

St. Charles Community 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.

St. Charles Community 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 115	English Composition II or Technical Writing	3	ENGLISH 1160 or ENGLISH 3560	Writing and Research or Technical Writing	3
		Total Hours	6		
				Total Hours	6

Social Sciences

Take all courses.

HIS 145	Western Civ: Ancient and Medieval Heritage	3	HISTORY 1100	Early Western Civilization	3
HIS 146	Western Civ: Modern European Heritage	3	HISTORY 1200	Modern Western Civilization	3
ECO 120 or ECO 110 or POL 101	Principles of Microeconomics or Principles of Macroeconomics or American Government	3	ECON 1100 or ECON 1200 or POL SCI 1200	Principles of Microeconomics or Principles of Macroeconomics or American Government	3
PSY 101	Intro to Psychology	3	PSYCH 1101	General Psychology	3
		Total Hours	12		
				Total Hours	12

Humanities

Take all courses.

ART 1001 or MUS 111 or THE 122	Art Appreciation or Music Appreciation or Intro to the Theatre	3	ART 1180 or MUSIC 1150 or THEATRE 1190	Art Appreciation or Music Appreciation or Theatre via Video	3
PHL 101	Intro to Philosophy	3	PHILOS 1105	Self and World: Intro to Philosophy	3
LIT 210 or LIT 220	American Literature From 1620 - 1865 or American Literature From 1865 - Present	3	ENGLISH 1221 or ENGLISH 1222	American Literature: 1600 to 1865 or American Literature 1865 to Present	3
		Total Hours	9		
				Total Hours	9

Mathematics and Sciences

Take all courses.

MAT 180	Calculus and Analytic Geometry I	5	MATH 1214	Calculus I	4
MAT 230	Calculus and Analytic Geometry II	5	MATH 1215	Calculus II	4
CHM 115	General Chemistry I	5	CHEM 1310, 1319	General Chemistry I and Lab	5
CHM 116	General Chemistry II	5	CHEM 1320, 1510	General Chemistry II and Qualitative Analysis	5
BIO 105, 106 or BIO 150	Essentials of Biology and Lab (4) or General Biology: Cells to Organisms (5)	4	BIO SCI 1113, 1219* or BIO SCI 1213,* 1219*	General Biology and Lab*or Principles of Biology* and Lab*	3
		Total Hours	24		
				Total Hours	21

*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 130 or PHY 125	Astronomy or Intro to Physical Geology	3	PHYSICS 1505 or GEOLOGY 1110	Introductory Astronomy or Physical and Environmental Geology	3
PHY 150 or PHY 250	General Physics I (3) or Engineering Physics I (5)	3	PHYSICS 1135 or PHYSICS 1145	Engineering Physics I or College Physics I	4
CHM 240	Organic Chemistry I	3	CHEM 2210, 2219	Organic Chemistry I and Lab	4
CHM 241	Organic Chemistry II	3	CHEM 2220, 2229*	Organic Chemistry II and Lab*	4
CHEM 222	Quantitative Analysis	4	CHEM 2510	Analytical Chemistry I	4

The lab is not a degree requirement, transfers as general elective credit.

Teacher Certification Requirements

Take all courses.

EDU 212	Foundations of Education in a Diverse Society	3	EDUC 1074	Education in a Diverse Society	3
EDU 285	Teaching Profession with Field Experience	3	EDUC 1104	Teacher Field Experience I	1
EDU 240	Educational Psychology	3	EDUC 2102 or PSYCH 2300	Educational Psychology	3
PSY 110	Human Growth and Development	3	PSYCH 3310	Developmental Psychology	3
EDU 250	Education of Exceptional Learners	3	EDUC 2310 or PSYCH 4310	Education of the Exceptional Child or Psychology of the Exceptional Child	3
		Total Hours	15		
				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.