

# St. Louis Community Colleges — Missouri S&T

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

Effective as of Fall 2020

St. Louis Community Colleges				Missouri S&T			
<b>Communication Skills (Take all courses)</b>							
ENG 101	College Composition I	3		ENGLISH 1120	Exposition and Argumentation		3
ENG 102 or ENG 103	College Composition II or Report Writing	3		ENGLISH 1160 or ENGLISH 3560	Writing and Research or Technical Writing		3
COM 107	Public Speaking	3		SPMS 1185	Principles of Speech		3
Total Hours				Total Hours			
<b>Social Sciences (Take all courses)</b>							
PSC 101	Intro to American Politics	3		POL SCI 1200	American Government		3
PSY 200	General Psychology	3		PSYCH 1101	General Psychology		3
Total Hours				Total Hours			
<b>Humanities (Take all courses)</b>							
ART 100 or MUS 114 or THT 101	Art Appreciation or Music Appreciation or Intro to Theatre	3		ART 1180 or MUSIC 1150 or THEATRE 1190	Art Appreciation or Music Appreciation or Theatre Appreciation		3
PHL 101 or PHL 102	Intro to Philosophy or Intro to Logic	3		PHILOS 1105 or PHILOS 1115	Intro to Philosophy or Intro to Logic		3
ENG 210 or ENG 204 or ENG 205 or ENG 231 or ENG 216 or ENG 217	British Literature I or American Literature I or American Literature II or World Literature or Women in Literature or Major Black Writers (or other literature elective)	3		ENGLISH 1211 or ENGLISH 1221 or ENGLISH 1221 or ENGLISH 1231 or ENGLISH 2242 or ENGLISH 2245	British Literature I: The Beginnings to 1800 or American Literature: 1600 to 1865 or American Literature: 1600 to 1865 or World Literature I or Literature by Women or African American Literature (or other literature elective)		3
Total Hours				Total Hours			
<b>Mathematics and Sciences (Take all courses)</b>							
MTH 140 or MTH 160	Intermediate Algebra (3) or Precalculus Algebra (or higher level math)	4		MATH 1103 or MATH 1140	Fundamentals of Algebra or College Algebra (or higher math)		3
CHM 105	General Chemistry I	5		CHEM 1310,1319	General Chemistry I and Lab		5
CHM 106	General Chemistry II	5		CHEM 1320, 1510	General Chemistry II (3) and Qualitative Analysis (2)* *Note: CHEM 1510 is not an S&T degree requirement; course will transfer as elective credit.		3
BIO 111 or BIO 140	Intro to Biology I (4) or Principles of Biology I (5)	4-5		BIO SCI 1113,1219 or BIO SCI 1213, 1219	General Biology (3) and Lab (2) or Principles of Biology (3) and Lab (2)		5
Total Hours				Total Hours			
<b>Additional Degree Requirements (Select up to 20 hours)</b>							
PHY 111 or PSI 111	College Physics I (4) or Intro to Astronomy (3)	3-4		PHYSICS 1145 or PHYSICS 1505	College Physics I or Astronomy		3
GEO 111	Physical Geology	5		GEOLOGY 1110	Physical and Environmental Geology		3
BIO 141	Principles of Biology II	4		BIO SCI 1223, 1229	Biodiversity and Lab		5
BIO 225	Genetics	5		BIO SCI 2223	General Genetics		3
BIO 117	Conservation and Ecology	3		BIO SCI 2263	Ecology		3
CHM 206	Organic Chemistry I	3		CHEM 2210	Organic Chemistry I		4
CHM 207	Organic Chemistry II	3		CHEM 2220	Organic Chemistry II		4
HST 117	Early Modern Europe	3		HISTORY 1100	Early Western Civilization		3
HST 128	Western Civilization 1500 to Present	3		HISTORY 1200	Modern Western Civilization		3
BUS 201 or MTH 180 or IS 153 or IS 256 or IS 167 or ESC 101	Elementary Statistics (3) or Introductory Statistics (3) or C# Programming (4) or C++ Programming (3) or C++ Programming I (4) or Scientific Computer Programming (3) (Or other statistics or computer class. Statistics preferred; computer class is acceptable.)	3-4		STAT 1115 or STAT 1115 or IST 1551 or CS 1500 or CS 1500 or CS 1971, 1981	Statistics for Social Sciences I or Statistics for Social Sciences I or Implementing Infor Sys: User Persp or Computational Problem Solving or Computational Problem Solving 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			
<b>Teacher Certification Requirements (Take all courses)</b>							
EDU 211 or EDU 220	Foundations of Education or Teaching Profession with Field Exp	3		EDUC 1040	Perspectives in Education		2
EDU 227	Educational Psychology	3		PSYCH 2300 (EDUC 2102)	Educational Psychology		3
PSY 205	Human Growth and Development	3		PSYCH 3310	Developmental Psychology		3
EDU 219	Education of Exceptional Learners	3		PSYCH 4310	Psychology of the Exceptional Child		3
Total Hours				Total Hours			

**\*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.