

Mineral Area College — Missouri S&T

Biological Sciences 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	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.

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
		6			6

Humanities

Select 9 hours to include at least one course in each of the following areas: fine arts (art, music, or theatre), philosophy, literature.

ART 1490 or MUS 1630 or THE 1000	History of Art I or Appreciation of Music or Intro to Theatre or other fine art	3	ART 1180 or MUSIC 1150 or THEATRE 1190	Art Appreciation or Music Appreciation or Theatre via Video or other fine art	3
PHI 1400	Intro to Philosophy or other philosophy	3	PHILOS 1105	Self and World: Intro to Philosophy or other philosophy	3
ENG 2330 or ENG 2430 or ENG 2492	English Literature I or American Literature I or Women's Literature or other literature	3	ENGLISH 1211 or ENGLISH 1221 or ENGLISH 2242	British Literature I: The Beginnings to 1800 or American Literature: 1600 to 1865 or Literature by Women or other literature	3
		Total Hours			Total Hours
		9			9

Mathematics and Sciences

Take all courses.

MAT 1185	Fundamentals of Algebra or higher math	4	MATH 1103	Fundamentals of Algebra or higher math	3
PHS 1350	General Chemistry I	5	CHEM 1310, 1319	General Chemistry I and Lab	5
PHS 1390	General Chemistry II	4	CHEM 1320, 1510*	General Chemistry II (3) and Qualitative Analysis (2) *CHEM 1510 is not an S&T degree requirement. Will transfer as general credit.	3
BIO 1150	General Biology	5	BIO SCI 1113, 1219	General Biology and Lab	4
		Total Hours			Total Hours
		18			15

Additional Degree Requirements

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

PHS 1420 or PHS 1200	College Physics I (4) or Intro to Astronomy (3)	3	PHYSICS 1145 or PHYSICS 1505	College Physics I (4) or Astronomy (3) Satisfies a 3-hour science requirement. Any additional credits apply to degree totals as general elective credit.	3
BIO 1430	Environmental Science	3	BIO SCI 1173	Intro to Environmental Sciences	3
PHS 2350	Organic Chemistry I	5	CHEM 2210	Organic Chemistry I	3
PHS 2360	Organic Chemistry II	5	CHEM 2220	Organic Chemistry II	3
HIS 1130	Western Civilization I	3	HISTORY 1100	Early Western Civilization	3
HIS 1140	Western Civilization II	3	HISTORY 1200	Modern Western Civilization	3
MAT 1260	Elementary Statistics Or other statistics or computer class. Statistics preferred; computer class is acceptable.	3	STAT 1115	Statistics for Social Sciences I Or other statistics or computer class. Statistics preferred; computer class is acceptable. Satisfies a 3-hour computer science/statistics requirement. Any additional credit hours apply to degree totals as general elective credit.	3

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			Total Hours
		15			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.
must receive special permission from Missouri S&T to apply more than the maximum credit hours listed above toward the Missouri S&T degree.
required to complete all courses on this guide before transferring to Missouri S&T.

Students
Students are not