

# UNIVERSITY OF CENTRAL MISSOURI

## Metropolitan Community College Associate in Applied Science in Computer Science and Information Systems: Advanced Networking

to

## UCM Bachelor of Science in Networking

### YEARS 1 AND 2 AT Metropolitan Community College

This guide is based on the UCM 2016 Undergraduate Catalog and is subject to change. UCM Equivalencies are in parenthesis. Courses marked \* fulfills a general education or major requirement at UCM. All CSIS course requirements must be completed with a grade of C or higher. Courses marked \*\* indicated a variation in credit hours due to transfer credit.

	<b>Minimum Hours</b>
<b>COLL 100 First-Year Seminar</b>	<b>1</b>
<b>General Education Requirements</b>	<b>18</b>
ENGL 101 Composition and Reading I (ENGL 1020)*	3
HIST 120 U.S. History to 1865 (HIST 1350)*	-or-
HIST 121 U.S. History since 1865 (HIST 1351)*	3
MATH 120 (MATH 1111)*	3
COMM 100 Fundamentals of Speech (COMM 1000)*	3
ENGL 215 Technical Writing (CTE 3060)*	3
PHYS 104 Foundations of Physical Science (PHYS 1104)	4
<b>Specific Program Requirements</b>	<b>12</b>
BSAD 120 Organizational Behavior	3
BSAD 221 Business Communications	3
CSIS 110 Technology and Information Management (BTE 1210)*	3
CSIS 115 Computer Concepts and Applications (CIS 1600)*	3
<b>Specific Emphasis Requirements</b>	<b>34</b>
CSIS 112 Introduction to Networks CCNA 1 (NET 1060)*	**4
CSIS 113 Routing & Switching Essentials CCNA 2 (NET 1061)*	**4
CSIS 152 Linux Operation System (when combined with CSIS 223, course will transfer as CS 3500)	3
CSIS 212 Scaling Networks CCNA 3 (NET 2060)*	**4
CSIS 213 Connecting Networks CCNA 4 (NET 2061)*	**4
CSIS 216 Implementing Cisco IP Routing (NET 4060)*	**4
CSIS 217 Implementing Cisco Switched Networks (NET 4062)*	**4
CSIS 218 Troubleshooting and Maintaining Cisco IP Networks (NET 4063)*	**4
CSIS 290 Field Competencies and Employment Strategies	3

### YEARS 3 AND 4 AT UCM

<b>Major Requirements</b>	<b>*50</b>
NET 1000 Seminar in Networking Tech. (1 hr. twice)	2
NET 1058 Computer Technologies	3
NET 3062 Network Design	3
NET 3065 Converged Voice & Data Networks	3
NET 3068 Network Security I	4
NET 4040 Fundamentals of Network Op. Systems	3
NET 4042 Network Servers & Service	3
NET 4043 Network Servers & Infrastructure	3
CIS 3650 Database Management Systems	3
CS 1100 Computer Programming I	3
CTE 1300 Introduction to Engineering Design	3
CTE 3116 Creative Thinking for a Better World	3
ET 1010 Applied Electricity	4
ET 3017 Programmable Logic Controllers	4
INDM 4250 Project Management	3
SOT 3022 Internship in Technology	3
<b>Free Electives</b>	<b>6</b>
<b>UCM General Education Requirements</b>	<b>42</b>
UCM's General Education Requirements can be found in the 2016 course catalog on pages 49-52.	
<b>Foundational Skills Areas</b>	<b>11</b>
Writing I Requirement - Satisfied by MCC course ENGL 101	3
Writing II Requirement - Satisfied by MCC course ENGL 215	3
Managing Info. Requirement - Satisfied by MCC course CSIS 110	3
Comm. Requirement - Satisfied by MCC course COMM 100	3
<b>Knowledge Area I</b>	<b>9</b>
<b>Literature Requirement</b>	3
<b>Fine Arts Requirement</b>	3
<b>Additional designated courses in Knowledge Area I</b>	3
<b>Knowledge Area II</b>	<b>10</b>
Science w/a Lab Requirement- Satisfied by MCC course PHYS 104	4
Mathematics Requirement - Satisfied by MCC course MATH 120	3
<b>CS 1030 Introduction to Computer Programming</b>	<b>3</b>
<b>Knowledge Area III</b>	<b>9</b>
History Requirement - Satisfied by MCC course HIST 120 or 121	3
<b>Social/Behavioral Sciences Requirement</b>	3
<b>Additional designated courses in Knowledge Area III</b>	3
<b>Engagement</b>	<b>3</b>
CIS 1612 Ethics in Information Technology	3

Minimum Hours Required for A.A.: 65

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 Technology is located in the Grinstead Building, Room 009. To learn more visit [www.ucmo.edu/technology](http://www.ucmo.edu/technology).

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