

Three Rivers College — Missouri S&T

Chemistry BA with Secondary Education Teacher Certification

Transfer Guide Effective as of Fall 2025

Three Rivers College

Missouri S&T

Communication Skills

Take all courses.

ENGL 111	College Writing	3	ENGLISH 1120	Exposition and Argumentation	3
ENGL 112	Advanced College Writing	3	ENGLISH 1160	Writing and Research	3
		Total Hours	6		
				Total Hours	6

Social Sciences

Take all courses.

HIST 121	World Civilization to the Renaissance	3	HISTORY 1100	Early Western Civilization	3
HIST 122	World Civilization since the Renaissance	3	HISTORY 1200	Modern Western Civilization	3
ECON 212 or ECON 211 or GOVT 121	Principles of Microeconomics or Principles of Macroeconomics or National and State Government	3	ECON 1100 or ECON 1200 or POL SCI 1200	Principles of Microeconomics or Principles of Macroeconomics or American Government	3
PSYC 111	General Psychology	3	PSYCH 1101	General Psychology	3
		Total Hours	12		
				Total Hours	12

Humanities

Take all courses.

ARTS 123 or ARTS 110 or MUSC 123 or THEA 120	History and Appreciation of Art or Intro to Art or History and Appreciation of Music or History and Appreciation of Theatre	3	ART 1180 or MUSIC 1150 or THEATRE 1190	Art Appreciation or Music Appreciation or Theatre via Video	3
PHIL 200	Intro to Philosophy	3	PHILOS 1105	Self and World: Intro to Philosophy	3
ENGL 241 or ENGL 242	American Literature to 1870 or American Literature since 1870	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.

MATH 171	Analytical Geometry and Calculus I	5	MATH 1214	Calculus I	4
MATH 271	Analytical Geometry and Calculus II	5	MATH 1215	Calculus II	4
CHEM 121	General Chemistry I	5	CHEM 1310, 1319	General Chemistry I and Lab	5
CHEM 122	General Chemistry II	5	CHEM 1320, 1510	General Chemistry II and Qualitative Analysis	5
BIOL 101	General Biology	5	BIO SCI 1113, 1219*	General Biology and Lab*	3
		Total Hours	25		
				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.

PHYS 150	Environmental Geology MOTR GEOL 100	4	GEOLOGY 1110	Physical and Environmental Geology MOTR GEOL 100	3
PHYS 211	General Physics I	5	PHYSICS 1135	Engineering Physics I	4
CHEM 121	General Chemistry I	5	CHEM 2210, 2219	Organic Chemistry I and Lab	4
CHEM 122	General Chemistry II	5	CHEM 2220, 2229*	Organic Chemistry II and Lab*	4
BIOL 101	General Biology	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.

EDUC 230	Foundations of Education	3	EDUC 1074	Education in a Diverse Society	3
EDUC 201	Teaching Profession with Field Experience	3	EDUC 1104	Teacher Field Experience I	1
EDUC 210	Educational Psychology	3	EDUC 2102 or PSYCH 2300	Educational Psychology	3
PSYC 243	Human Development Across the Life Span	3	PSYCH 3310	Developmental Psychology	3
EDUC 260	Education of the Exceptional Learner	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.

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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.