	
DANC 2100 <i>Dance Appreciation (GE)#</i>	Hrs 3
HED 1200 <i>Applied Nutrition for Healthy Living (GE)#</i>	3
HED 1350 <i>Responding to Emergencies (must do CPR option)#</i>	3
PE 2455 <i>Growth and Motor Development#</i>	3
PE 2850 <i>Foundations of Exercise Physiology#</i>	3
General Education - <i>Literature</i>	3
<b>Semester Total</b>	<b>18</b>
<i>(Successfully complete MoGEA exam by end of this semester)</i>	

<b>Junior Year - Fall Semester</b>	
EDFL 2250 <i>Introduction to English Language Learners and Culturally Responsive Pedagogy#+</i>	Hrs 2
EDFL 4210 <i>Introduction to Content Area Literacy#</i>	2
FLDX 3000 <i>Field Experience in the Content Area##+</i>	1
PE 2800 <i>Biomechanics#</i>	3
PE 4340 <i>Adapted Physical Education#</i>	3
PE 4740 <i>Legal Liability in F./W, PE, Rec. &amp; Sport Settings#</i>	2
PE 4971 <i>Methods of Teaching Reading &amp; Writing in PE#</i>	1
PSY 4230 <i>Psychology of Adolescence#</i>	3
<b>Semester Total</b>	<b>17</b>

<b>Junior Year - Spring Semester</b>	
AT 3610 <i>Care &amp; Prevention of Injuries#</i>	Hrs 3
PE 3310 <i>Analysis &amp; Teaching of Physical Training#</i>	3
PE 3320 <i>Analysis &amp; Teaching of Elementary Skills#</i>	3
PE 3330 <i>Analysis &amp; Teaching of Secondary Skills#</i>	3
PE 3340 <i>Analysis &amp; Teaching of Lifetime Activities#</i>	3
PE 3350 <i>Assessment of Elementary and Secondary Skills#</i>	2
<b>Semester Total</b>	<b>17</b>

<b>Senior Year - Fall Semester</b>	
PE 4450 <i>Techniques of Teaching Physical Education Activities in the Elementary Schools##*</i>	Hrs 3
PE 4460 <i>Tech. of Teaching PE Act. in Middle Schools &amp; HS##*3</i>	3
PE 4770 <i>Curriculum and Instructional Planning##*</i>	2
PE 4845 <i>Psychological and Social Aspects of PE#</i>	3
PE 4970 <i>Teaching and Mgmt. in PreK-12 Physical Educ.##*3</i>	3
PE 4974 <i>Assessment &amp; Data Based Decision Making in PE##*2</i>	2
PE 4975 <i>Practicum in PreK-12 Physical Education##*1</i>	1
<b>Semester Total</b>	<b>17</b>

<b>Senior Year - Spring Semester**</b>	
FLDX 4468 <i>Student Teaching Secondary II#<sup>10</sup></i>	Hrs 4
FLDX 4495 <i>Student Teaching Elementary I#</i>	5
PE 4890 <i>Methods of Teaching and Assessment in K-12 PE#</i>	3
<b>Semester Total</b>	<b>12</b>
<i>(All non-student teaching coursework and tests must be successfully completed before this semester for enrollment in student teaching.)</i>	

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

- #Option 1 students must maintain a 3.00 GPA in all PE prefix courses, a 2.75 cumulative GPA, a 3.00 in all Professional Education classes, and no grade lower than a C in classes marked with a #.
- +These courses must be taken concurrently.
- \*These courses are only offered during fall semester.
- \*\*The courses listed for this semester constitute the professional education (student teaching) block. The student should not take any other courses during this semester.
- <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.

**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 - Literature	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 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 2016 Undergraduate Catalog. Students must officially declare the minor on their Central Degree Audit to have the minor included in their degree program.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, [testingservices@ucmo.edu](mailto:testingservices@ucmo.edu)) for more information.

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

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

**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 *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.

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

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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 - Spring Semester		Hrs
ENGL 1020 <i>Composition I (GE)</i>		3	CS 1100 Computer Programming 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>

Sophomore Year - Fall Semester		Hrs	Sophomore Year - Spring Semester		Hrs
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>		

Junior Year - Fall Semester		Hrs	Junior Year - Spring Semester		Hrs
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>		4
EDFL 4210 <i>Introduction to Content Area Literacy</i>		2	EDFL 4212 <i>Literacy in the Disciplines I</i>		2
PHYS 4411 <i>Thermodynamics or CHEM 4531 Physical Chemistry: Thermodynamics &amp; Kinetics</i>		3-4	EDFL 4973 <i>Classroom Management in Content Areas</i>		1
General Education - Literature		3	EDFL 4974 <i>Content Specific Assessment</i>		1
General Education		3	FLDX 3000 <i>Field Experience in the Content Area##</i>		1
<b>Semester Total</b>		<b>16-18</b>	PHYS 3080 <i>Advanced Physics Lab and PHYS 3511 Modern Physics I or CHEM 4532 Physical Chemistry: Quantum Mechanics &amp; Spectroscopy</i>		4
			PSY 4230 <i>Psychology of Adolescence</i>		3
			STCH 4050 <i>Science Teaching Methods###</i>		3
			<b>Semester Total</b>		<b>19</b>

Senior Year - Fall Semester		Hrs	Senior Year - Spring Semester***		Hrs
EDFL 4970 <i>Secondary Teaching &amp; Behavioral Management</i>		2	FLDX 4468 <i>Student Teaching Secondary II<sup>10</sup></i>		4
EDFL 4972 <i>Literacy in the Disciplines II</i>		2	FLDX 4595 <i>Student Teaching Secondary I</i>		5
FLDX 4970 <i>Field Experience II in the Content Area</i>		1	STCH 4080 <i>Teaching Secondary Science</i>		3
PHYS Major Electives from list on Central Degree Audit###		4-6	<b>Semester Total</b>		<b>12</b>
General Education		6	<i>(All non-student teaching coursework and tests must be successfully completed before this semester for enrollment in student teaching.)</i>		
<b>Semester Total</b>		<b>15-17</b>			

## 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 progress in major coursework.
- ##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 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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
POLS 1500 Introduction to Politics (GE)	3	POLS 1510 American Government (GE)	3
Modern Language Requirement (GE)*	3	Modern Language Requirement*	3
General Education - Mathematics	3	General Education	6
General Education	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>
POLS 2540 Survey of Political Theory (fall only)	3	POLS 2520 Comp. Gov't. & Politics or 2530 World Politics	3
Modern Language Requirement*	3	POLS Elective***	6
General Education - Literature	3	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>
POLS Elective***	3	POLS 3560 Research Methods in Political Science	3
Free Choice Electives	12	POLS Area of Emphasis Elective	3
<b>Semester Total</b>	<b>15</b>	Free Choice Electives	9
		<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>
POLS 4601 Senior Seminar in Political Science <sup>10</sup>	3	POLS Area of Emphasis Elective	3
POLS Area of Emphasis Elective	3	Free Choice Electives	12
Free Choice Electives	9	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>15</b>		

**Political Science Major, B.A. Degree – 120 hours**

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



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

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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
POLS 1500 Introduction to Politics (GE)	3	POLS 1510 American Government (GE)	3
General Education - Mathematics	3	General Education	9
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 2540 Survey of Political Theory (fall only)	3	POLS 2520 Comp. Gov't. & Politics or 2530 World Politics	3
POLS Elective**	3	POLS Elective**	3
General Education - Literature	3	General Education	3
General Education	6	Free Choice Elective	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>
POLS Elective**	3	POLS 3560 Research Methods in Political Science	3
Free Choice Electives	12	POLS Area of Emphasis Elective	3
<b>Semester Total</b>	<b>15</b>	Free Choice Electives	9
		<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>
POLS 4601 Senior Seminar in Political Science <sup>10</sup>	3	POLS Area of Emphasis Elective	3
POLS Area of Emphasis Electives	3	Free Choice Electives	12
Free Choice Electives	9	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>15</b>		

