

# UNIVERSITY OF CENTRAL MISSOURI

## Metropolitan Community College Associate of Arts

to

### UCM Bachelor of Science in Actuarial Science and Statistics

#### YEARS 1 AND 2 AT Metropolitan Community College

Complete the Associate in Arts (A.A.) degree and include the following courses in the A.A. course of study: UCM Equivalencies in parenthesis

	<b>Minimum Hours</b>
<b>Communications</b>	<b>9</b>
Choose 9 hours in above area from the MCKC AA Catalog	
<b>Mathematics</b>	<b>3</b>
If planning to take MATH 180, MATH 190, and MATH 210 as transfer credit one of the following classes must be taken to fulfill an MCKC prerequisite requirement.	
MATH 130 Trigonometry	3 -or-
MATH 150 PreCalculus	5
<b>American Institutions</b>	<b>3</b>
Choose 3 hours in above area from the MCKC AA Catalog	
<b>Sciences</b>	<b>7</b>
Choose 7 hours in above area from the MCKC AA Catalog	
<b>Western Civilization</b>	<b>3</b>
Choose 3 hours in above area from the MCKC AA Catalog	
<b>Social Sciences</b>	<b>3</b>
<b>For Option 1 Only:</b>	
ECON 210 Macroeconomics (ECON 1010)	3
<b>Humanities</b>	<b>3</b>
Choose 3 hours in above area from the MCKC AA Catalog	
<b>Humanities Appreciation</b>	<b>3</b>
Choose 3 hours in above area from the MCKC AA Catalog	
<b>Common Core Electives</b>	<b>3-8</b>
MATH 115 Statistics (ACST 1300)**	3
MATH 180 Analytic Geometry and Cal I (MATH 1151)**	5
<i>It is recommended that MATH 180 be completed at MCKC to prevent a delay in program completion by year 4 at UCM.</i>	
<b>General Degree Requirements</b>	<b>7</b>
CSIS 123 Programming Fundamentals (CS 1100)**	3
COLL 100 First Year Seminar	1
Global Diversity Requirement: Choose from MCKC AA Catalog	3
<b>Electives</b>	<b>*11</b>
MATH 190 Analytic Geometry and Cal II (MATH 1152)**	5
MATH 210 Analytic Geometry and Cal III (MATH 2153)**	*5
<b>For Option 2 Only:</b>	
CSIS 222 Object-Oriented Prog with Java (CS 1110)	3
Free Electives	0-1

#### YEARS 3 AND 4 AT UCM

	<b>Minimum Hours</b>
<b>Core Requirements</b>	<b>21</b>
ACST 3311 Introduction to Mathematical Statistics	3
ACST 4312 Probability Models	3
ACST 4321 Applied Statistics I	3
ACST 4322 Applied Statistics II	3
ACST 4530 Statistical Modeling	3
ACST 4645 Senior Projects in Actuarial Sci. & Statistics	3
MATH 2410 Discrete Mathematics	3
<b>Option: 1 Actuarial Science</b>	<b>32</b>
ACST 4501 Actuarial Exam Review Problem Set I	1
ACST 4510 Mathematics of Finance	3
ACST 4511 Actuarial Exam Review Problem Set II	1
ACST 4520 Life Contingencies I	3
CS 3800 Applications Development with VB.NET	3
ECON 3010 Intermediate Macroeconomics	3
FIN 3861 Financial Management I	3
FIN 4803 Principles of Insurance	3
FIN 4817 Managing Financial Derivatives	3
<b>Electives from the following</b>	<b>9</b>
ACST 4323 Statistical Aspects of Experimental Design	3
ACST 4331 SAS Programing for Statistical Analysis	3
ECON 3030 Intermediate Microeconomics	3
FIN 3850 Principles of Finance	3
MATH 3710 Linear Algebra	3
MATH 3151 Differential Equations	3
<b>Option 2: Statistics</b>	<b>26-27</b>
ACST 4323 Statistical Aspects of Experimental Design	3
ACST 4331 SAS Programing for Statistical Analysis	3
MATH 3151 Differential Equations	3
MATH 3710 Linear Algebra	3
<b>Electives from the following</b>	<b>14-15</b>
ACST 4501 Actuarial Exam Review-Problem Set I	1
ACST 4510 Mathematics of Finance	3
ACST 4511 Actuarial Exam Review-Problem Set II	1
ACST 4520 Life Contingencies I	3
CS 2300 Data Structures	3
CS 3800 Applications Development with VB.NET	3
CS 4600 Database Theory & Applications	3
MATH 4150 Advanced Calculus I	3
<b>Free Electives</b>	<b>12-15</b>

\* Exact hours may vary depending on transfer coursework

\*\*Course fulfills a major requirement at UCM and if not taken as part of AA must be taken at UCM

This guide is based on the UCM 2016 Undergraduate Catalog and is subject to change.

