

Jefferson College — Missouri S&T

Chemistry BA with Secondary Education Teacher Certification

Transfer Guide Effective as of Fall 2025

Jefferson College

Missouri S&T

Communication Skills

Take all courses.

ENG 101	English Composition I	3	ENGLISH 1120	Exposition and Argumentation	3
ENG 102	English Composition II	3	ENGLISH 1160	Writing and Research	3
		Total Hours	6		
				Total Hours	6

Social Sciences

Take all courses.

HST 201	Ancient and Medieval Civilization	3	HISTORY 1100	Early Western Civilization	3
HST 202	Renaissance to Early Mod Europe MOTR WCIV 102	3	HISTORY 1200	Modern Western Civilization MOTR WCIV 102	3
ECO 102 or	Microeconomics or		ECON 1100 or	Principles of Microeconomics or	
ECO 101 or	Macroeconomics or	3	ECON 1200 or	Principles of Macroeconomics or	3
PSC 102	US and Missouri Govt. and Constitution		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 121 or	Appreciation of Music or	3	MUSIC 1150 or	Musical Appreciation or	3
THT 100	Theatre Appreciation		THEATRE 1190	Theatre via Video	
PHL 102	Intro to Philosophy	3	PHILOS 1105	Self and World: Intro to Philosophy	3
ENG 175 or	American Literature I or		ENGLISH 1221 or	American Literature: 1600 to 1865 or	
ENG 176	American Literature II	3	ENGLISH 1222	American Literature 1865 to Present	3
		Total Hours	9		
				Total Hours	9

Mathematics and Sciences

Take all courses.

MTH 180	Calculus I	5	MATH 1214	Calculus I	4
MTH 185	Calculus II	5	MATH 1215	Calculus II	4
CHM 111	General Chemistry I	5	CHEM 1310, 1319	General Chemistry I and Lab	5
CHM 112	General Chemistry II	5	CHEM 1320, 1510	General Chemistry II and Qualitative Analysis	5
BIO 101 or	General Biology (5) or		BIO SCI 1113, 1219* or	General Biology and Lab*or	
BIO 103	Biology for Majors I (4)	4	BIO SCI 1213,* 1219*	Principles of Biology* and Lab*	3
		Total Hours	24		
				Total Hours	21

Additional Degree Requirements

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

PHY 106 or	Intro to Astronomy or		PHYSICS 1505 or	Introductory Astronomy or	
PHY 105	Physical Geology	4	GEOLOGY 1110	Physical and Environmental Geology	3
PHY 111 or	Elementary College Physics I MOTR 150L (5) or		PHYSICS 1145 or	College Physics I MOTR 150L or	
PHY 223	General Physics I (4)	4	PHYSICS 1135	Engineering Physics I	4
CHM 200	Organic Chemistry I	5	CHEM 2210, 2219	Organic Chemistry I and Lab	4
CHM 201	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.

EDU 210	Foundations of Education	3	EDUC 1074	Education in a Diverse Society	3
EDU 230	Teaching Profession with Field Experience	3	EDUC 1104	Teacher Field Experience I	1
EDU 225	Educational Psychology	3	EDUC 2102 or	Educational Psychology	
PSY 201	Child Psychology	3	PSYCH 2300	Educational Psychology	3
		Total Hours	12		
				Total Hours	10

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.