**Political Science Major, B.S. Degree – 120 hours**

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

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

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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 (GE) or CTE 3060 Technical Writing (GE)	3
PHOT 1210 Foundations of Professional Photography	3	PHOT 2216 Photographer's Forum 2	1
PHOT 1211 Image Critique	1	PHOT 2220 Digital Workflow+	3
PHOT 1216 Photographer's Forum 1	1	PHOT 2230 Color Imaging+	3
PHOT 1230 Digital Imaging	3	General Education	6
General Education - Mathematics	3	<b>Semester Total</b>	<b>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>
PHOT 2210 Studio Photography+	3	PHOT 2200 Editorial Photography+	1
PHOT 2215 History of Photography+	3	PHOT 3216 Photographer's Forum 3**	3
PHOT 2250 Portrait Photography+	3	General Education	12
General Education - Literature	3	<b>Semester Total</b>	<b>16</b>
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>
PHOT 3260 Digital Media+	3	PHOT Major Electives	6
PHOT Major Elective	3	General Education	3
General Education	6	Free Choice Electives (take upper level 3000/4000 if needed)#	7
Free Choice Elective	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>
PHOT 4216 Photographer's Forum 4	1	PHOT 4270 Portfolio <sup>10</sup> +	3
PHOT 4230 Business Management for Photographers+	3	Free Choice Electives (take upper level 3000/4000 if needed)#	9
PHOT Major Elective	3	<b>Semester Total</b>	<b>12</b>
Free Choice Electives	9		
<b>Semester Total</b>	<b>16</b>		

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

- \*AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- +Course offered only during term indicated.
- \*\*Mid-Program Review is required before the conclusion of the 3rd Photographer's Forum. Successful completion is required before students can enroll in PHOT 4270 Portfolio.
- #This major does not build in the minimum number (30) of upper-level credit hours required for graduation. Be sure to include upper-level choices (3000/4000) in your major electives, general education, and/or free choice electives.
- <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 *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.

## Professional Pilot Major, B.S. Degree (43-554)

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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>	
AVIA 1020 Aeronautics*	2	COMM 1000 Public Speaking or COMM 1050 Fundamentals of Oral Communication Competency (GE)	3
AVIA 1310 FAA Private Requirements*	4	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>16</b>	<b>Semester Total</b>	<b>15</b>
AE 1400 University Foundations**	1		

<b>Sophomore Year - Fall Semester</b>		<b>Sophomore Year - Spring Semester</b>	
AVIA 2310 Propulsion Systems	3	AVIA 2340 Aircraft Systems & Components	3
AVIA 2325 Instrument Rating Ground School	4	AVIA 2350 Aviation Weather (spring only)	3
AVIA 3710 Professional Ethics in Aviation*	2	AVIA 3305 FAA Commercial Requirements	3
FLYA 2313 Instrument Flight A	1	FLYA 3311 Commercial Flight B	1
FLYA 2314 Instrument Flight B	1	FLYA 3312 Commercial Flight C	1
General Education - Literature	3	General Education	5
<b>Semester Total</b>	<b>14</b>	<b>Semester Total</b>	<b>16</b>

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

<b>Senior Year - Fall Semester</b>		<b>Senior Year - Spring Semester</b>	
AVIA 3360 Flight Instructor - Airplane	2	AVIA 4090 Aviation Law*	3
AVIA 4040 Aviation Management*	3	AVIA 4500 Aviation Safety*	3
AVIA 4370 Advanced Flight Crew Management	3	AVIA 4999 Integrative Studies Capstone <sup>10</sup> *	3
AVIA 4420 Air Transportation or AVIA 4430 Corporate Aviation Management	3	Free Choice Electives	4
FLYA 3330 Multi Engine Certificate or FLYA 3430 Single-Engine Add-On	1	<b>Semester Total</b>	<b>13</b>
FLYA 3360 Flight Instructor Lab - Airplane	1		
General Education	3		
<b>Semester Total</b>	<b>16</b>		

## Professional Pilot Major, B.S. Degree - 121 hours

- \*Students are required to maintain a minimum GPA of 2.25 in the Aviation Department Core classes to maintain flight status for FLYA courses.
- \*\*AE 1400 is a free choice elective and is highly recommended for academic success. This major does not require any free choice elective 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.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, [testingservices@ucmo.edu](mailto:testingservices@ucmo.edu)) for more information.

**Psychology Major (Choice 1), B.A. Degree (42-746)**

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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 - Mathematics	3		
General Education	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>
PSY 3220 Lifespan Development	3	PSY 4520 Statistics for the Behavioral Sciences	3
Modern Language Requirement*	3	PSY 2130 Learning	3
General Education - Literature	3	General Education	6
General Education	6	Free Choice Electives	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>
PSY 2100 Research Methods	3	PSY 3120 Brain & Behavior	3
PSY 3340 Social Psychology	3	PSY 4440 Abnormal Psychology	3
Free Choice Electives	8	Free Choice Electives	9
<b>Semester Total</b>	<b>14</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 History of Psychology <sup>10</sup>	3
Free Choice Electives (Upper Level 3000/4000)#	12	Free Choice Electives	12
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>

**Psychology Major (Choice 1), 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.
- #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 *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.

**Psychology Major (Choice 2), B.A. Degree (42-746)**

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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 - Mathematics	3		
General Education	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>
PSY 3220 Lifespan Development	3	PSY 4520 Statistics for the Behavioral Sciences	3
Modern Language Requirement*	3	PSY 2130 Learning	3
General Education - Literature	6	General Education	6
General Education	3	Free Choice Electives	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>
PSY 2100 Research Methods	3	PSY 3130 Physiological Psychology	4
PSY 3340 Social Psychology	3	PSY 4440 Abnormal Psychology	3
Free Choice Electives	8	Free Choice Electives	9
<b>Semester Total</b>	<b>14</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>
PSY 4310 Theories of Personality	3	PSY 4110 History of Psychology <sup>10</sup>	3
Free Choice Electives (Upper Level 3000/4000)#	12	Free Choice Electives	11
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>14</b>

**Psychology Major (Choice 2), 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.
- #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 *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.

**Psychology Major (Choice 3), B.A. Degree (42-746)**

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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 - Mathematics	3		
General Education	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>
PSY 2110 Research Design & Analysis I	4	PSY 2120 Research Design & Analysis II	4
Modern Language Requirement*	3	PSY 2130 Learning	3
General Education - Literature	3	General Education	6
General Education	6	Free Choice Electives	3
<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>
PSY 3220 Lifespan Development	3	PSY 3120 Brain & Behavior	3
PSY 3340 Social Psychology	3	PSY 4440 Abnormal Psychology	3
Free Choice Electives	8	Free Choice Electives	9
<b>Semester Total</b>	<b>14</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 History of Psychology <sup>10</sup>	3
Free Choice Electives (Upper Level 3000/4000)#	12	Free Choice Electives	10
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>13</b>

**Psychology Major (Choice 3), 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.
- #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 *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.

**Psychology Major (Choice 4), B.A. Degree (42-746)**

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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.

<p><b>Freshman Year - Fall Semester</b>                      ENGL 1020 Composition I (GE) 3                      PSY 1000 Orientation to Psychology 1                      PSY 1100 General Psychology (GE) 3                      Modern Language Requirement (GE)* 3                      General Education - Mathematics 3                      General Education 3  <b>Semester Total 16</b></p>	<p><b>Freshman Year - Spring Semester</b>                      ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE) 3                      Modern Language Requirement* 3                      General Education 9  <b>Semester Total 15</b></p>
<p><b>Sophomore Year - Fall Semester</b>                      PSY 2110 Research Design &amp; Analysis 4                      Modern Language Requirement* 3                      General Education - Literature 3                      General Education 6  <b>Semester Total 16</b></p>	<p><b>Sophomore Year - Spring Semester</b>                      PSY 2120 Research Design &amp; Analysis II 4                      PSY 2130 Learning 3                      General Education 6                      Free Choice Electives 3  <b>Semester Total 16</b></p>
<p><b>Junior Year - Fall Semester</b>                      PSY 3130 Physiological Psychology 4                      PSY 3220 Lifespan Development 3                      Free Choice Electives 8  <b>Semester Total 15</b></p>	<p><b>Junior Year - Spring Semester</b>                      PSY 3340 Social Psychology 3                      PSY 4440 Abnormal Psychology 3                      Free Choice Electives 9  <b>Semester Total 15</b></p>
<p><b>Senior Year - Fall Semester</b>                      PSY 4310 Theories of Personality 3                      Free Choice Electives (Upper Level 3000/4000)# 12  <b>Semester Total 15</b></p>	<p><b>Senior Year - Spring Semester</b>                      PSY 4110 History of Psychology<sup>10</sup> 3                      Free Choice Electives 9  <b>Semester Total 12</b></p>

**Psychology Major (Choice 4), 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.
- #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 *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.

