

East Central College — Missouri S&T

Chemistry BA Transfer Guide

Effective as of Fall 2020

East Central College

Missouri S&T

Communication Skills (Take all courses)

ENG 101	English Composition I	3	ENGLISH 1120	Exposition and Argumentation	3
ENG 102	English Composition II	3	ENGLISH 1160	Writing and Research	3
	Foreign Language (3 semesters of same language OR 2 semesters of each of two different languages)	12		Foreign Language (3 semesters of same language OR 2 semesters of each of two different languages)	9-12
Total Hours			18		
Total Hours			15-18		

Mathematics and Sciences (Take all courses)

MTH 190	Analytic Geometry & Calculus I	5	MATH 1214	Calculus for Engineers I	4
MTH 210	Analytic Geometry & Calculus II	5	MATH 1215	Calculus for Engineers II	4
CHM 111	General Chemistry I and Lab	5	CHEM 1310, 1319	General Chemistry I and Lab	5
CHM 112	General Chemistry II and Lab	5	CHEM 1320, 1510	General Chemistry II and Qualitative Analysis	5
Total Hours			20		
Total Hours			18		

Humanities

(Select up to 9 hours to include at least 1 fine art, 1 English, and 1 philosophy)

ART 101 or MUS 101 or THE 101	Art Appreciation or Music Appreciation or Theatre Appreciation (or other fine art)	3	ART 1180 or MUSIC 1150 or THEATRE 1190	Art Appreciation or Music Appreciation or Theatre Appreciation (or other fine art)	3
ENG 210 or ENG 221 or EMG 124 or ENG 214 or ENG 215	Survey British Lit: Beginnings to 1784 or Survey American Lit: Colonial to 1865 or World Literature I or Women's Literature or African-American Literature (or other literature)	3	ENGLISH 1211 or ENGLISH 1221 or ENGLISH 1231 or ENGLISH 2242 or ENGLISH 2245 or	British Literature I: The Beginnings to 1800 or American Literature: 1600 to 1865 or World Literature I or Literature by Women or African American Literature (or other literature elective)	3
PHL 101	Introduction to Philosophy	3	PHILOS 1105	Intro to Philosophy (or other philosophy)	3
	See your advisor for course options	3		Other fine art, literature, or philosophy elective	3
Total Hours			9		
Total Hours			9		

Social Sciences

(Select up to 12 hours in two areas, to include History 1100 and 1200)

CIV 201	European Civilization I	3	HISTORY 1100	Early Western Civilization (required)	3
CIV 202	European Civilization II	3	HISTORY 1200	Modern Western Civilization (required)	3
ECO 102 or ECO 101	Principles of Microeconomics or Principles of Macroeconomics	3	ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomics	3
PSC 102	US Government: National and State	3	POL SCI 1200	American Government	3
PSY 101	General Psychology	3	PSYCH 1101	General Psychology	3
HST 101	US History to 1865	3	HISTORY 1300	American History to 1877	3
HST 102	US History 1865-1945	3	HISTORY 1310	American History since 1877	3
	See your advisor for course options			Other history, economics, political science, psychology, or sociology	3
Total Hours			6		
Total Hours			12		

Additional Degree Requirements (Select additional courses to total 60 credit hours)

CHM 205	Organic Chemistry I and Lab	5	CHEM 2210, 2219	Organic Chemistry I and Lab	4
CHM 206	Organic Chemistry II and Lab	5	CHEM 2220, 2229	Organic Chemistry II and Lab	4
MTH 220	Analytical Geometry and Calculus III	5	MATH 2222	Calculus with Analytic Geometry III	4
PHY 211, 212	General Physics I and Lab	5	PHYSICS 1135	Engineering Physics I	4
PHY 221, 222	General Physics II and Lab	5	PHYSICS 2135	Engineering Physics II	4
BIO 111 or BIO 121	General Biology Lecture & Lab or Principles of Biology and Lab (or other life science)	5	BIO SCI 1113, 1219* or BIO SCI 1213, 1219*	General Biology (3) and Lab* (2) or Principles of Biology (3) and Lab* (2) (or other life science) *Note: BIO SCI 1219 lab is not an S&T degree requirement; course will transfer as elective credit.	3
Total Hours			13		
Total Hours			3-6		

Maximum credit hours to be transferred to Missouri S&T degree requirements.

60

Missouri S&T residency requirements: The last 60 hours of any Missouri S&T degree must be completed at Missouri S&T.
Students must receive special permission from Missouri S&T to apply more than the maximum credit hours listed above toward the Missouri S&T degree.
Students are not required to complete all courses on this guide before transferring to Missouri S&T.