

St. Charles Community College — Missouri S&T

Biological Sciences BA with Secondary Education Teacher Certification

Transfer Guide Effective as of Fall 2026

Students are not required to complete all courses on this guide before transferring to Missouri S&T.

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 ENG 115	English Composition II or Technical Writing	3	ENGLISH 1160 or ENGLISH 3560	Writing and Research or 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 to the Theatre	3	ART 1180 or MUSIC 1150 or THEATRE 1190	Art Appreciation or Music Appreciation or Theatre via Video	3
PHL 101 or PHL 102	Intro to Philosophy or Intro to Logic	3	PHILOS 1105 or PHILOS 1115	Self and World: Intro to Philosophy or Logic and Reasoning: An Introduction	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 with prerequisite of no more than English Composition I.	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 any literature with prerequisite of no more than ENGLISH 1120.	3
		Total Hours	9		
				Total Hours	9

Mathematics and Sciences

Take all courses.

MAT 105 or MAT 155 or MAT 158 or MAT 157 or MAT 175	Applied Mathematics (3) or Contemporary College Math (4) or College Algebra-General Education or College Statistics-General Education (4) or Introductory Statistics (3) or higher math or statistics	4	MATH 1110 or MATH 1110 or MATH 1140 or STAT 1115 or STAT 1115	Mathematical Reasoning and Modeling or Mathematical Reasoning and Modeling or College Algebra or Statistics for the Social Sciences or Statistics for the Social Sciences or higher math or statistics	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) *CHEM 1510 is not an S&T degree requirement. Will transfer as general credit.	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) Satisfies a 3-hour science requirement. Any additional credits apply to degree totals as general elective credit.	3
PHY 125	Intro to Physical Geology Principles of Biology II equivalent	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	BIO SCI 2213, 2219	Cell Biology and Lab	4
CHM 241	Organic Chemistry II	3	CHEM 2210	Organic Chemistry I	3
HIS 145	Western Civ: Ancient and Medieval Heritage	3	CHEM 2220	Organic Chemistry II	3
HIS 146	Western Civ: Modern European Heritage	3	HISTORY 1100	Early Western Civilization	3
MAT 157 or MAT 175 or CPT 185 or CPT 189 or CPT 182	College Statistics-General Education (4) or Introductory Statistics (3) or C# Programming (3) or Computer Science II with Java (3) or Computer Science II with C++ (3) Or other statistics or computer class. Statistics preferred; computer class is acceptable.	3	HISTORY 1200	Modern Western Civilization	3
			STAT 1115 or STAT 1115 or COMP SCI 1500 or COMP SCI 1500 or COMP SCI 1570 or	Statistics for Social Sciences I or Statistics for Social Sciences I or Computational Problem Solving or Computational Problem Solving or Intro to Programming (C++) 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 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.

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