

# Metropolitan Community College — Missouri S&T

## Chemistry BA with Secondary Education Teacher Certification

Transfer Guide Effective as of Fall 2025

### Metropolitan Community College

### Missouri S&T

#### Communication Skills

Take all courses.

Take an course:					
ENGL 101	Composition and Reading I	3	ENGLISH 1120	Exposition and Argumentation	3
ENGL 102 or ENGL 215	Composition and Reading 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.

Prerequisites							
HIST 133	Foundations of Western Civilization	3	HISTORY 1100	Early Western Civilization	3		
HIST 134	Modern Western Civilization	3	HISTORY 1200	Modern Western Civilization	3		
ECON 211 or ECON 210 or POL 136	Microeconomics or Macroeconomics or Intro to U.S. National Politics	3	ECON 1100 or ECON 1200 or POL SCI 1200	Principles of Microeconomics or Principles of Macroeconomics or American Government	3		
PSYC 140	General Psychology	3	PSYCH 1101	General Psychology	3		
		Total Hours	12			Total Hours	12

#### Humanities

Take all courses.

ART 108 or MUSI 108 or SPDR 106	Survey of Art or Music Appreciation or Theater Appreciation	3	ART 1180 or MUSIC 1150 or THEATRE 1190	Art Appreciation or Music Appreciation or Theatre via Video	3		
PHIL 100	Introduction to Philosophy	3	PHILOS 1105	Self and World: Intro to Philosophy	3		
ENGL 220 or ENGL 222	British Literature to 1750 or American Literature I	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 180	Analytic Geometry & Calculus I	5	MATH 1214	Calculus I	4		
MATH 190	Analytic Geometry & Calculus II	5	MATH 1215	Calculus II	4		
CHEM 111	General College Chemistry I	5	CHEM 1310, 1319	General Chemistry I and Lab	5		
CHEM 112	General College Chemistry II	5	CHEM 1320, 1510	General Chemistry II and Qualitative Analysis	5		
BIOI 123 or BIOL 101	General Biology for Majors I (4) or General Biology (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.

PHYS 106 or GEOL 101 or GEOL 102	General Astronomy (4) or Physical Geology (5) or Historical Geology (4)	4	PHYSICS 1505 or GEOLOGY 1110	Introductory Astronomy or Physical and Environmental Geology	3
PHYS 130 or PHYS 220	General Physics I or Engineering Physics I	5	PHYSICS 1145 or PHYSICS 1135	College Physics I or Engineering Physics I	4
BIOL 202	Ecology	5	BIO SCI 2263	Ecology	3
CHEM 221	Organic Chemistry I	5	CHEM 2210, 2219	Organic Chemistry I and Lab	4
CHEM 222	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 100	Introduction to Education	2	EDUC 1074	Education in a Diverse Society	3		
EDUC 201	Teaching Profession with Field Experience	3	EDUC 1104	Teacher Field Experience I	1		
EDUC 270	Educational Psychology	3	EDUC 2102 or PSYCH 2300	Educational Psychology	3		
PSYC 241	Human Development	4	PSYCH 3310	Developmental Psychology	3		
EDUC 285	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.