**Minimum Hours Required for A.A.: 60**

**Minimum Hours Required for B.S.: 120**

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### VALIDITY OF THIS TRANSFER GUIDE

This guide is based on the UCM 2016 Undergraduate Catalog and is subject to change. This guide is a recommendation only and your actual program may vary. Time to degree completion and course sequencing will depend on any credits transferred to UCM and on planned placement in math, reading, and writing. See the current UCM Undergraduate Catalog and MCKC Course Catalog for a complete listing of academic policies, curriculum, prerequisites, and course descriptions.

### GENERAL EDUCATION REQUIREMENTS

Students who hold an Associate in Arts Degree from MCKC or have met the Missouri 42-hour General Education Core requirements are considered to have fulfilled all UCM General Education requirements, except specific general education classes required by this major. Lists of General Education Requirements can be found in the UCM Catalog.

**For those students with an associate degree other than the Associate of Arts or who have not completed the A.A. degree, transfer courses are evaluated on a course-by-course basis.**

### REQUIREMENTS FOR THIS MAJOR

- Minimum of 120 hours
- Minimum of 30 hours of upper-level credit (3000/4000 level). Courses taken at a two-year college MAY be articulated for an upper-level course but WILL NOT count towards upper-level hour requirements.
- Minimum of 12 hours of upper-level credit (3000/4000 level) in major
- No minor is required for this degree.
- No modern language is required for this degree.

### RESIDENCY REQUIREMENTS FOR A DEGREE AT UCM

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

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

### GPA REQUIRED FOR GRADUATION

Students must achieve a minimum GPA of 2.00 in all GPAs to qualify for graduation. This includes cumulative GPA, UCM GPA, major GPA, and minor GPA (if applicable). Some degrees have additional GPA requirements.

### DUAL ADMISSION

Students are encouraged to apply for dual admission during their first semester at MCKC to coordinate associate degree completion with degree requirements at UCM. To learn more visit [www.ucmo.edu/undergrad/dualadmissions.cfm](http://www.ucmo.edu/undergrad/dualadmissions.cfm).

### GENERAL EDUCATION ASSESSMENT

All UCM students are required to pass a General Education Assessment (GEA). Students transferring in more than 45 hours are required to take the test during their first semester at UCM. Testing Services can be contacted by phone at (660) 543-4919 or by e-mail at [testingservices@ucmo.edu](mailto:testingservices@ucmo.edu). To learn more visit [www.ucmo.edu/assessment/documents/gened\\_policy.pdf](http://www.ucmo.edu/assessment/documents/gened_policy.pdf)

### CATALOGS

Metropolitan Community College catalog: [http://www.mckc.edu/PDF/MCC\\_Online\\_Catalog\\_2016-2017.pdf](http://www.mckc.edu/PDF/MCC_Online_Catalog_2016-2017.pdf)

UCM catalog: [www.ucmo.edu/catalogs](http://www.ucmo.edu/catalogs)

### TRANSFER WORK

Arrange for all transfer work to be posted at UCM at the time of application. An official transcript must be received at UCM directly from each school attended. Individual transfer equivalencies can be found online at [www.ucmo.edu/corequiv](http://www.ucmo.edu/corequiv). Transcripts can be sent to: University of Central Missouri, Office of Admissions, Ward Edwards 1400, Warrensburg, MO 64093

### UCM TRANSFER ADVISORS

UCM advisors for programs in the College of Health, Science, and Technology (CHST) are located in the CHST Advising Center located in Administration 105. Contact your advisor by calling (660)543-4554 or by email [chstadvising@ucmo.edu](mailto:chstadvising@ucmo.edu).

### UCM DEPARTMENT CONTACT

The School of Computer Science and Mathematics is located in W.C. Morris room 222. You can contact them by telephone at (660) 543-4930. To learn more visit [www.ucmo.edu/cs-math](http://www.ucmo.edu/cs-math).

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