Option 2: Computer Science

Choose 3-9 electives from the following

- ACST 3311 Intro. to Mathematical Statistics 3
- MATH 2153 Calculus & Analytic Geometry III (MATH 210) 3
- MATH 2221 Foundations of Geometry 3
- MATH 3151 Differential Equations (MATH 230) 3
- MATH 3710 Linear Algebra 3
- MATH 4450 Introduction to Graph Theory 3

Choose 0-3 electives from the following

- BIOL 1110 Principles of Biology (BIOL 101) 3
- BIOL 2010 Human Biology 3
- BIOL 2510 Basic Genetics (BIOL 214) 3
- BIOL 4102 Evolution 3
- EASC 3010 Environmental Geology (EASC 3010) 3
- EASC 3112 Astronomy (PHYS 107) 3
- EASC 3114 Meteorology (GEOG 110) 3

Choose 8-14 electives from the following

- BIOL 1111 Plant Biology (BIOL 104) 4
- BIOL 1112 Animal Biology (BIOL 106) 4
- CHEM 1131 General Chemistry I (CHEM 111) 5
- CHEM 1132 General Chemistry II (CHEM 112) 5
- EASC 1004 Introduction to Geology (GEOG 101) 4
- EASC 1114 Weather & Climate 4
- EASC 2100 Engineering Geology 4
- EASC 2200 Historical Geology (GEOG 102) 4
- PHYS 1101 College Physics I (PHYS 130) 4-or-
- PHYS 2121 University Physics I (PHYS 220) 5
- PHYS 1102 College Physics II (PHYS 131) 4-or-
- PHYS 2122 University Physics II (PHYS 221) 5

Choose 3 electives from the following

- CS 3110 Appl. Prog. In C# & .NET (CSIS 265) 3
- CS 3130 Secure Programming 3
- CS 3300 Introduction to Cryptography 3
- CS 3800 Applications Dev. In VB.NET 3
- CS 3810 Introduction to Game Design 3
- CS 4110 Mobile App Programming with Android 3
- CS 4120 Adv. Applications Prog. In Java 3
- CS 4130 Server Side Web Programming 3
- CS 4510 Intro. to Distributed Systems 3
- CS 4610 Intro. to Cloud Computing 3
- CS 4620 Big Data Systems 3
- CS 4630 Data Mining 3
- CS 4700 Artificial Intelligence 3
- CS 4710 Intro. to Machine Learning 3
- CS 4800 Computer Networking 3
- CS 4810 Computer Graphics 3
- CS 4820 Computer Security 3
- CS 4930 Software Testing 3

Minimum Hours Required for B.S.: 120
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 MCC 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 MCC 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 MCC to coordinate associate degree completion with degree requirements at UCM. To learn more visit 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 email at testingservices@ucmo.edu. A minimum score of 425 is needed for consideration based on a scaled score of 400-500. To learn more visit www.ucmo.edu/assessment/documents/gened_policy.pdf

CATALOGS
MCC catalog: http://www.mcckc.edu/catalog/Catalog1415.pdf
UCM catalog: 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. Transcripts can be sent to: University of Central Missouri, Office of Admissions, Ward Edwards 1400, Warrensburg, MO 64093

UCM ACADEMIC 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.

UCM DEPARTMENT CONTACT
The Department of Mathematics and Computer Science, located in the W.C. Morris Building, Room 222. Please contact the department by telephone at (660) 543-4931. To learn more visit www.ucmo.edu/math-cs or contact Belinda Copus, copus@ucmo.edu.