

# Ozarks Technical College — Missouri S&T

## Biological Sciences BA with Secondary Education Teacher Certification Transfer Guide

Effective as of Fall 2020

Ozarks Technical College			Missouri S&T		
<b>Communication Skills (Take all courses)</b>					
ENG 101	Composition I	3	ENGLISH 1120	Exposition and Argumentation	3
ENG 102 or ENG 150	Composition II or Technical Writing	3	ENGLISH 1160 or ENGLISH 3560	Writing and Research or Technical Writing	3
COM 105	Public Speaking	3	SPMS 1185	Principles of Speech	3
Total Hours			Total Hours		
9			9		
<b>Social Sciences (Take all courses)</b>					
PLS 101	American Government and Politics	3	POL SCI 1200	American Government	3
PSY 110	Intro to Psychology	3	PSYCH 1101	General Psychology	3
Total Hours			Total Hours		
6			6		
<b>Humanities (Take all courses)</b>					
ART 100 or MUS 105 or THR 101	Art and Experience or Western Music Appreciation or Intro to Theater	3	ART 1180 or MUSIC 1150 or THEATRE 1190	Art Appreciation or Music Appreciation or Theatre Appreciation	3
PHL 101	Intro to Philosophy	3	PHILOS 1105 or PHILOS 1115	Intro to Philosophy or Intro to Logic	3
ENG 340 or ENG 350 or ENG 260	Survey of English Literature I or Survey of American Literature I or Survey of World Literature I (or other literature elective)	3	ENGLISH 1211 or ENGLISH 1221 or ENGLISH 1231	British Literature I: The Beginnings to 1800 or American Literature: 1600 to 1865 or World Literature I (or other literature elective)	3
Total Hours			Total Hours		
9			9		
<b>Mathematics and Sciences (Take all courses)</b>					
MTH 130	College Algebra (or higher level math)	3	MATH 1140	College Algebra (or higher level math)	3
CHM 160, 161	General Chemistry	5	CHEM 1310, 1319	General Chemistry I and Lab	5
CHM 170	General Chemistry II	3	CHEM 1320	General Chemistry II	3
BIO 100 or BIO 160	Life Science or General Biology I	4	BIO SCI 1113,1219	General Biology and Lab	4
Total Hours			Total Hours		
15			16		
<b>Additional Degree Requirements (Select up to 20 hours)</b>					
PHY 120 or PHY 100	General Physics or Intro to Astronomy	4	PHYSICS 1145 or PHYSICS 1505	College Physics I or Astronomy	3
PHY 110	Intro to Geology	4	GEOLOGY 1110	Physical and Environmental Geology	3
BIO 170	General Biology II	4	BIO SCI 1223, 1229	Biodiversity and Lab	5
BIO 105	Environmental Science	4	BIO SCI 1173	Intro to Environmental Sciences	3
BIO 250	Genetics	4	BIO SCI 2223	General Genetics	3
BIO 275	Environmental Biology	4	BIO SCI 2263	Ecology	3
CHM 242	Organic Chemistry I	5	CHEM 2210,2219*	Organic Chemistry I (4) and Lab* (1) <small>*Note: CHEM 2219 is not an S&amp;T degree requirement; course will transfer as elective credit.</small>	4
CHM 243	Organic Chemistry II	5	CHEM 2220, 2229*	Organic Chemistry II (4) and Lab* (1) <small>*Note: CHEM 2229 is not an S&amp;T degree requirement; course will transfer as elective credit.</small>	4
HST 105	World History I	3	HISTORY 1100	Early Western Civilization	3
HST 106	World History II	3	HISTORY 1200	Modern Western Civilization	3
MTH 210 or CIS 150 or CSC 210 or CSC 140	Statistical Methods (3) or C# Programming I (3) or Data Structures (4) or C++ Programming (4) <small>(Or other statistics or computer class. Statistics preferred; computer class is acceptable.)</small>	3-4	STAT 1115 or IST 1551 or CS 1500 or CS 1971, 1981	Statistics for Social Sciences I or Implementing Infor Sys: User Persp or Computational Problem Solving or Intro to Programming Method and Lab <small>(Or other statistics or computer class. Statistics preferred; computer class is acceptable.)</small>	3
Total Hours			Total Hours		
20			20		
<b>Teacher Certification Requirements (Take all courses)</b>					
EDU 220	Foundations of Education	3	EDUC 1040	Perspectives in Education	2
EDU 250	Educational Psychology	3	PSYCH 2300 (EDUC 2102)	Educational Psychology	3
PSY 130	Life Span Developmental Psychology	3	PSYCH 3310	Developmental Psychology	3
EDU 260	Education 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.

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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.