

Johnson County Community College — Missouri S&T

Chemistry BA with Secondary Education Teacher Certification

Transfer Guide Effective as of Fall 2025

Johnson County Community College

Missouri S&T

Communication Skills

Take all courses.

ENGL 121	Composition I	3	ENGLISH 1120	Exposition and Argumentation	3
ENGL 122 or	Composition II or	3	ENGLISH 1160 or	Writing and Research or	3
ENGL 123	Technical Writing I		ENGLISH 3560	Technical Writing	
		Total Hours	6	Total Hours	
					6

Social Sciences

Take all courses.

HIST 125 or	Western Civ: Ancient World to the Renaissance or	3	HISTORY 1100	Early Western Civilization	3
HIST 151	World History: Traditional				
HIST 126	Western Civ: Scientific Revolution to Modern Age	3	HISTORY 1200	Modern Western Civilization	3
ECON 231 or	Principles of Microeconomics or		ECON 1100 or	Principles of Microeconomics or	
ECON 230 or	Principles of Macroeconomics or	3	ECON 1200 or	Principles of Macroeconomics or	3
POLS 124	American National Government		POL SCI 1200	American Government	
PSYC 130	Intro to Psychology	3	PSYCH 1101	General Psychology	3
		Total Hours	12	Total Hours	
					12

Humanities

Take all courses.

MUS 121 or	Intro to Music Listening or		ART 1180 or	Art Appreciation or	
MUS 126 or	Intro to World Music or	3	MUSIC 1150 or	Music Appreciation or	3
THEA 120	Intro to Theatre		THEATRE 1190	Theatre via Video	
PHIL 121	Intro to Philosophy	3	PHILOS 1105	Self and World: Intro to Philosophy	3
ENGL 246 or	American Literature I or	3	ENGLISH 1221 or	American Literature: 1600 to 1865 or	3
ENGL 247	American Literature II		ENGLISH 1222	American Literature 1865 to Present	
		Total Hours	9	Total Hours	
					9

Mathematics and Sciences

Take all courses.

MATH 241 and	Calculus I and	10	MATH 1214 and	Calculus I and	4
MATH 242	Calculus II		MATH 1215	Calculus II	
CHEM 124, 125	General Chemistry I and Lab	5	CHEM 1310, 1319	General Chemistry I and Lab	5
CHEM 131, 132	General Chemistry II and Lab	5	CHEM 1320, 1510	General Chemistry II and Qualitative Analysis	5
BIOL 121	Intro to Biology for Non-Majors	4	BIO SCI 1113, 1219*	General Biology and Lab*	3
		Total Hours	24	Total Hours	
					17

Additional Degree Requirements

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

ASTR 120 or	Fundamentals of Astronomy (3) or		PHYSICS 1505 or	Introductory Astronomy or	3
ASTR 122 or	Astronomy (4) or	3	GEOLOGY 1110	Physical and Environmental Geology	
GEOS 130	General Geology (5)				
PHYS 130 or	College Physics I or	5	PHYSICS 1145 or	College Physics I or	4
PHYS 220	Engineering Physics I		PHYSICS 1135	Engineering Physics I	
CHEM 220	Organic Chemistry I	5	CHEM 2210, 2219	Organic Chemistry I and Lab	4
CHEM 221	Organic Chemistry II	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.

EDUC 121	Introduction to Teaching	3	EDUC 1074	Education in a Diverse Society	3
PSYC 225	Educational Psychology	3	EDUC 2102 or	Educational Psychology	3
PSYC 215	Child Development	3	PSYCH 2300	Developmental Psychology	3
		Total Hours	9	Total Hours	
					9

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.