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

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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 - Mathematics	3		
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 2110 Research Design & Analysis I (fall only)**	4	PSY 2120 Research Design & Analysis II (spring only)**	4
General Education - Literature	3	PSY 2130 Learning	3
General Education	6	General Education	3
Free Choice Electives	2	Free Choice Electives	5
<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>
PSY 3130 Physiological Psychology	4	PSY 3340 Social Psychology	3
PSY 3220 Lifespan Development	3	PSY 4440 Abnormal Psychology	3
Free Choice Electives	8	PSY Major Electives*	3
<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>
PSY 4310 Theories of Personality	3	PSY 4110 History of Psychology <sup>10</sup>	3
PSY Major Electives*	3	PSY Major Electives*	3
Free Choice Electives (2 hours of Upper Level 3000/4000 may be needed depending on choices made in general education)#	9	Free Choice Electives	8
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>14</b>

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

- \*See the 2016 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 *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.



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

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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>
COMM 1000 Public Speaking or COMM 1050 Fundamentals of Oral Communication Competency (GE)*	3	ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE)*	3
ENGL 1020 Composition I (GE)*	3	PR 2620 Principles of Public Relations*^	3
PR 1600 Orientation to Public Relations*	3	General Education	9
General Education - Mathematics	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>
PR 3605 Survey of PR Research and Theory*	3	PR 3610 Writing & Editing for Public Relations*^	3
Major Elective***	3	PR 3620 Strategic Planning & Research for Public Relations**^	3
General Education - Literature	3	PR 3625 Design and Layout for Public Relations	3
General Education	6	General Education	6
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>

(\*\*Apply for admission to the major during this semester.)

<b>Junior Year - Fall Semester</b>	<b>Hrs</b>	<b>Junior Year - Spring Semester</b>	<b>Hrs</b>
COMM 4250 The Law & Digital Media or BLAW 3721 Law of Business Transactions+	3	PR 4605 Public Relations Internship##	3
PR 3640 Integrated Strategic Communication for PR	3	PR 4610 Public Relations Management & Industry Practices	3
PR 4680 Advanced Public Relations Writing	3	PR 4685 Strategic Public Relations Case Analysis	3
General Education	3	Major Elective***	3
Free Choice Elective#	3	Free Choice Electives#	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>
PR 4630 Electronic & Social Media for Public Relations	3	PR 4690 Public Relations Campaigns <sup>10</sup>	3
Major Elective***	6	Major Electives***	6
Free Choice Electives#	6	Free Choice Electives#	6
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>

**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 PR 2620, 3610, 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 18 hours of major electives from two different course lists. Consult the 2016 Undergraduate Catalog or the Central Degree Audit for appropriate course choices.
- ^A combined minimum GPA of 2.33 is required in these three courses (essentially, a minimum of 1 B and 2 C grades).
- +Enrollment in BLAW 3721 will require the choice of BLAW 2720 as one of the free choice electives. BLAW 2720 is a prerequisite to BLAW 3721.
- #This program requires 18 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 summer after sophomore or junior 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 graduate with this major, students must have a 2.25 cumulative and UCM GPA and a 2.50 major GPA.
- During the capstone course taken in the senior year, all graduates must satisfactorily complete a final assessment project before graduating. See department advisor for requirements.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, [testingservices@ucmo.edu](mailto:testingservices@ucmo.edu)) for more information.

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

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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	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
COMM 1000 Public Speaking (GE)	3	BIOL 3611 Microbiology	4
PHYS 1101 College Physics I (GE)	4	BIOL 4003 Radiologic Technology Senior Seminar <sup>10</sup>	1
General Education - Literature	3	COMM 3000 Film Appreciation (GE)	3
General Education - Managing Information	2-3	PHIL 2300 Ethics (GE)	3
<b>Semester Total</b>	<b>17-18</b>	<b>Semester Total</b>	<b>15</b>
<b>Junior Year - Fall Semester - Special Credit</b>	<b>Hrs</b>	<b>Junior Year - Spring Semester - Special Credit</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 - Special Credit</b>	<b>Hrs</b>		
Radiologic Technology Special Credits	6		
<b>Semester Total</b>	<b>6</b>		
<b>Senior Year - Fall Semester - Clinical</b>	<b>Hrs</b>	<b>Senior Year - Spring Semester - 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 - Clinical</b>	<b>Hrs</b>		
Clinical Credits	6		
<b>Semester Total</b>	<b>6</b>		

**Radiologic Technology, B.S. Degree - 127 hours**

- +A grade of C or higher is required in this course as a prerequisite for BIOL 3611.
- <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 of 2.75. Also a minimum major GPA of 2.75 is required and a minimum grade of C or better is required in listed program courses. Students must earn at least 50% of their required major hours through UCM.
- Candidates for this degree must successfully complete a minimum number of hours of shadowing in a diagnostic area of Radiologic Technology (each affiliate establishes their own minimum number of hours).
- Students must meet with a departmental advisor within enrolling in 30 credit hours to obtain specific course information, program and learning assessment goals, and the Prospective Student Information Guide. This helps ensure success in the program.
- Coursework completed in the junior and senior years are transferred to UCM as the listed course equivalencies in the Undergraduate Catalog.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, [testingservices@ucmo.edu](mailto:testingservices@ucmo.edu)) for more information.

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

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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.

<b>Freshman Year - Fall Semester</b>		<b>Hrs</b>	<b>Freshman Year - Spring Semester</b>		<b>Hrs</b>
CTE 2000 Technology and Society (GE)		3	ANTH 1810 Human Prehistory		3
ENGL 1020 Composition I (GE)		3	ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE)		3
General Education - Mathematics		3	HIST 1350 History of the United States to 1877 (GE)		3
General Education		6	General Education - Science with Laboratory		4
<b>Semester Total</b>		<b>15</b>	General Education		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>
ANTH 1820 Cultural Anthropology		3	EDFL 2250 Introduction to English Language Learners and Culturally Responsive Pedagogy		2
HIST 1351 History of the United States from 1877 (Foundations Block)#		3	HIST 1400 History of the Early World		3
EDFL 2100 Introduction to the Teaching Profession#		3	POLS 1510 American Government		3
FLDX 2150 Introductory Field Experience#		1	PSY 1100 General Psychology		3
EDFL 2240 Educational Psychology#		3	SOC 1800 General Sociology (GE)		3
EDSP 2100 Education of the Exceptional Child#		3	General Education - Literature		3
<b>Semester Total</b>		<b>16</b>	<b>Semester Total</b>		<b>17</b>
<i>(After this semester take US History content exam.)</i>			<i>(Successfully complete MoGEA exam by end of this semester)</i>		
			<i>(After this semester take Behavioral Sciences and Political Science content exams.)</i>		

<b>Junior Year - Fall Semester</b>		<b>Hrs</b>	<b>Junior Year - Spring Semester</b>		<b>Hrs</b>
ECON 1010 Principles of Macroeconomics		3	ECON 1011 Principles of Microeconomics		3
EDFL 4210 Introduction to Content Area Literacy		2	HIST 1402 History of the Modern World		3
GEOG 2212 World Geography		3	HIST 43XX Upper-Level Elective*		3
HIST 1401 History of the Early Modern World		3	<b>(Social Studies Block)##</b>		
HIST 43XX Upper-Level Elective*		3	FLDX 3000 Field Experience in the Content Area##		1
PSY 4230 Psychology of Adolescence (GE)		3	SOSC 4972 Literacy in Social Studies##		2
<b>Semester Total</b>		<b>17</b>	SOSC 4973 Secondary Classroom Management in SS##		2
<i>(After this semester take Geography content exam.)</i>			SOSC 4974 Social Studies Assessment##		1
			<b>Semester Total</b>		<b>15</b>
			<i>(After this semester take World History and Economics content exams.)</i>		

