

# UNIVERSITY OF CENTRAL MISSOURI

## Metropolitan Community College Associate of Arts

to

## UCM Bachelor of Science in Biochemistry

### 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

	<b>Minimum Hours</b>
<b>Communications</b>	<b>9</b>
Choose 9 hours in above area from the MCKC AA Catalog	
<b>Mathematics</b>	<b>3</b>
MATH 130 Trigonometry	3
<b>American Institutions</b>	<b>3</b>
Choose 3 hours in above area from the MCKC AA Catalog	
<b>Sciences</b>	<b>*7</b>
CHEM 111 General College Chemistry I (CHEM 1131)**	5
PHYS 130 General Physics I (PHYS 1101)**	*5-or-
PHYS 220 Engineering Physics I (PHYS 2121)**	5
<b>Western Civilization</b>	<b>3</b>
Choose 3 hours in above area from the MCKC AA Catalog	
<b>Social Sciences</b>	<b>3</b>
Choose 3 hours in above area from the MCKC AA Catalog	
<b>Humanities</b>	<b>3</b>
Choose 3 hours in above area from the MCKC AA Catalog	
<b>Humanities Appreciation</b>	<b>3</b>
Choose 3 hours in above area from the MCKC AA Catalog	
<b>Common Core Electives</b>	<b>3-8</b>
MATH 180 Analytic Geometry and Calculus I (MATH 1151)**	5
<b>General Degree Requirements</b>	<b>7</b>
Choose 7 hour in above area from the MCKC AA Catalog	
<b>Electives</b>	<b>11</b>
<b>If PHYS 130 is chosen to fill MCKC science requirement:</b>	
PHYS 131 General Physics II (PHYS 1102)**	5
OR	
<b>If PHYS 220 is chosen to fill MCKC science requirement:</b>	
PHYS 221 Engineering Physics II (PHYS 2122)**	5
CHEM 112 General College Chemistry II (CHEM 1132)**	5
BIOL 101 General Biology (BIOL 1110)**	*5
Free Electives	0-1

### YEARS 3 AND 4 AT UCM

<b>Major Requirements</b>	<b>*45</b>
CHEM 3212 Quantitative Analysis	4
CHEM 3341 Organic Chemistry I	4
CHEM 3342 Organic Chemistry II	4
CHEM 3421 Intermediate Biochemistry	3
CHEM 3920 Communication Skills in Chem	2
CHEM 4421 Advanced Biochemistry	3
CHEM 4431 Biochemistry Laboratory	2
CHEM 4531 Physical Chem: Thermodynamics & Kinetics	4
BIOL 2512 Cell Biology	3
BIOL 3511 Genetics	4
BIOL 4514 Molecular Biology	3
BIOL 4515 Molecular Technology	3
<b>Electives from the following</b>	<b>6</b>
3 hours must be in CHEM	
CHEM 3111 Intermed Inorganic Chemistry	4
CHEM 4231 Instrumental Analysis	4
CHEM 4313 Advanced Organic Chemistry	3
CHEM 4532 Physical Chemistry: Quantum Mechanics & Spectroscopy	4
CHEM 4910 Research in Chemistry	2-4
BIOL 3611 Microbiology	4
BIOL 4011 Special Problems In Biology	2-4
BIOL 4311 Parasitology	4
BIOL 4516 Hematology / Virology	3 -and-
BIOL 4517 Serology Laboratory	1

### Free Electives \*9-14

\* Exact hours may vary depending on transfer coursework  
 \*\*Course fulfills a major requirement at UCM and if not taken as part of AA must be taken at UCM  
 This guide is based on the UCM 2016 Undergraduate Catalog and is subject to change.

**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 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 Department of Biochemistry and Chemistry is located in W.C. Morris, room 417. You can contact them by telephone at (660) 543-4948. To learn more visit [www.ucmo.edu/chemphys](http://www.ucmo.edu/chemphys).

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