

East Central College — Missouri S&T

Chemistry BA with Secondary Education Teacher Certification

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		3
ENG 102 or	English Composition II or	3	ENGLISH 1160 or	Writing and Research or	3
ENG 104	Technical Writing		ENGLISH 3560	Technical Writing	
		Total Hours	6	Total Hours	
			6		

Social Sciences

Take all courses.

CIV 201	European Civilization I	3	HISTORY 1100	Early Western Civilization	3
CIV 202	European Civilization II	3	HISTORY 1200	Modern Western Civilization	3
ECO 102 or	Principles of Microeconomics or		ECON 1100 or	Principles of Microeconomics or	
ECO 101 or	Principles of Macroeconomics or	3	ECON 1200 or	Principles of Macroeconomics or	3
PSC 102	US Government I: National and State		POL SCI 1200	American Government	
PSY 101	General Psychology	3	PSYCH 1101	General Psychology	3
		Total Hours	12	Total Hours	
			12		

Humanities

Take all courses.

ART 101 or	Art Appreciation or		ART 1180 or	Art Appreciation or	
MUS 101 or	Music Appreciation or	3	MUSIC 1150 or	Music Appreciation or	3
THE 101	Theatre Appreciation		THEATRE 1190	Theatre via Video	
PHL 101	Introduction to Philosophy	3	PHILOS 1105	Self and World: Intro to Philosophy	3
ENG 221 or	Survey American Literature: Beginnings-1865 or	3	ENGLISH 1221 or	American Literature: 1600 to 1865 or	3
ENG 222	Survey American Literature: 1865-Present		ENGLISH 1222	American Literature 1865 to Present	
		Total Hours	9	Total Hours	
			9		

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	General Biology and Lab* (5) or		BIO SCI 1113, 1219* or	General Biology and Lab*or	
BIO 121	Principles of Biology I and Lab * (5)	3	BIO SCI 1213,* 1219*	Principles of Biology* and Lab*	3
		Total Hours	23	Total Hours	
			23		

*BIO SCI 1213 will be substituted for 1113. The lab is not a degree requirement, transfers as general elective credit.

Additional Degree Requirements

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

PHY 102 or	Intro to Astronomy or	3	PHYSICS 1505 or	Introductory Astronomy or	3
GEO 101	Intro to Physical Geology		GEOLOGY 1110	Physical and Environmental Geology	
PHY 111, 112 or	College Physics I and Lab (5) or	5	PHYSICS 1145 or	College Physics I or	4
PHY 211, 212	General Physics I and Lab (5)		PHYSICS 1135	Engineering Physics I	
BIO 110	Ecology	3	BIO SCI 2263	Ecology	3
CHM 111	General Chemistry I and Lab	5	CHEM 2210, 2219	Organic Chemistry I and Lab	4
CHM 112	General Chemistry II and Lab	5	CHEM 2220, 2229*	Organic Chemistry II and Lab*	4
			The lab is not a degree requirement, transfers as general elective credit.		

Teacher Certification Requirements

Take all courses.

EDU 201 or	Foundations of Education or	3	EDUC 1074	Education in a Diverse Society	3
EDU 214	Multicultural Education				
EDU 190 or	CDA Capstone-Childcare Practicum or	3	EDUC 1104	Teacher Field Experience I	1
EDU 212	Teaching Professional/Field Experience				
EDU 241	Educational Psychology	3	EDUC 2102 or	Educational Psychology	3
PSY 250	Human Development	3	PSYCH 2300		
EDU 244	Education of the Exceptional Learner	3	PSYCH 3310	Developmental Psychology	3
		Total Hours	15	EDUC 2310 or	Education of the Exceptional Child or
			15	PSYCH 4310	Psychology of the Exceptional Child
					Total Hours
					13

Professional Requirements for Teacher Education Program:

Please view all program requirements at <https://teachereducation.mst.edu/secondaryeducation/>.

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

61

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.

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.