

Mineral Area College — Missouri S&T

Biological Sciences BA with Secondary Education Teacher Certification Transfer Guide

Effective as of Fall 2020

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 (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 Appreciation	3
PHI 1400	Intro to Philosophy	3	PHILOS 1105	Introduction to Philosophy	3
ENG 2330 or ENG 2430 or ENG 2492	English Literature I or American Literature I or Women's Literature (or other literature elective)	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 elective)	3
Total Hours			Total Hours		
9			9		

Mathematics and Sciences (Take all courses)

MAT 1230	College Algebra (or higher level math)	3	MATH 1140	College Algebra (or higher level 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	General Chemistry II	3
BIO 1150	General Biology	5	BIO SCI 1113, 1219	General Biology and Lab	5
Total Hours			Total Hours		
17			16		

Additional Degree Requirements (Select up to 20 hours)

PHS 1420 or PHS 1200	College Physics I (4) or Intro to Astronomy (3)	3-4	PHYSICS 1145 or PHYSICS 1505	College Physics I or Astronomy	3
PHS 2410	Physical Geology	5	GEOLOGY 1110	Physical and Environmental Geology	3
BIO 2360	Survey of Genetics	4	BIO SCI 2223	General Genetics	3
PHS 2350	Organic Chemistry I	5	CHEM 2210	Organic Chemistry I	4
PHS 2360	Organic Chemistry II	5	CHEM 2220	Organic Chemistry II	4
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 2570 or MAT 1260 or MGT 1560 or CSC 1600 or CSC 2400 or	Business Statistics or Elementary Statistics or Statistics or C#Programming or Computer Programming in C++ (Or other statistics or computer class. Statistics preferred; computer class is acceptable.)	3	STAT 1115 or STAT 1115 or STAT 1115 or IST 1551 or CS 1971, 1981	Statistics for Social Sciences I or Statistics for Social Sciences I or Statistics for Social Sciences I or Implementing Infor Sys: User Persp or Intro to Programming Method and Lab (Or other statistics or computer class. Statistics preferred; computer class is acceptable.)	3-4
Total Hours			Total Hours		
20			20		

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		

***Teacher certification notes:** An ACT of 22 or a 220 on the MoGEA is required for professional standing in the department. Students must pass the MoCA, maintain a 2.75 cumulative GPA, and a 3.0 content GPA to qualify for student teaching. Students completing this program will earn a BA in Biological Science.

Maximum credit hours to be transferred to Missouri S&T degree requirements. 71

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.