

East Central College — Missouri S&T

Chemistry BA

Transfer Guide Effective as of Fall 2026

Students are not required to complete all courses on this guide before transferring to Missouri S&T.

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 or ENG 104	English Composition II or Technical Writing	3	ENGLISH 1160 or ENGLISH 3560	Writing and Research or Technical Writing <small>Applies to degree as Gen Ed Communication requirement.</small>	3
Foreign Language	Foreign Language <small>3 semesters of same language OR 2 semesters of each of two different languages.</small>	12	Foreign Language	Foreign Language <small>3 semesters of same language OR 2 semesters of each of two different languages.</small>	12
Total Hours			Total Hours		
18			18		

Mathematics and Sciences

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* <small>or other biological science Satisfies a biological sciences elective requirement. The lab is not a degree requirement, will transfer as general elective credit.</small>	3
Total Hours			Total Hours		
25			21		

Humanities

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

ENG 210 or ENG 211 or ENG 221 or ENG 222 or ENG 124 or Literature	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 Any literature with prerequisite of no more than English Composition I.		ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1231 or Literature	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 or Any literature with prerequisite of no more than ENGLISH 1120.	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			Total Hours		
12			12		

Social Sciences

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 <small>required</small>	3
CIV 202	European Civilization II	3	HISTORY 1200	Modern Western Civilization <small>required</small>	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 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			Total Hours		
15			15		

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.

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.

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This transfer guide is published by Missouri University of Science and Technology and is in effect as of Fall 2026.

Further information or updates are available from Missouri S&T Transfer Admissions at transfer.mst.edu, transfer@mst.edu, or 800-522-0938.