

UNIVERSITY OF CENTRAL MISSOURI

Metropolitan Community College Associate of Arts

to

UCM Bachelor of Science in Computer Science: Option 1

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

	Minimum Hours
Communications	9
COMM 100 Fundamentals of Speech (COMM 1000)**	3
ENGL 101 Composition and Reading I	3
ENGL 102 Composition and Reading II	3
Mathematics	3
MATH 120 College Algebra (MATH 1111) or higher	3
American Institutions	3
Choose 3 hours in above area from the MCKC AA Catalog	
Sciences	7
Choose 7 hours in above area from the MCKC AA Catalog	
Western Civilization	3
Choose 3 hours in above area from the MCKC AA Catalog	
Social Sciences	3
Choose 3 hours in above area from the MCKC AA Catalog	
Humanities	3
Choose 3 hours in above area from the MCKC AA Catalog	
Humanities Appreciation	3
Choose 3 hours in above area from the MCKC AA Catalog	
Common Core Electives	3-8
MATH 115 Statistics (ACST 1300)**	3
Choose 0-5 hours in above area from the MCKC AA Catalog	
General Degree Requirements	7
CSIS 123 Programming Fundamentals (CS 1100)**	3
COLL 100 First Year Seminar	1
Global Diversity Requirement: Choose from the MCKC AA Catalog	3
Electives	*11
**Course fulfills a major requirement at UCM and if not taken as part of AA must be taken at UCM	
ENGL 215 Technical Writing (CTE 3060)**	3
CSIS 115 Computer Concepts and Applications	3
CSIS 143 Database Design and Management (CS 4600)**	3
CSIS 222 Object-Oriented Programming with Java (CS 1110)**	3
CSIS 250 Assembly Language Programming (CS 2200)**	3
MATH 141 Discrete Structures for CS I (CS 2400)**	3

Minimum Hours Required for A.A.: 60

YEARS 3 AND 4 AT UCM

	Minimum Hours
Major Requirements	*24
CS 2300 Data Structures	3
CS 3100 Programming Languages	3
CS 3200 Computer Architecture	3
CS 3500 C & UNIX Environment	3
CS 4300 Algorithm Design & Analysis	3
CS 4500 Operating Systems	3
CS 4910 Software Engineering	3
CS 4920 Senior Project	3
Option 1: Software Design	*9-18
Electives from the following	9-18
CS 3110 Appl. Prog. in C# & .NET	3
CS 3130 Secure Programming	3
CS 3800 Applications Dev. with VB.NET	3
CS 4110 Mobile Applications Prog. with Android	3
CS 4120 Adv. Applications Prog. in Java	3
CS 4930 Software Testing	3
Electives from the following	9-18
CS 3120 Client Side Web Programming	3
CS 3300 Introduction to Cryptography	3
CS 3810 Introduction to Game Design	3
CS 4000 Special Problems CS	3
CS 4020 Internship in CS	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 4800 Computer Networking	3
CS 4810 Computer Graphics	3
CS 4820 Intro. to Information Assurance	3
CS 4830 Game Development	3
Free Electives	*12-18
General Education Requirements	*6
CS 1000 Computers and Modern Society	3
MATH 1131 Applied Calculus	-or-
<i>Course can be taken at MCKC as MATH 175</i>	
CS 1030 Introduction to Computer Programming	3

* Exact hours may vary depending on transfer coursework
This guide is based on the UCM 2016 Undergraduate Catalog and is subject to change.

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.

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. To learn more visit www.ucmo.edu/assessment/documents/gened_policy.pdf

CATALOGS

Metropolitan Community College catalog: http://www.mckc.edu/PDF/MCC_Online_Catalog_2016-2017.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 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.

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.
