

# Mineral Area College — Missouri S&T

## Chemistry BA with Secondary Education Teacher Certification Transfer Guide

Effective as of Fall 2023

### 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	Writing and Research	3
ENG 1440	Public Speaking	3	SPMS 1185	Principles of Speech	3
Total Hours			Total Hours		
9			9		

#### Social Sciences (Take all courses)

HIS 1230 or HIS 1240	American History I or American History II	3	HISTORY 1300 or HISTORY 1310	American History to 1877 or American History since 1877	3
POS 1180	American Political Systems	3	POL SCI 1200	American Government	3
PSY 1130	General Psychology I	3	PSYCH 1101	General Psychology	3
Total Hours			Total Hours		
9			9		

#### 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	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			Total Hours		
9			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	General Biology	5	BIO SCI 1113, 1219	General Biology and Lab	4
Total Hours			Total Hours		
26			22		

#### Additional Degree Requirements

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

PHS 2230	General Physics I	4	PHYSICS 1135	Engineering Physics I	4
PHS 2240	General Physics II	4	PHYSICS 2135	Engineering Physics II	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

#### Teacher Certification Requirements (Take all courses)

EDU 2040	Foundations of Education	3	EDUC 1040	Perspectives in Education	2
EDU 2320	Educational Psychology	3	PSYCH 2300 (EDUC 2102)	Educational Psychology	3
PSY 1250	Human Growth and Development	3	PSYCH 3310	Developmental Psychology	3
EDU 2500	Education of Exceptional Learner	3	PSYCH 4310	Psychology of the Exceptional Child	3
Total Hours			Total Hours		
12			11		

**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.**

**73**

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.