

# St. Louis Community College — Missouri S&T

## Chemistry BA with Secondary Education Teacher Certification

Transfer Guide Effective as of Fall 2025

### St. Louis Community College

### Missouri S&T

#### Communication Skills

Take all courses.

ENG 101	College Composition I	3	ENGLISH 1120	Exposition and Argumentation	3
ENG 102 or ENG 103	College Composition II or Report 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.

HST 115	Ancient and Medieval History to 1500	3	HISTORY 1100	Early Western Civilization	3		
HST 128	Western Civilization 1500 to Present	3	HISTORY 1200	Modern Western Civilization	3		
ECO 152 or	Principles of Microeconomics or	3	ECON 1100 or	Principles of Microeconomics or	3		
ECO 151 or	Principles of Macroeconomics or		ECON 1200 or	Principles of Macroeconomics or			
PSC 101	Intro to American Politics		POL SCI 1200	American Government			
PSY 200	General Psychology	3	PSYCH 1101	General Psychology	3		
		Total Hours	12			Total Hours	12

#### Humanities

Take all courses.

ART 100 or MUS 114 or THT 101	Art Appreciation or Music Appreciation or Intro to 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		
ENG 204 or ENG 205	American Literature I or American Literature II	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.

MTH 210	Analytical Geometry and Calculus I	5	MATH 1214	Calculus I	4		
MTH 220	Analytical Geometry and Calculus II	5	MATH 1215	Calculus II	4		
CHM 105	General Chemistry I	5	CHEM 1310, 1319	General Chemistry I and Lab	5		
CHM 106	General Chemistry II	5	CHEM 1320, 1510	General Chemistry II and Qualitative Analysis	5		
BIO 111 or BIO 140	Intro to Biology I (4) or Principles of Biology I (5)	4	BIO SCI 1113, 1219* or BIO SCI 1213,* 1219*	General Biology and Lab*or Principles of Biology* and Lab* <small>*BIO SCI 1213 will be substituted for 1113. The lab is not a degree requirement, transfers as general elective credit.</small>	3		
		Total Hours	24			Total Hours	21

#### Additional Degree Requirements

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

PSI 111 or GEO 111	Intro to Astronomy or Physical Geology	5	PHYSICS 1505 or GEOLOGY 1110	Introductory Astronomy or Physical and Environmental Geology	3
PHY 111 or PHY 122	College Physics I (4) or Engineering Physics I (5)	4	PHYSICS 1145 or PHYSICS 1135	College Physics I or Engineering Physics I	4
BIO 117	Conservation and Ecology	3	BIO SCI 2263	Ecology	3
CHM 206	Organic Chemistry I	3	CHEM 2210, 2219	Organic Chemistry I and Lab	4
CHM 207	Organic Chemistry II	3	CHEM 2220, 2229*	Organic Chemistry II and Lab* <small>The lab is not a degree requirement, transfers as general elective credit.</small>	4

#### Teacher Certification Requirements

Take all courses.

EDU 211	Foundations of Education in a Diverse Society	3	EDUC 1074	Education in a Diverse Society	3
EDU 210	Teaching Profession with Field Experience	3	EDUC 1104	Teacher Field Experience I	1
EDU 227	Educational Psychology	3	EDUC 2102 or PSYCH 2300	Educational Psychology	3
PSY 205	Human Growth and Development	3	PSYCH 3310	Developmental Psychology	3
EDU 219	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.

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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.