<b>Senior Year - Fall Semester</b>		<b>Hrs</b>	<b>Senior Year - Spring Semester++</b>		<b>Hrs</b>
EDFL 4212 Literacy in the Disciplines I		2	FLDX 4595 Student Teaching Secondary I		6
EDFL 4970 Secondary Teaching & Behavioral Management		2	FLDX 4468 Student Teaching Secondary II <sup>10</sup>		6
FLDX 4970 Field Experience II in the Content Area		1	<b>Semester Total</b>		<b>12</b>
POLS 2511 State Government		3	<i>(All non-student teaching coursework and tests must be successfully completed before this semester for enrollment in student teaching.)</i>		
SOSC 4074 Methods of Teaching Social Studies		3			
HIST 44XX Upper-Level Elective*+		3			
<b>Semester Total</b>		<b>14</b>			

## 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 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.

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

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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
SOC 1800 General Sociology (GE)*	3	General Education	12
General Education - Mathematics	3	<b>Semester Total</b>	<b>15</b>
General Education**	6		
<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>
PSY 1100 General Psychology (GE)*	3	BIOL 2010 Human Biology (GE)*	3
General Education - Literature	3	SOWK 2600 Introduction to Social Welfare & Social Work	3
General Education	3	Free Choice Electives	9
Free Choice Electives	7	<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>
SOC 2805 Introduction to Social Research	3	SOC 3825 Race & Ethnic Relations	3
SOWK 3601 Social Work Practice & the Agency Experience	3	SOWK 3605 Methods of Inquiry & Eval. for Social Workers	3
SOWK 3612 Human Behavior Across the Lifespan	3	SOWK 3610 Social Work Practice: Basic Skills	3
SOWK 4612 Human Behavior Social Systems	3	SOWK 4640 SW Practice: Inter. w/Communities & Orgs.	3
Free Choice Electives	4	Free Choice Electives#	4
<b>Semester Total</b>	<b>16</b>	<b>Semester Total</b>	<b>16</b>

### Apply for Admission to Social Work Program

<b>Senior Year - Fall Semester</b>	<b>Hrs</b>	<b>Senior Year - Spring Semester</b>	<b>Hrs</b>
PSY 4440 Abnormal Psychology	3	SOWK 4660 Field Practicum	9
SOWK 4610 Special Topics in Social Work or SOWK 4620 Social Services and Policy w/ Older Adults	3	SOWK 4661 Field Practicum Seminar <sup>10</sup>	3
SOWK 4630 SW Practice: Inter. with Families & Groups	3	<b>Semester Total</b>	<b>12</b>
SOWK 4650 Social Policy & Economic Justice	3		
Free Choice Electives	3		
<b>Semester Total</b>	<b>15</b>		

## 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 *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.

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

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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
SOC 1800 General Sociology (GE)	3	SOC Major Elective	3
Modern Language Requirement (GE)*	3	Modern Language Requirement*	3
General Education - Mathematics	3	General Education	6
General Education	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>
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
Modern Language Requirement*	3	General Education	9
General Education - Literature	3	Free Choice Electives or Minor Coursework+	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>
SOC Major Elective (3000/4000 level)++	3	SOC Major Elective (3000/4000 level)++	3
General Education	3	Free Choice Electives or Minor Coursework+	12
Free Choice Electives or Minor Coursework+	9	<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	SOC 4895 Senior Seminar in Public Sociology (spring only) <sup>10</sup>	3
SOC 4890 Social Survey Research (fall only)	3	Free Choice Electives*** (3000/4000 level)++	12
Free Choice Electives*** (3000/4000 level)++	9	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>15</b>		

**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 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 *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.

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

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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.

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

**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 *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.

**Special Education Major (Area 1: Cross-Categorical Disabilities), B.S. in Ed. Degree (41-01784)**

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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	EDFL 2100 Introduction to the Teaching Profession	3
MATH 1820 <i>Introduction to Mathematical Modeling (GE)</i>	3	FLDX 2150 Introductory Field Experience	1
POLS 1510 <i>American Government (GE)</i>	3	EDFL 2240 Educational Psychology (GE)	3
General Education - <i>Science with Laboratory</i>	4	EDSP 2100 Education of the Exceptional Child	3
General Education - <i>Managing Information</i>	2-3	ENGL 1030 <i>Composition II or CTE 3060 Tech. Writing (GE)</i>	3
<b>Semester Total</b>	<b>15-16</b>	MATH 1620 <i>Contemporary Mathematics (GE)</i>	3
AE 1400 University Foundations*	1	<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>
ECEL 2110 Diversity and Social Justice (GE)	3	CD 4402 Language Acq. for Children w/Devel. Disabilities	2
ECEL 2610 Life & Earth Science for Teachers or ECEL 2620 Physical Science & Eng. Design for Teachers	3	EDFL 2250 Introduction to English Language Learners and Culturally Responsive Pedagogy	3
EDSP 4140 Collaborating with Families of Excep. Children	3	EDFL 3210 Methods of Reading Instruction	2
HIST 1350 or 1351 History of the United States (GE)	3	General Education	9
General Education - Literature	3	<b>Semester Total</b>	<b>16</b>
<b>Semester Total</b>	<b>15</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>
EDSP 4620 Evaluation of Abilities & Achievement	3	EDSP 4210 Teaching Emergent & At-Risk Readers	3
EDSP 4150 Career Development for Student w/Disabilities	2	EDSP 4360 Behavior Management Techniques	2
EDFL 3215 Teaching Reading Content	3	EDSP 4361 Practicum in Behavior Management Techniques	1
MATH 3890 Concepts & Methods for Teaching Special Educ.	3	EDSP 4385 Intro. Cross Cat. Spec. Ed. (spring & summer only)	3
PSY 2220 Child Psychology**	3	MATH 4890 Math for Special Education	3
Free Choice Electives	2-3	PSY 4230 Psychology of Adolescence**	3
<b>Semester Total</b>	<b>16-17</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>
EDSP 4421 Methods of Cross-Cat I: ID/OHI (fall only)	3	FLDX 4395 Student Teaching in Special Education I <sup>10</sup>	8
EDSP 4422 Methods of Cross-Cat Dis. II: LD (fall only)	3	FLDX 4468 Student Teaching Second II	4
EDSP 4423 Methods of Cross-Cat Dis. III E/BD (fall only)	3	<b>Semester Total</b>	<b>12</b>
EDSP 4700 IEP and the Law	3		
Free Choice Electives	2		
<b>Semester Total</b>	<b>14</b>		

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

**Special Education Major (Area 1: Cross-Categorical Disabilities), B.S. in Ed. Degree - 120 hours**

- \*AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- \*\*With permission of advisor, students may substitute PSY 3220 Lifespan Psychology for both PSY 2220 and PSY 4230.
- \*\*\*The courses listed for this semester constitute the professional education (student teaching) block. The student should not take any other courses during this semester.
- <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.

