

# Mineral Area College — Missouri S&T

## Chemistry BA with Secondary Education Teacher Certification

Transfer Guide Effective as of Fall 2025

### Mineral Area College

### Missouri S&T

#### Communication Skills

Take all courses.

ENG 1330	English Composition I	3	ENGLISH 1120	Exposition and Argumentation	3
ENG 1340	English Composition	3	ENGLISH 1160 or ENGLISH 3560	Writing and Research or Technical Writing	3
		Total Hours	6		
				Total Hours	6

#### Social Sciences

Take all courses.

HIS 1130	Western Civilization I	3	HISTORY 1100	Early Western Civilization	3
HIS 1140	Western Civilization II	3	HISTORY 1200	Modern Western Civilization	3
BUS 2940 or BUS 2930 or POS 1180	Principles of Microeconomics or Principles of Macroeconomics or American Political Systems	3	ECON 1100 or ECON 1200 or POL SCI 1200	Principles of Microeconomics or Principles of Macroeconomics or American Government	3
PSY 1130	General Psychology I	3	PSYCH 1101	General Psychology	3
		Total Hours	12		
				Total Hours	12

#### Humanities

Take all courses.

ART 1490 or MUS 1630 or THE 1000	History of Art I or Appreciation of Music or Intro to Theatre	3	ART 1180 or MUSIC 1150 or THEATRE 1190	Art Appreciation or Music Appreciation or Theatre via Video	3
PHI 1400	Intro to Philosophy	3	PHILOS 1105	Self and World: Intro to Philosophy	3
ENG 2430 or ENG 2440	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.

MAT 1650	Analytical Geometry and Calculus I	5	MATH 1214	Calculus I	4
MAT 2150	Analytical Geometry and Calculus II	5	MATH 1215	Calculus II	4
PHS 1350	General Chemistry I	5	CHEM 1310, 1319	General Chemistry I and Lab	5
PHS 1390, 1380	General Chemistry II and Qualitative Analysis	6	CHEM 1320, 1510	General Chemistry II and Qualitative Analysis	5
BIO 1150* or BIO 1100 or	General Biology* (5) or Intro to Biological Science (3)	3-5	BIO SCI 1113, 1219* or BIO SCI 1113	General Biology (3) and Lab (1) *or General Biology (3)	3
		Total Hours	21		
				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.

PHS 1200	Intro to Astronomy	3	PHYSICS 1505	Introductory Astronomy	3
PHS 1420 or PHS 2230	College Physics I or General Physics I	4	PHYSICS 1145 or PHYSICS 1135	College Physics I or Engineering Physics I	4
PHS 2350	Organic Chemistry I	5	CHEM 2210, 2219	Organic Chemistry I and Lab	4
PHS 2360	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 2040	Foundations of Education	3	EDUC 1074	Education in a Diverse Society	3
EDU 2100	Teaching Profession with Field Experience	3	EDUC 1104	Teacher Field Experience I	1
EDU 2320	Educational Psychology	3	EDUC 2102 or PSYCH 2300	Educational Psychology	3
PSY 1250	Human Growth and Development	3	PSYCH 3310	Developmental Psychology	3
EDU 2500	Education of 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.

**62**

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.