

UNIVERSITY OF CENTRAL MISSOURI

SFCC A.A. to UCM B.S. in Chemistry

YEARS 1 AND 2 AT SFCC		YEARS 3 AND 4 AT UCM	
(UCM equivalencies in parentheses)		MAJOR REQUIREMENTS - 39-40 Hours	
COMMUNICATIONS – 9 Hours			
ENGL 101 English Composition I (ENGL 1020)	3	CHEM 3111 Inorganic Chemistry	4
ENGL 102 English Composition II (ENGL 1030)	3	CHEM 3212 Quantitative Analysis	4
COMM 101 Public Speaking (COMM 1000)	3	CHEM 3421 Biochemistry	3
AMERICAN INSTITUTIONS – 3 Hours		CHEM 3920 Communication Skills in Chemistry	2
POLS 101 (POLS 1510), HIST 101 (HIST 1350), or HIST 102 (HIST 1351)	3	CHEM 4531 Physical Chemistry: Thermodynamics & Kinetics	4
SOCIAL SCIENCES – 3 Hours		Choose one of the following 3 options - 6-21 Hours	
BADM 101 (MGT 1300), ECON 101 (ECON 1010), 102 (ECON 1011), GEOG 101 (GEOG 2212), HIST 108 (HIST 1400), 109 (HIST 1402), or POLS 103 (POLS 1500)	3	Option 1: Chemistry	6
BEHAVIORAL SCIENCE – 3 Hours		CHEM 4111 Advanced Inorganic Chemistry	3
PSY 101 (PSY 1100), 102 (PSY 2220), 104 (PSY 1320), BADM 107 (FIN 1820), SOC 100 (SOC 1800), or 102 (SOC 2825)	3	CHEM 4221 Environmental Chemistry	3
LITERATURE – 3 Hours		CHEM 4231 Instrumental Analysis	4
LIT 101, LIT 107 (ENGL 2200 or 2205), LIT 109 (ENGL 2210 or 2215), LIT 112 (ENGL 2220), or LIT 114.	3	CHEM 4313 Advanced Organic Chemistry	3
FINE ARTS – 3 Hours		CHEM 4421 Advanced Biochemistry	3
ART 101 (ART 1800), 120 (ART 1825), MUS 101 (MUS 1210), 103 (MUS 2311), 104 (MUS 3212) or THEA 107 (THEA 2400) THEA 125	3	CHEM 4431 Biochemistry Laboratory	2
HUMANITIES – 3 Hours		CHEM 4532 Physical Chemistry: Quantum Mechanics and Spectroscopy	4
AGRI 106, FREN 101 (FREN 1201), PHIL 101 (PHIL 1000), 102 (PHIL 2300), 104, SOC 120 (ECEL 2110) or SPAN 101 (SPAN 1601)	3	CHEM 4800 Forensic Chemistry and Toxicology	3
MATHEMATICS – 3 Hours		CHEM 4910 Research in Chemistry	2
**MATH 130 Calculus & Analytic Geometry I (MATH 1151)	5	Electives from the following	6
LIFE AND PHYSICAL SCIENCES – 8 Hours		CHEM 4111 Advanced Inorganic Chemistry	3
**CHEM 123 General Chemistry I with Lab (CHEM 1131)	5	CHEM 4221 Environmental Chemistry	3
Choose one course from life sciences.		CHEM 4313 Advanced Organic Chemistry	3
Life sciences: BIO 100 (BIOL 1110), 103 (BIOL 2010), 105 (BIOL 3721), 112 (BIOL gened), 125 (BIOL 1111), 126 (BIOL 1112), 208 (BIOL 3401 & BIOL 3402 if taken w/ BIO 207)	3-5	CHEM 4421 Advanced Biochemistry	3
Option 3 Only		CHEM 4431 Biochemistry Laboratory	2
**BIO 100 Introduction to Biological Sciences (BIOL 1110)	3	CHEM 4800 Forensic Chemistry and Toxicology	3
^WELLNESS – 1 Hour Minimum		Option 3: Biochemistry	22
HLTH 101 (PE 1206), WELL 116, 117, 118, 119, 121 or 122, or EDUC 110	1-2	BIOL 3511 Genetics	4
GENERAL EDUCATION ELECTIVE – 1-3 Hours		BIOL 4514 Molecular Biology	3
Choose one course to total 42 hours In general education.	1-3	BIOL 4515 Molecular Technology	3
ELECTIVES – 22 Hours Minimum		CHEM 4231 Instrumental Analysis	4
**CHEM 124 General Chemistry II with Lab (CHEM 1132)	5	CHEM 4421 Advanced Biochemistry	3
**CHEM 221 Organic Chemistry I with Lab (CHEM 3341)	5	CHEM 4431 Biochemistry Laboratory	2
**CHEM 222 Organic Chemistry II with Lab (CHEM 3342)	5		
**PHYS 105 College Physics I with Lab (PHYS 1101)	5		
**PHYS 106 College Physics II with Lab (PHYS 1102)	5		
**MATH 131 Calculus and Analytic Geometry II (MATH 1152)	5		

****Course fulfills a major requirement at UCM and if not taken as part of AA must be taken at UCM**

Minimum Hours Required for A.A.: 63 Hours
Minimum Hours Required for B.S.: 120 Hours

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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 SFCC 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 SFCC 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 SFCC 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

State Fair Community College catalog: <http://www.sfccmo.edu/pages/104.asp>
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 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.

CREDIT FOR MILITARY SERVICE

^Veterans, members of the National Guard and active duty military personnel may receive 2 hours of wellness credit by presenting a copy of their DD214 or similar record. See your SFCC navigator for more information.