**Special Education Major (Area 2: Autism and Severe Disabilities), B.S. in Ed. Degree (41-02784)**

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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	EDFL 2100 Introduction to the Teaching Profession	3
MATH 1820 <i>Introduction to Mathematical Modeling (GE)</i>	3	FLDX 2150 Introductory Field Experience	1
POLS 1510 <i>American Government (GE)</i>	3	EDFL 2240 Educational Psychology (GE)	3
General Education - <i>Science with Laboratory</i>	4	EDSP 2100 Education of the Exceptional Child	3
General Education - <i>Managing Information</i>	2-3	ENGL 1030 <i>Composition II or CTE 3060 Tech. Writing (GE)</i>	3
<b>Semester Total</b>	<b>15-16</b>	MATH 1620 <i>Contemporary Mathematics (GE)</i>	3
AE 1400 University Foundations*	1	<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>
ECEL 2610 Life & Earth Science for Teachers or ECEL 2620 Physical Science & Eng. Design for Teachers	3	CD 4402 Language Acquisition for Children w/Dev. Disabil.	2
EDSP 4370 Screening, Diagnosing, & Prescribing Instruction	3	EDFL 2250 Introduction to English Language Learners and Culturally Responsive Pedagogy	2
HIST 1350 or 1351 <i>History of the United States (GE)</i>	3	EDSP 4140 Collaborating with Families of Excep. Children	3
General Education - <i>Literature</i>	3	PE 4340 Adaptive Physical Education	3
General Education	3	General Education	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>13</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>
ECEL 2110 Diversity and Social Justice (GE)	3	EDSP 4210 Teaching Emergent & At-Risk Readers	3
EDFL 3210 Methods of Reading Instruction	3	EDSP 4310 Introduction to Students with Autism and SDD#	2
EDSP 4620 Evaluation of Abilities & Achievement	3	EDSP 4350 Augmentative & Alternative Comm. (spring only)	3
PSY 2220 Child Psychology**	3	EDSP 4360 Behavior Management Techniques	2
MATH 3890 Concepts & Methods of Teach. for Special Educ.	3	EDSP 4361 Practicum in Behavior Management Techniques	1
<b>Semester Total</b>	<b>15</b>	EDSP 4161 Physical and Health Care Needs of Students with Autism and Severe Developmental Disabilities##	2
		MATH 4890 Math for Special Education	3
		NUR 4060 Physical and Health Needs of the Medically Fragile Child##	1
		<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>
EDSP 4330 Curriculum & Methods for Teaching Students w/ Autism and Severe Developmental Disabilities I#	3	FLDX 4395 Student Teaching in Special Education I <sup>10</sup>	8
EDSP 4450 Curriculum & Methods for Teaching Students w/ Autism and Severe Developmental Disabilities II#	3	FLDX 4468 Student Teaching II	4
EDSP 4700 IEP and the Law	3	<b>Semester Total</b>	<b>12</b>
PSY 4230 Psychology of Adolescence**	3		
General Education	3		
Free Choice Electives	1-2		
<b>Semester Total</b>	<b>16-17</b>		

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

**Special Education Major (Area 2: Autism and Severe Disabilities), 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.
- <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.



**Special Education Major (Area 3: Early Childhood Special Education), B.S. in Ed. Degree (41-03784)**

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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</b> - Fall Semester	<b>Hrs</b>	<b>Freshman Year</b> - Spring Semester	<b>Hrs</b>
ENGL 1020 Composition I (GE)	3	EDFL 2240 Educational Psychology (GE)	3
MATH 1820 Introduction to Mathematical Modeling (GE)	3	EDFL 2100 Foundation of Education	3
POLS 1510 American Government (GE)	3	FLDX 2150 Introductory Field Experience	1
General Education - Science with Laboratory	4	EDSP 2100 Education of the Exceptional Child	3
General Education - Managing Information	2-3	ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE)	3
<b>Semester Total</b>	<b>15-16</b>	MATH 1620 Contemporary Mathematics (GE)	3
		<b>Semester Total</b>	<b>16</b>

<b>Sophomore Year</b> - Fall Semester	<b>Hrs</b>	<b>Sophomore Year</b> - Spring Semester	<b>Hrs</b>
CFD 1220 Child Development	3	CFD 1230 Observation of Children	2
ECEL 2110 Diversity and Social Justice (GE)	3	D&N 2310 Early Childhood Nutrition & Health	2
ECEL 2610 Life & Earth Science for Teachers or ECEL 2620 Physical Science & Eng. Design for Teachers	3	EDSP 3150 Community & Family Resources	2
EDFL 2250 Introduction to English Language Learners and Culturally Responsive Pedagogy	2	EDSP 3151 Community & Family Resources Practicum	1
HIST 1350 or 1351 History of the United States (GE)	3	EDSP 4140 Collaborating with Families of Excep. Children	3
<b>Semester Total</b>	<b>14</b>	General Education - Literature	3
		General Education	3
		<b>Semester Total</b>	<b>16</b>
		<i>(Successfully complete MoGEA exam by end of this semester)</i>	

<b>Junior Year</b> - Fall Semester	<b>Hrs</b>	<b>Junior Year</b> - Spring Semester	<b>Hrs</b>
EDFL 3210 Methods of Reading Instruction	3	EDSP 4210 Teaching Emergent & At-Risk Readers	3
EDSP 4370 Screening, Diagnosing, & Prescribing Instruction	3	EDSP 4350 Augmentative & Altern. Comm. (spring only)	3
EDSP 4620 Evaluation of Abilities & Achievement	3	EDSP 4360 Behavior Management Techniques	2
MATH 3890 Concepts & Methods for Teaching Special Ed.	3	EDSP 4361 Practicum in Behavior Management Techniques	1
General Education	3	EDSP 4161 Physical and Health Care Needs of Students with Autism and Severe Developmental Disabilities**	2
<b>Semester Total</b>	<b>15</b>	EDSP 4320 Intro. to Early Childhood Special Education	3
		NUR 4060 Physical and Health Needs of the Medically Fragile Child**	1
		<b>Semester Total</b>	<b>15</b>

<b>Senior Year</b> - Fall Semester	<b>Hrs</b>	<b>Senior Year</b> - Spring Semester**	<b>Hrs</b>
CD 2000 The Bases of Speech & Language	2	FLDX 4395 Student Teaching in Special Education I <sup>10</sup>	6
ECEL 3220 The Teaching of Language Arts	3	FLDX 4396 Student Teaching in Special Education II	6
EDSP 4440 Curriculum & Methods ECSE	3	<b>Semester Total</b>	<b>12</b>
EDSP 4700 IEP and the Law	3	<i>(All non-student teaching coursework and tests must be successfully completed before this semester for enrollment in student teaching.)</i>	
General Education	3		
Free Choice Electives	2-3		
<b>Semester Total</b>	<b>16-17</b>		

**Special Education Major (Area 3: Early Childhood Special Education), B.S. in Ed. Degree – 120 hours**

- \*EDSP 4161 and NUR 4060 must be taken in the same semester.
- \*\*The courses listed for this semester constitute the professional education (student teaching) block. The student should not take any other courses during this semester.
- <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 contact your faculty advisor to make sure you are planning to take the courses in the appropriate semester to stay on track. EDSP 4320 is fall semester only, and EDSP 4350, 4440, and 4470 are spring semester only.
- The Missouri General Education Assessment (MoGEA) is an exam required of all Teacher Education students. Students must pass all areas of the MoGEA for admission to the Teacher Education Program. Students should take and successfully complete the MoGEA before completion of their sophomore year (60 earned hours). See your academic advisor to discuss the classes needed to prepare for the exam.
- Teacher Education candidates must take the appropriate Missouri Content Assessment (MoCA) for their certification area before they can student teach, and must pass it in order to be recommended for certification. Information and registration is available on the MEGA website: <http://www.mo.nesinc.com/>.
- See [www.ucmo.edu/cert](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 Communication and Theatre Major, B.S. in Ed. Degree (41-362)**

