

UNIVERSITY OF CENTRAL MISSOURI

MCC A.A. to UCM B.S. in Computer Science: Computer Science

YEARS 1 AND 2 AT MCC - (UCM Equivalencies in parenthesis)		YEARS 3 AND 4 AT UCM	
COMMUNICATIONS – 9 Credit Hours		MAJOR REQUIREMENTS - 39 Credit Hours	
ENGL 101 Composition and Reading I (ENGL 1020)	3	CS 3100 Programming Languages	3
ENGL 102 Composition and Reading II (ENGL 1030)	3	CS 3200 Computer Architecture	3
**COMM 100 Fundamentals of Speech (COMM 1000)	3	CS 3910 Software Engineering	3
MATHEMATICS – 3 Credit Hours		CS 4300 Algorithm Design & Analysis	3
**MATH 180 Analytic Geometry and Calculus I (MATH 1151)	5	CS 4500 Operating Systems	3
AMERICAN INSTITUTIONS – 3 Credit Hours		CS 4820 Introduction to Information Assurance	3
HIST 120 (HIST 1350), 121 (HIST 1351), POLS 136 (POLS 1510) 3		CS 4920 Senior Project	3
or 137 (POLS 2511)			
SCIENCES – 7 Credit Hours		Option 2: Computer Science – 28-29 Credit Hours	
Take two courses, one with lab - (#All courses listed fulfills a part of the UCM required Option 2 Electives)		Minimum 8 credit hours math and 8 credit hours science must be selected in Option 2. Total math and science combined must be at least 22 credit hours.	
Lab Courses – BIOL 101 (BIOL 1110), BIOL 104 (BIOL 1111), BIOL 106 (BIOL 1112), BIOL 214 (BIOL 2510), CHEM 111 (CHEM 1131), CHEM 112 (CHEM 1132), GEOL 102 (EASC 2200), PHYS 130 (PHYS 1101), PHYS 1131 (PHYS 1102), PHYS 220 (PHYS 2121), PHYS 221 (PHYS 2122)		Electives from the following - 3-9 Credit Hours	
Non-Lab Course – PHYS 106 (EASC 3112)		MATH 2153 Calculus & Analytic Geometry III	3
WESTERN CIVILIZATIONS – 3 Credit Hours		MATH 2221 Foundations of Geometry	3
HIST 133 (HIST 1400) or HIST 134 (HIST 1402)	3	MATH 3151 Differential Equations	3
SOCIAL SCIENCES – 3 Credit Hours		MATH 3710 Linear Algebra	3
ANTH 100 (ANTH 1810), ANTH 110 (ANTH 1820), PSYC 140 (PSY 1100), SOCI 160 (SOC 1800), ECON 210 (ECON 1010) or ECON 211 (ECON 1011)	3	MATH 4450 Introduction to Graph Theory	3
HUMANITIES – 3 Credit Hours		ACST 2310 Statistics and Data Analysis or	3
ENGL 218 (GNED 1909), 220 (ENGL 2210), 221 (ENGL 2215), 222 (ENGL 2200), 223 (ENGL 2205), 268 (ENGL 2270), PHIL 100 (PHIL 1000), 200 (PHIL 1400), or 203 (PHIL 2300)	3	ACST 3311 Introduction to Mathematical Statistics	
HUMANITIES APPRECIATION – 3 Credit Hours		Electives from the following - 0-3 Credit Hours	
ART 108 (ART 1800), ART 150 (ART 1815), ART 151 (ART 1825) 3		BIOL 1110 Principles of Biology	3
MUSI 108 (MUS 1210), or THEA 106 (THEA 2400), ARAB, FREN, GERM, CHIN, SIGN, SPAN 101 (SPAN 1601), SPAN 102 (SPAN 1602), SPAN 203 (SPAN 2601), or SPAN 204 (SPAN 2602)		BIOL 2010 Human Biology	3
COMMON CORE ELECTIVES – 8 Credit Hours		BIOL 2510 Basic Genetics	3
Take additional common core electives to reach 42 hours of general education. Offerings available at http://www.mcckc.edu/programs/aa/		BIOL 4102 Evolution	3
GENERAL DEGREE REQUIREMENTS – 7 Credit Hours		EASC 3010 Environmental Geology	3
COLL 100 First Year Seminar	1	EASC 3112 Astronomy	3
Global Diversity	3	Electives from the following - 8-14 Credit Hours	
Course options available at http://www.mcckc.edu/programs/aa/		BIOL 1111 Plant Biology	4
CSIS 115 (CIS 1600) or higher	3	BIOL 1112 Animal Biology	4
ELECTIVES – 11 Credit Hours		CHEM 1131 General Chemistry I	5
**CSIS 123 Programming Fundamentals (CS 1100)	3	CHEM 1132 General Chemistry II	5
**CSIS 143 Database Design and Management (CS 4600)	3	EASC 1004 Introduction to Geology GE	4
**CSIS 152 Linux Operating System (3) AND	6	EASC 1114 Weather and Climate GE	4
**CSIS 223 Object-Oriented Programming (3) (CS 3500)		EASC 2100 Engineering Geology	4
#CSIS 178 Network Systems Security (CS 4840)	3	EASC 2200 Historical Geology	4
**CSIS 222 Object-Oriented Programming with Java (CS 1110)	3	EASC 4300 Earth Resources	4
#CSIS 228 Advanced Web Development (CS 3120)	3	PHYS 110 College Physics I or	4
#CSIS 265 .NET Web Programming with C# (CS 3110)	3	PHYS 212 University Physics I	
**CSIS 271 Data Structures and Algorithm Analysis (CS 2300)	3	PHYS 1102 College Physics II or	4
**MATH 141 Discrete Structures for CS I (CS 2400)	3	PHYS 2122 University Physics II	
**MATH 190 Analytic Geometry and Calculus II (MATH 1152)	5	Electives from the following – 6 Credit Hours	
#MATH 210 Analytic Geometry and Calculus III (MATH 2153)	5	CS 3110 (3)	CS 3120 (3)
#MATH 230 Differential Equations (MATH 3151)	3	CS 3130 (3)	CS 3130 (3)
		CS 3600 (3)	CS 3800 (3)
		CS 3810 (3)	CS 3900 (3)
		CS 4000 (3)	CS 4110 (3)
		CS 4120 (3)	CS 4130 (3)
		CS 4140 (3)	CS 4510 (3)
		CS 4610 (3)	CS 4620 (3)
		CS 4630 (3)	CS 4640 (3)
		CS 4700 (3)	CS 4710 (3)
		CS 4800 (3)	CS 4810 (3)
		CS 4840 (3)	CS 4840 (3)
		CS 4930 (3)	CS 4930 (3)
		CS 4940 (3)	CS 4950 (3)
		FREE ELECTIVES – 12 – 18 Credit Hours	
		GENERAL EDUCATION REQUIREMENTS – 3 Credit Hours	
		CS 1000 Computers and Modern Society	3
		**Course fulfills a major requirement at UCM and if not taken as part of AA must be taken at UCM	
		# Fulfills a part of the required UCM Option 2 Electives	
		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 2017 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 MCCCKC 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.mcckc.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.
