

UNIVERSITY OF CENTRAL MISSOURI

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

YEARS 1 AND 2 AT MCC

(UCM Equivalencies in parenthesis)

COMMUNICATIONS – 9 Credit Hours

ENGL 101 Composition and Reading I (ENGL 1020)	3
ENGL 102 Composition and Reading II (ENGL 1030)	3
**COMM 100 Fundamentals of Speech (COMM 1000)	3

MATHEMATICS – 3 Credit Hours

**MATH 120 College Algebra (MATH 1111)	3
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AMERICAN INSTITUTIONS – 3 Credit Hours

HIST 120 (HIST 1350), 121 (HIST 1351), <i>or</i> POLS 136 (POLS 1510)	3
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SCIENCES – 7 Credit Hours

Take two courses; one course should be taken with a lab.
See a full list of offerings at:

<http://www.mcckc.edu/programs/aa/>

WESTERN CIVILIZATIONS – 3 Credit Hours

HIST 133 (HIST 1400) <i>or</i> HIST 134 (HIST 1402)	3
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SOCIAL SCIENCES – 3 Credit Hours

ANTH 100 (ANTH 1810), ANTH 110 (ANTH 1820), PSYC 140 (PSY 1100), SOCI 160 (SOC 1800), ECON 210 (ECON 1010) <i>or</i> ECON 211 (ECON 1011)	3
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HUMANITIES – 3 Credit Hours

ENGL 218 (GNED 1909), 220 (ENGL 2210), 221 (ENGL 2215), 222 (ENGL 2200), 223 (ENGL 2205), 268 (ENGL 2270), PHIL 100 (PHIL 1000), 148 (PHIL 1410), <i>or</i> 203 (PHIL 2300)	3
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HUMANITIES APPRECIATION – 6 Credit Hours

ART 108 (ART 1800), ART 150 (ART 1815), ART 151 (ART 1825) 3 MUSI 108 (MUS 1210), <i>or</i> THEA 106 (THEA 2400), ARAB, FREN, GERM, CHIN, SIGN, SPAN 101 (SPAN 1601), SPAN 102 (SPAN 1602), SPAN 203 (SPAN 2601), <i>or</i> SPAN 204 (SPAN 2602)	3
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COMMON CORE ELECTIVES – 5 Credit Hours

Take additional common core electives to reach 42 hours of general education. Offerings available at

<http://www.mcckc.edu/programs/aa/>

GENERAL DEGREE REQUIREMENTS – 7 Credit Hours

COLL 100 First Year Seminar	1
Global Diversity	3
Course options available at http://www.mcckc.edu/programs/aa/	
CSIS 115 (CIS 1600) or higher	3

ELECTIVES – 11 Credit Hours

**CSIS 123 Programming Fundamentals (CS 1100)	3
**CSIS 143 Database Design and Management (CS 4600)	3
**CSIS 152 Linux Operating System <i>AND</i> **CSIS 223 Object-Oriented Programming (CS 3500)	6
#CSIS 178 Network Systems Security (CYBR 4840)	3
**CSIS 222 Object-Oriented Programming w/Java (CS 1110)	3
#CSIS 228 Advanced Web Development (CS 3120)	3
**CSIS 271 Data Structures and Algorithm Analysis (CS 2300)	3
#CSIS 279 Web Database Programming (CS4130)	3
**MATH 141 Discrete Structures for CS I (CS 2400)	3

YEARS 3 AND 4 AT UCM

MAJOR REQUIREMENTS - 39 Credit Hours

CS 3100 Programming Languages	3
CS 3200 Computer Organization and Architecture	3
CS 4300 Algorithm Design & Analysis	3
CS 4500 Operating Systems	3
CYBR 4820 Introduction to Information Assurance	3
SE 3910 Software Engineering	3
CS 4920 Senior Project <i>or</i> SE 4920 Senior Project	3

Option 4: Game Development – 30 Credit Hours

ACST 2310 Statistics and Data Analysis	3
CS 1810 Video Game Theory and Analysis	3
CS 2820 Game Programming	3
CS 3810 Introduction to Game Design	3
CS 4830 Game Development	3

Electives from the following

	15
CS 1030 Introduction to Computer Programming	3
CS 3110 Applications Programming in C# and .NET	3
CS 3600 Introduction to Data Visualization	3
CS 3800 Applications Dev. with VB.NET	3
CS 4000 Special Problems CS	3
CS 4020 Internship in CS	3
CS 4110 Mobile App Programming for Android	3
CS 4120 Adv. Applications Programming in Java	3
CS 4510 Introduction to Distributed Systems	3
CS 4610 Introduction 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
CYBR 1500 Command Line Environments	3
CYBR 2500 Computer Systems Administration	3
CYBR 3130 Secure Programming	3
CYBR 3300 Introduction to Cryptography	3
CYBR 4140 Web Applications Security	3
SE 3900 Software Requirements Engineering	3
SE 4930 Software Testing	3
SE 4940 Software Design and Architecture	3
SE 4950 Secure Software Engineering	3
SE 4960 Software Project Management	3

GENERAL EDUCATION REQUIREMENTS – 3 Credit Hours

CS 1000 Computers and Modern Society	3
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**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 4 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 2018 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 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.mcckc.edu/PDF/academiccatalog.pdf>

UCM catalog: www.catalog.ucmo.edu

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 Success Advising Center located in Union 128. Contact your advisor by calling (660)543-4721 or by email success@ucmo.edu.

PROGRAM CONTACT

The School of Computer Science and Mathematics. W.C. Morris room 222. (660) 543-4930. www.ucmo.edu/cs-math.