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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	ENGL 1030 <i>Composition II or CTE 3060 Tech. Writing (GE)</i>	3
THEA 1100 <i>Oral Interpretation (GE)</i>	3	HIST 1350 or 1351 <i>History of the United States (GE)</i>	3
THEA 1500 <i>Acting</i>	3	THEA 2400 <i>Discovering Theatre (GE)</i>	3
THEA 1600 <i>Stagecraft</i>	3	THEA 2610 <i>Design Fundamentals</i>	3
General Education - <i>Mathematics</i>	3	General Education - <i>Science with Laboratory</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 <i>Argumentation &amp; Debate (fall only)</i>	3	COMM 1000 <i>Public Speaking</i>	3
EDFL 2100 <i>Introduction to the Teaching Profession</i>	3	COMM 2100 <i>Introduction to Communication Theory</i>	3
FLDX 2150 <i>Introductory Field Experience</i>	1	COMM 2330 <i>Communication in Small Groups/Teams</i>	3
EDFL 2240 <i>Educational Psychology</i>	3	THEA 1900 <i>Theatre Practicum: Costume Shop</i>	1
EDSP 2100 <i>Education of the Exceptional Child</i>	3	THEA 3700 <i>Directing</i>	3
POLS 1510 <i>American Government (GE)</i>	3	WGS 2000 <i>Race, Class, and Gender (GE)</i>	3
<b>Semester Total</b>	<b>16</b>	General Education - <i>Managing Information</i>	2
		<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>
COMM 3000 <i>Film Appreciation (GE)</i>	3	COMM 1200 <i>Introduction to Mass Communication</i>	3
COMM 3390 <i>Forensics</i>	1	EDFL 4210 <i>Introduction to Content Area Literacy</i>	2
EDFL 2250 <i>Introduction to English Language Learners and Culturally Responsive Pedagogy#</i>	2	EDFL 4212 <i>Literacy in the Disciplines I</i>	2
FLDX 3000 <i>Field Experience in the Content Area#</i>	1	PSY 4230 <i>Psychology of Adolescence</i>	3
THEA 4400 <i>Literature &amp; History of the Theatre I</i>	3	THEA 1900 <i>Theatre Practicum: Scene Shop</i>	1
General Education - <i>Literature</i>	3	THEA 3630 <i>Studio Theatre I</i>	1
General Education	3	General Education	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>
DANC 3210 <i>Musical Theatre Dance</i>	3	FLDX 4468 <i>Student Teaching Secondary II<sup>10</sup></i>	4
EDFL 4970 <i>Secondary Teaching &amp; Behavior Management</i>	2	FLDX 4595 <i>Student Teaching Secondary I</i>	5
FLDX 4970 <i>Field Experience II in the Content Area</i>	1	THEA 4920 <i>Secondary Field Experience II</i>	1
EDFL 4972 <i>Literacy in the Disciplines II</i>	2	THEA 4930 <i>Co-Curricular Practicum</i>	2
EDFL 4973 <i>Classroom Management in Content Areas</i>	1	<b>Semester Total</b>	<b>12</b>
EDFL 4974 <i>Content Specific Assessment</i>	1	<i>(All non-student teaching coursework and tests must be successfully completed before this semester for enrollment in student teaching.)</i>	
THEA 4730 <i>Studio Theatre II</i>	1		
THEA 4984 <i>Methods of Teaching Speech &amp; Theatre</i>	2		
<b>Semester Total</b>	<b>13</b>		

**Speech Communication and Theatre Major, B.S. in Ed. Degree - 121 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 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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>
BIOL 1003 or BIOL 1003/1006 Intro. to the Sciences: Ecology*(GE)	3-4
CD 1000 Introduction to Communication Disorders**	3
CD 1800 Observation of Clinical Practicum in CD**	1
ENGL 1020 Composition I (GE)***	3
General Education - Mathematics	3
General Education	2
<b>Semester Total</b>	<b>15-16</b>
AE 1400 University Foundations (CD Section)#	1

<b>Freshman Year - Spring Semester</b>	<b>Hrs</b>
CHEM 1103 or 1104 Intro. to the Sciences: Chemistry or PHYS 1103 or 1104 Intro. to the Sciences: Physics*(GE)	3-4
CD 2301 American Phonetics**	3
ENGL 1030 Composition II or CTE 3060 Technical Writing (GE)***	3
General Education	6
<b>Semester Total</b>	<b>15-16</b>

<b>Sophomore Year - Fall Semester</b>	<b>Hrs</b>
CD 3301 Anatomy & Physiology of Speech & Swallowing**	2
COMM 1000 Public Speaking (GE)	3
PSY 1100 General Psychology (GE)	3
General Education - Literature	3
General Education	3
<b>Semester Total</b>	<b>14</b>

<b>Sophomore Year - Spring Semester</b>	<b>Hrs</b>
CD 3304 Speech Science	3
General Education	3
Free Choice Elective#	9
<b>Semester Total</b>	<b>15</b>

<b>Junior Year - Fall Semester</b>	<b>Hrs</b>
CD 1401 American Sign Language I (GE)	3
CD 4401 Language Development	3
CD 4501 Basic Neuroscience for Speech-Language Path.	2
CD 4504 Introduction to Articulation & Phonological Disorders	3
CD 4701 Introduction to Audiology	3
PSY 3220 Lifespan Development	3
<b>Semester Total</b>	<b>17</b>

<b>Junior Year - Spring Semester</b>	<b>Hrs</b>
AT 1625 CPR/First Aid/AED for Health Care Professional	1
CD 3503 Principles of Clinical Management	3
CD 4505 School-age Issues in Language & Literacy	3
CD 4706 Hearing Measurement	3
Free Choice Electives##	5
<b>Semester Total</b>	<b>15</b>

<b>Senior Year - Fall Semester</b>	<b>Hrs</b>
CD 4102 Counseling Persons with Communication Disorders and Their Families	2
CD 4103 Introduction to Evidence Based Practice in Communication Disorders	2
CD 4510 Multicultural Issues in Communication Disorders	2
CD 4708 Aural Rehabilitation	3
CD 4802 Undergraduate Clinical Practicum I	1
EDSP 4700 IEP and the Law	3
<b>Semester Total</b>	<b>13</b>

<b>Senior Year - Spring Semester</b>	<b>Hrs</b>
CD 4512 Best Practices in Early Childhood Intervention	3
CD 4803 Undergraduate Clinical Practicum II <sup>10</sup>	1
PSY 4520 Statistics for the Behavioral Sciences	3
Free Choice Electives##	8
<b>Semester Total</b>	<b>15</b>

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

- \*Students may choose from the following three combinations of courses to meet their science requirements: (1) BIOL 1003/1006 and CHEM 1103 or PHYS 1103; (2) BIOL 1003 and CHEM 1104; or (3) BIOL 1003 and PHYS 1104. Students must take either BIOL 1003 or BIOL 1003/1006 and must take one laboratory class. Depending on the biology choice made (lab or no lab), students will take either CHEM or PHYS with or without a laboratory.
- \*\*Students must obtain a grade of C or better and a 3.20 GPA or better in the following CD courses: CD 1000, 1800, 2301, and 3301.
- \*\*\*Students must obtain a grade of C or better in ENGL 1020 and ENGL 1030 or 1080 or CTE 3060.
- #AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- ##The number of free choice electives required will depend on selections made in the major and general education.
- <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 obtain a grade of C or better and a 3.20 GPA in all CD courses.
- Students must also maintain a minimum cumulative GPA of 3.20.
- Students must contact the Undergraduate Advisor in the Communication Disorders program for admission into the program.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, [testingservices@ucmo.edu](mailto:testingservices@ucmo.edu)) for more information.

