

East Central College — Missouri S&T

Chemistry BA

Transfer Guide Effective as of Fall 2025

East Central College

Missouri S&T

Communication Skills

Take all courses.

Take all courses.					
ENG 101	English Composition I	3	ENGLISH 1120	Exposition and Argumentation	3
ENG 102 or ENG 104	English Composition II or Technical Writing	3	ENGLISH 1160 or ENGLISH 3560	Writing and Research or Technical Writing <i>Applies to degree as Gen Ed Communication requirement.</i>	3
Foreign Language	Foreign Language 3 semesters of same language OR 2 semesters of each of two different languages.	12	Foreign Language	Foreign Language 3 semesters of same language OR 2 semesters of each of two different languages.	12
Total Hours		18	Total Hours		18

Mathematics and Sciences

Take all courses.

Take all courses:					
MTH 190	Analytic Geometry & Calculus I	5	MATH 1214	Calculus I	4
MTH 210	Analytic Geometry & Calculus II	5	MATH 1215	Calculus 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
BIO 111 or BIO 121	General Biology and Lab or Principles of Biology and Lab	5	BIO SCI 1113, 1219* or BIO SCI 1213, 1219*	General Biology and Lab*or Principles of Biology* and Lab* or other biological science Satisfies a biological sciences elective requirement. *The lab is not a degree requirement, transfers as general elective credit.	3
Total Hours		25	Total Hours		21

Humanities

Select up to 12 hours to include at least one course in each of the three areas of literature (English and American), philosophy, and non-performance fine arts (art, music, and theater).

ENG 210 or ENG 211 or ENG 221 or ENG 222 or ENG 124	Survey British Lit: Beginnings - 1784 or Survey British Lit: Romantic-Present or Survey American Lit: Beginnings - 1865 or Survey American Lit: 1865-Present or World Literature I	3	ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1231	British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present American Literature: 1600 to 1865 or American Literature: 1865 to Present or World Literature I: Beginnings to the Renaissance	3
ART 101 or MUS 101 or THE 101	Art Appreciation or Music Appreciation or Theatre Appreciation	3	ART 1180 or MUSIC 1150 or THEATRE 1190	Art Appreciation or Music Appreciation or Theatre via Video	3
PHL 101 or PHL 111	Intro to Philosophy or Intro to Logic	3	PHILOS 1105 or PHILOS 1115	Self and World: Intro to Philosophy or Logic and Reasoning: An Introduction	3
Humanities Elective	Other fine art, literature, or philosophy	3	Humanities Elective	Other fine art, literature, or philosophy	3
Total Hours		12	Total Hours		12

Social Sciences

Select up to 15 hours in two areas to include History 1100 and 1200.

Select up to 15 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	Principles of Microeconomics or	3	ECON 1100 or	Principles of Microeconomics or	3
ECO 101	Principles of Macroeconomics		ECON 1200	Principles of Macroeconomics	
PSC 102	US Government I: 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 1877	3	HISTORY 1300	American History to 1877	3
HST 102	US History Since 1877	3	HISTORY 1310	American History since 1877	3
Social Science	Other history, economics, political science, psychology, or sociology	3	Social Science	Other history, economics, political science, psychology, or sociology	3
Total Hours		12	Total Hours		12

Additional Degree Requirements

Select additional courses to total up to the maximum transfer credit hours shown below.

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 III	4
PHY 111, 112 or PHY 211, 212	College Physics I and Lab or General Physics I and Lab	5	PHYSICS 1145 or PHYSICS 1135	College Physics I or Engineering Physics I	4
PHY 121, 122 or PHY 221, 222	College Physics II and Lab or General Physics II and Lab	5	PHYSICS 2145 or PHYSICS 2135	College Physics II or Engineering Physics II	4
MTH 242	Engineering Statistics	3	STAT 3115	Engineering Statistics <small>Will be substituted for STAT 3113.</small>	3

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.

must receive special permission from Missouri S&T to apply more than the maximum credit hours listed above toward the Missouri S&T degree.

required to complete all courses on this guide before transferring to Missouri S&T.

Students
Students are not