

# St. Charles Community College — Missouri S&T

## Biological Sciences BA with Secondary Education Teacher Certification

Transfer Guide Effective as of Fall 2025

### St. Charles Community College

### Missouri S&T

#### Communication Skills

Take all courses.

ENG 101	English Composition I	3	ENGLISH 1120	Exposition and Argumentation	3
ENG 102 or	English Composition II or		ENGLISH 1160 or	Writing and Research or	
ENG 115	Technical Writing	3	ENGLISH 3560	Technical Writing	3
COM 106	Public Speaking	3	SPMS 1185	Principles of Speech	3
Total Hours		9	Total Hours		9

#### Social Sciences

Take all courses.

POL 101	American Government	3	POL SCI 1200	American Government	3
PSY 101	Intro to Psychology	3	PSYCH 1101	General Psychology	3
Total Hours		6	Total Hours		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 1001 or MUS 111 or THE 122	Art Appreciation or Music Appreciation or Intro of 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
PHL 101 or PHL 102	Intro to Philosophy or Intro to Logic or other philosophy	3	PHILOS 1105 or PHILOS 1115	Self and World: Intro to Philosophy or Logic and Reasoning: An Introduction or other philosophy	3
LIT 250 or LIT 210 or LIT 272 or LIT 223	English Literature Before 1800 or American Literature From 1620-1865 or World Lit-Ancient World thru Renaissance or African American Literature or other literature	3	ENGLISH 1211 or ENGLISH 1221 or ENGLISH 1231 or ENGLISH 2245 or	British Literature I: The Beginnings to 1800 or American Literature: 1600 to 1865 or World Literature I or African American Literature or other literature	3
Total Hours		9	Total Hours		9

#### Mathematics and Sciences

Take all courses.

MAT 121	Intermediate Algebra or higher math	4	MATH 1103	Fundamentals of Algebra or higher math	3
CHM 115	General Chemistry I and Lab	5	CHEM 1310, 1319	General Chemistry I and Lab	5
CHM 116	General Chemistry II and lab	5	CHEM 1320, 1510*	General Chemistry II (3) and Qualitative Analysis (2) <small>*CHEM 1510 is not an S&amp;T degree requirement. Will transfer as general credit.</small>	3
BIO 105, 106 or BIO 150	Essentials of Biology and Lab (4) or General Biology: Cells to Organisms (5)	4	BIO SCI 1113, 1219 or BIO SCI 1213, 1219	General Biology and Lab or Principles of Biology and Lab	4
Total Hours		18	Total Hours		15

#### Additional Degree Requirements

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

PHY 150 or PHY 130	General Physics I or Astronomy	3	PHYSICS 1145 or PHYSICS 1505	College Physics I (4) or Astronomy (3) <small>Satisfies a 3-hour science requirement. Any additional credits apply to degree totals as general elective credit.</small>	3
PHY 125	Intro to Physical Geology	3	GEOLOGY 1110	Physical and Environmental Geology	3
BIO 151	General Biology: Organisms to Environment	5	BIO SCI 1223, 1229	Biodiversity and Lab	5
BIO 122	Environmental Science	3	BIO SCI 1173	Intro to Environmental Sciences	3
CHM 240	Organic Chemistry I	3	CHEM 2210	Organic Chemistry I	3
CHM 241	Organic Chemistry II	3	CHEM 2220	Organic Chemistry II	3
HIS 145	Western Civ: Ancient and Medieval Heritage	3	HISTORY 1100	Early Western Civilization	3
HIS 146	Western Civ: Modern European Heritage	3	HISTORY 1200	Modern Western Civilization	3
MAT 157 or MAT 175 or CPT 135 or CPT 185 or CPT 189 or CPT 182	College Statistics-General Education (4) or Introductory Statistics (3) or Computer Science I with Python (4) or C# Programming (3) or Computer Science II with Java (3) or Computer Science II with C++ (3) <small>Or other statistics or computer class. Statistics preferred; computer class is acceptable.</small>	3	STAT 1115 or STAT 1115 or CS 1500 or CS 1500 or CS 1500 or CS 1570*	Statistics for Social Sciences or Statistics for Social Sciences or Computational Problem Solving or Computational Problem Solving or Computational Problem Solving or Intro to Programming (C++)* <small>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. *CS 1580 lab will be waived.</small>	3

#### Teacher Certification Requirements

Take all courses.

EDU 212	Foundations of Education in a Diverse Society	3	EDUC 1074	Education in a Diverse Society	3
EDU 285	Teaching Profession with Field Experience	3	EDUC 1104	Teacher Field Experience I	1
EDU 240	Educational Psychology	3	EDUC 2102 or PSYCH 2300	Educational Psychology	3
PSY 110	Human Growth and Development	3	PSYCH 3310	Developmental Psychology	3
EDU 250	Education of Exceptional Learners	3	EDUC 2310 or PSYCH 4310	Education of the Exceptional Child or Psychology of the Exceptional Child	3
Total Hours		15	Total Hours		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. 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.