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

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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</b> - Fall Semester	<b>Hrs</b>	<b>Freshman Year</b> - Spring Semester (apply to major)	<b>Hrs</b>
CIS 1600 Business Information Management (GE)	3	ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE)	3
ENGL 1020 Composition I (GE)	3	PE 1206 Fitness for a Global Community (GE)	3
General Education - Mathematics	3	General Education	6
General Education	6	Free Choice Elective**	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>
AE 1400 University Foundations*	1		

<b>Sophomore Year</b> - Fall Semester	<b>Hrs</b>	<b>Sophomore Year</b> - Spring Semester	<b>Hrs</b>
ECON 1010 Principles of Macroeconomics (GE)	3	ECON 2033 Economic Applications in Sports	3
PE 2472 Communicating Ideas on Sport (GE)	3	General Education	3
SM 2100 Introduction to Sport Management	3	Free Choice Electives**	6
General Education - Literature	3	<b>Semester Total</b>	<b>12</b>
General Education - Science with Laboratory	4		
<b>Semester Total</b>	<b>16</b>		

<b>Junior Year</b> - Fall Semester	<b>Hrs</b>	<b>Junior Year</b> - Spring Semester	<b>Hrs</b>
MGT 3315 Management of Organizations	3	PE 4740 Legal Liability in Fitness/Wellness, Physical Education, Recreation and Sport Setting	2
MKT 3405 Marketing Policy	3	SM 4200 Applied Sport Marketing	3
SM 3300 Leisure and Sport	3	SM 4300 Recreational Sport Management	3
SM 4700 Sport Facility Management	3	Free Choice Electives**	6
Free Choice Elective**	3	<b>Semester Total</b>	<b>14</b>
<b>Semester Total</b>	<b>15</b>		

<b>Senior Year</b> - Fall Semester	<b>Hrs</b>	<b>Senior Year</b> - Spring Semester	<b>Hrs</b>
SM 4000 Seminar in Sport Management	3	SM 4220 Sport Sponsorship and Retention	3
SM 4210 Sport and Media	3	SM 4500 Sport Leadership	3
SM 4400 Sport Communication	3	SM 4720 Managing Sport Events	3
Free Choice Electives**	6	Free Choice Elective**	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>12</b>

<b>Senior Year</b> - Summer Semester	<b>Hrs</b>
SM 4980 Internship <sup>10</sup>	6
<b>Semester Total</b>	<b>6</b>

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

- \*AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- \*\*This major requires 21-27 hours of free choice electives. The number of electives needed will depend on the number of internship hours completed and if a minor is pursued.
- <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 course can be repeated for an additional 6 hours of credit in a separate semester.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, [testingservices@ucmo.edu](mailto:testingservices@ucmo.edu)) for more information.

**Studio Art Major (Area 1: Sculpture), B.F.A. Degree (47-263)**

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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 - Mathematics	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 - Literature	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 (Area 1: Sculpture), 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 *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.

**Studio Art Major (Area 2: Painting), B.F.A. Degree (47-263)**

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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 - Mathematics	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 - Literature	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 (Area 2: Painting), 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 *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.

**Studio Art Major (Area 3: Ceramics), B.F.A. Degree (47-263)**

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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	ART 2412 Ceramics I	3
ENGL 1020 Composition I (GE)	3	ENGL 1030 Composition II or CTE 3060 Tech. Writing (GE)	3
General Education - Mathematics	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 2420 Sculpture I	3
ART 3209 Figure Construction	3	ART 2710 Printmaking I	3
ART 3412 Ceramics II	3	ART 3412 Ceramics II	3
General Education - Literature	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 2511 Painting I	3	ART 4412 Ceramics 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 3412 Ceramics 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 4412 Ceramics III	3	ART 4020 Studio Seminar	3
ART Electives*	6	ART 4221 Art Theory and Criticism <sup>10</sup>	3
General Education	6	ART 4412 Ceramics III	3
<b>Semester Total</b>	<b>15</b>	General Education	6
		<b>Semester Total</b>	<b>15</b>

**Studio Art Major (Area 3: Ceramics), 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 *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.

**Studio Art Major (Area 4: Printmaking), B.F.A. Degree (47-263)**

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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 - Mathematics	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 - Literature	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 (Area 4: Printmaking), 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 *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.



## Studio Art Major (Area 5: Illustration), B.F.A. Degree (47-263)

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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</b> - Fall Semester	<b>Hrs</b>	<b>Freshman Year</b> - Spring Semester	<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 - Mathematics	3	General Education	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>
<b>Sophomore Year</b> - Fall Semester	<b>Hrs</b>	<b>Sophomore Year</b> - Spring Semester	<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 - Literature	3	General Education	6
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>18</b>
<b>Junior Year</b> - Fall Semester	<b>Hrs</b>	<b>Junior Year</b> - Spring Semester	<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</b> - Fall Semester	<b>Hrs</b>	<b>Senior Year</b> - Spring Semester	<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 (Area 5: Illustration), 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 *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.

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

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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 - Mathematics	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 - Literature	3	General Education	9
General Education - Science with Laboratory	4	<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>
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 *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.

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

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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 (N/A)	1
CSIS 110 Technology and Information Mgmt. (BTE 1210) (GE)3	
MATH 110 Intermediate Algebra (MATH 1101) or MATH 120 College Algebra (MATH 1111) (GE - MATH 120 only)	3
<b>Semester Total</b>	<b>7</b>

<b>High School Junior Year/MCC - Fall Semester</b>	<b>Hrs</b>
CHAOS II (STA Course) (CSIS 111 & 151 at MCC)	6
Networking I (STA Course) (CSIS 161 at MCC)+	3
MATH 120 College Algebra (MATH 1111) or higher++	3
<b>Semester Total</b>	<b>12</b>

<b>High School Junior Year/MCC - Spring Semester</b>	<b>Hrs</b>
CSIS 115 Computer Concepts and Applications (CIS 1600)	3
Networking II (STA Course) (CSIS 152 & 172 at MCC/NET 2060 & 2061 at UCM)^	6
<b>Semester Total</b>	<b>9</b>

<b>High School Senior Year/MCC - Summer Semester</b>	<b>Hrs</b>
BSAD 120 Organizational Behavior (N/A)	3
CSIS 170 Principles of Information Assurance (N/A) (Non-credit Internship)	0
<b>Semester Total</b>	<b>6</b>

<b>High School Senior Year/MCC - Fall Semester</b>	<b>Hrs</b>
CSIS 174 Visualization and Cloud Computing Concepts	4
CSIS 178 Internetworking with TCP/IP	3
ENGL 101 Composition and Reading I (ENGL 1020) (GE)	3
General Education - Science with Laboratory (Non-credit Internship)	4 0
<b>Semester Total</b>	<b>14</b>

<b>High School Senior Year/MCC - Spring Semester</b>	<b>Hrs</b>
COMM 102 Fund. of Speech (COMM 1000) (GE)+++	3
CSIS 123 Programming Fundamentals (CS 1100)***	3
CSIS 143 Database Design and Management (CIS 3650)	3
CSIS 290A Field Competencies and Employment Strat. (N/A)	3
ENGL 215 Technical Writing (CTE 3060) (GE) (Non-credit Internship)	3 0
<b>Semester Total</b>	<b>15</b>
(graduate from high school this semester)	

<b>MCC/UCM Junior Year - Summer Semester</b>	<b>Hrs</b>
BSAD 127 Management Internship I (N/A)	3
General Education - History* (Non-credit Internship)	3 0
<b>Semester Total</b>	<b>6</b>
(graduate from MCC with A.A.S. degree this semester)	

<b>UCM Junior Year - Fall Semester</b>	<b>Hrs</b>
CIS 3665 Data Communication Technologies**	3
General Education - Literature (Non-credit Internship)	3 0
<b>Semester Total</b>	<b>6</b>

<b>UCM Junior Year - Spring Semester</b>	<b>Hrs</b>
CIS 4680 Data Resource Management#	3
CIS 4685 Network Planning, Design and Security**#	3
NET 3068 Network Security I	4
General Education (Non-credit Internship)	3 0
<b>Semester Total</b>	<b>13</b>

<b>UCM Senior Year - Summer Semester</b>	<b>Hrs</b>
CIS 4610 Special Projects	3
SOT 3022 Internship in Technology	3
General Education	6
<b>Semester Total</b>	<b>12</b>

<b>UCM Senior Year - Fall Semester</b>	<b>Hrs</b>
CIS 4665 Data Communication & Distributed Data Processing	3
NET 4060 Advanced Network Routing**	3
General Education (Non-credit Internship)	6 0
<b>Semester Total</b>	<b>12</b>

<b>UCM Senior Year - Spring Semester</b>	<b>Hrs</b>
NET 4062 Advanced Switching**	3
NET 4063 Network Support** <sup>10</sup>	3
General Education (Non-credit Internship)	3 0
<b>Semester Total</b>	<b>9</b>

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

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**General Information**

- This program is offered in cooperation with the Lee's Summit R-7 School District and the Metropolitan Community College (MCC). Students begin the program during their junior year in high school and will earn an AAS degree from MCC-BTC with a major in Engineering Technology: Architecture Emphasis.
- Students must be accepted into this program. Go to [www.ucmo.edu/mic](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 *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.

**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.

## Technology Management, B.S. Degree (43-894)

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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>
COMM 1000 Public Speaking (GE)	3	CADD 1105 Basic AutoCAD	1
ENGL 1020 Composition I (GE)	3	CADD 1110 Fundamentals of Drafting	3
MATH 1111 College Algebra (GE)	3	CADD 1170 Introduction to Computer-Aided Drafting	2
General Education	6	General Education	9
<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>
ACCT 2101 Principles of Financial Accounting	3	ECON 1010 Principles of Macroeconomics (GE)	3
CHEM 1103 Introduction to the Sciences: Chemistry (GE)	3	PHYS 1104 Introduction to the Sciences: Physics (GE)	4
CTE 3060 Technical Writing (GE)	3	Departmentally Approved Electives	6
Departmentally Approved Electives	6	General Education - Literature	3
<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>
ENGT 3520 Engineering Economy	3	INDM 4260 Organizational Dynamics	3
SAFE 3070 Safety Leadership	3	SOT 4000 Special Projects in Technology	3
Departmentally Approved Electives	7	Departmentally Approved Electives	8
General Education - Managing Information	2-3	<b>Semester Total</b>	<b>14</b>
<b>Semester Total</b>	<b>15-16</b>		

<b>Junior-to-Senior 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>
INDM 4210 Industrial Management	3	CTE 3116 Creative Thinking for a Better World	3
INDM 4250 Project Management <sup>10</sup>	3	ENGT 4580 Quality Systems Engineering	3
Departmentally Approved Electives	9	FAME 3442 Sustainability for Consumer Products (GE)	3
<b>Semester Total</b>	<b>15</b>	INDM 4015 Legal Aspects of Industry	3
		Departmentally Approved Electives	3
		<b>Semester Total</b>	<b>15</b>

## Technology Management, B.S. Degree - 120 hours

- \*This major requires 39 hours of Departmentally Approved Electives. See program coordinator for suggestions.
- <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 *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.

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

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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
THEA 1400 Script Analysis	3	THEA 1100 Oral Interpretation (GE)	3
THEA 1500 Acting	3	THEA 1600 Stagecraft	3
Modern Language Requirement (GE)*	3	Modern Language Requirement*	3
General Education - Mathematics	3	General Education	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>
THEA 1510 Stage Movement	3	THEA 1520 Stage Voice	3
THEA 2610 Design Fundamentals	3	General Education	12
Modern Language Requirement*	3	<b>Semester Total</b>	<b>15</b>
General Education - Literature	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>
THEA 3600 Scene Design, THEA 3610 Costume Design, or THEA 3620 Lighting Design	3	Minor Coursework	6
THEA 3700 Directing	3	General Education	6
Minor Coursework	6	Free Choice Electives	3
Free Choice Elective	3	<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>
THEA 3630 Studio Theatre I	1	THEA 4420 Literature & History of the Theatre II or THEA 4440 Literature & History of the Theatre III	3
THEA 4400 Literature & History of the Theatre <sup>10</sup>	3	THEA 4730 Studio Theatre II	1
Theatre Elective	3	Minor Coursework	6
Minor Coursework	6	Free Choice Electives	5
Free Choice Electives	2	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>15</b>		

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

- \*Refer to the Bachelor's Degree Requirements section for fulfillment options of the BA Modern Language requirements. This plan is based on nine hours of modern language.
- \*\*AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- <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 24-hour minor.
- This major does not build in the minimum number (30) of upper-level credit hours required for graduation. Be sure to include upper-level choices (3000/4000) in your major electives, minor, general education, and/or free choice electives.
- To satisfy the General Education Assessment (GEA) Policy, students must take the GEA *after* they earn 45 credit hours but *before* earning 75 credit hours. Transfer students who have more than 45 hours earned should take the exam during their second semester at UCM. Students must achieve a passing score of 425 to meet graduation requirements. Students may register for the GEA through MyCentral. Contact UCM Testing Services (HUM 216, 660-543-4919, [testingservices@ucmo.edu](mailto:testingservices@ucmo.edu)) for more information.

**Theatre Major (Area 1: Performance), B.F.A. Degree (47-366)**

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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
THEA 1400 Script Analysis	3	THEA 1100 Oral Interpretation (GE)	3
THEA 1500 Acting	3	THEA 1520 Stage Voice	3
THEA 1600 Stagecraft	3	THEA 1610 Stage Makeup	3
General Education - Mathematics	3	General Education	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>
THEA 1510 Stage Movement	3	DANC 1110 Modern Dance I or 1120 Ballet Dance I	1
THEA 2610 Design Fundamentals	3	DANC 1140 Jazz Dance I	1
Design/Technology Elective	3	THEA 3700 Directing	3
General Education - Literature	3	General Education	9
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>
THEA 3500 Advanced Scene Study	3	THEA 4300 Professional Practices	1
THEA 4310 Principles of Theatre Management	3	THEA 4420 Literature & History of the Theatre II or	
THEA 4300 Professional Practices	1	THEA 4440 Literature & History of the Theatre III	3
THEA 4400 Literature & History of the Theatre <sup>10</sup>	3	THEA 4500 Advanced Acting	3
General Education	6	Design/Technology Elective	3
<b>Semester Total</b>	<b>16</b>	General Education	3
		Free Choice Elective	2
		<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>
THEA 4300 Professional Practices	1	THEA 4710 Advanced Directing	3
THEA 4510 Period Acting Styles	3	THEA 4730 Studio Theatre II	1
Design/Technology Elective	3	THEA 4910 Senior Showcase	1
General Education	3	Free Choice Electives	10
Free Choice Electives	5	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>15</b>		

**Theatre Major (Area 1: Performance), B.F.A. Degree - 120 hours**

- \*AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- <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 *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.

**Theatre Major (Area 2: Design/Technology), B.F.A. Degree (47-366)**

This guide is valid for the 2016 Undergraduate Catalog only and is subject to change. This guide is a recommendation only and your actual program may vary. The time it takes to complete a degree and the sequence in which courses are taken will depend 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
THEA 1400 Script Analysis	3	THEA 1100 Oral Interpretation (GE)	3
THEA 1500 Acting	3	THEA 1610 Stage Makeup	3
THEA 1600 Stagecraft	3	THEA 2630 Drafting for the Theatre	3
General Education - Mathematics	3	General Education	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>
THEA 2610 Design Fundamentals	3	THEA 3700 Directing	3
THEA 2620 Costume Technology	3	Performance Elective	3
Performance Elective	3	General Education	9
General Education - Literature	3	<b>Semester Total</b>	<b>15</b>
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>
THEA 3610 Costume Design	3	THEA 3600 Scene Design	3
THEA 4310 Principles of Theatre Management	3	THEA 3630 Studio Theatre I	1
THEA 4400 Literature & History of the Theatre <sup>10</sup>	3	THEA 4300 Professional Practices	1
THEA 4600 Advanced Technical Theatre	3	Performance Elective	3
General Education	3	General Education	6
<b>Semester Total</b>	<b>15</b>	Free Choice Electives	2
		<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>
THEA 4300 Professional Practices	1	THEA 3620 Lighting Design	3
THEA 4610 Advanced Lighting and Sound	3	THEA 4300 Professional Practices	1
THEA 4620 Period Research	3	THEA 4420 Literature & History of the Theatre II or THEA 4440 Literature & History of the Theatre III	3
THEA 4910 Senior Showcase	1	Free Choice Electives	8
General Education	3	<b>Semester Total</b>	<b>15</b>
Free Choice Electives	3		
<b>Semester Total</b>	<b>14</b>		

**Theatre Major (Area 2: Design/Technology), B.F.A. Degree - 120 hours**

- \*AE 1400 is a free choice elective and is highly recommended for academic success. If AE 1400 is chosen, 1 less hour of free choice electives will be needed.
- <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 *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.