

St. Charles Community College — Missouri S&T

Biological Sciences BA

Transfer Guide Effective as of Fall 2025

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.

Take an Elective:					
ENG 101	English Composition I	3	ENGLISH 1120	Exposition and Argumentation	3
ENG 102 or ENG 115 or COM 106	English Composition II or Technical Writing or Public Speaking	3	ENGLISH 1160 or ENGLISH 3560 or SPMS 1185	Writing and Research or Technical Writing or Principles of Speech <small>Applies to degree as Gen Ed Communication requirement.</small>	3
Foreign Language	Foreign Language <small>3 semesters of same language OR 2 semesters of each of two different languages</small>	12	Foreign Language	Foreign Language <small>3 semesters of same language OR 2 semesters of each of two different languages</small>	12
		Total Hours	18		
				Total Hours	18

Major Requirements

Take all courses.

BIO 105, 106 or BIO 150	Essentials of Biology (3) and Lab (1) 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
BIO 151	General Biology: Organisms to Environment	5	BIO SCI 1223, 1229	Biodiversity and Lab	4
CHM 115	General Chemistry I	5	CHEM 1310, 1319	General Chemistry I and Lab	5
CHM 116	General Chemistry II	5	CHEM 1320, 1510*	General Chemistry II (3) and Qualitative Analysis (2) <small>*CHEM 1510 is not a degree requirement, transfers as general elective credit.</small>	3
Total Hours		19	Total Hours		16

Math and Physical Sciences

Select 9 hours to include college algebra or higher math.

College Algebra or higher math						
MAT 161	College Algebra or higher math	3	MATH 1140	College Algebra or higher math	3	
PHY 130 or PHY 150, 153	Astronomy (3) or General Physics I and Lab (4)	3	PHYSICS 1505 or PHYSICS 1145	Introductory Astronomy (3) or College Physics (4) or other physics	3-4	
PHY 125	Intro to Physical Geology		GEOLOGY 1110	Physical and Environmental Geology or other geology	3	
Physics or Geology	Other physics or geology.	3	Physics or Geology	Other physics or geology.	3	
Mathematics	Other mathematics higher than college algebra.	3	Mathematics	Other mathematics higher than college algebra.	3	
Total Hours			9	Total Hours		9

Humanities

Select 9 hours to include at least one course in each of the following areas: fine arts (art, music, or theatre), philosophy, literature.

Select a course to include at least one source 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 Theatre	3	ART 1180 or MUSIC 1150 or THEATRE 1190	Art Appreciation or Music Understanding and Appreciation or Theatre via Video	3
LIT 250 or LIT 260 or LIT 210 or LIT 220 or LIT 272	English Literature Before 1800 or English Literature After 1800 or American Literature From Beginnings-1865 or American Literature From 1865-Present or World Literature-Ancient World thru Renaissance	3	ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1231	British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present American Literature: 1600 to 1865 or American Literature: 1865 to Present or World Literature I: Beginnings to the Renaissance	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
		Total Hours	9		
				Total Hours	9

Social Sciences

Select 9 hours to include 6 hours in two of the following three areas: economics, political science, and psychology.

ECO 120 or ECO 110	Principles of Microeconomics or Principles of Macroeconomics	3	ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomics	3		
POL 101	American Government	3	POL SCI 1200	American Government	3		
PSY 101	Intro to Psychology	3	PSYCH 1101	General Psychology	3		
		Total Hours	9			Total Hours	9

Additional Degree Requirements

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

MAT 157 or MAT 175 or CPT 182	College Statistics-General Education (4) or Introductory Statistics (3) or Beginning Programming in C++ (3)	3	STAT 1115* or CS 1570	Statistics for the Social Sciences I* or Intro to Programming (C++) <small>Satisfies a computer science/statistics requirement. *Will be substituted for STAT 3111.</small>	3-4
CHEM 240	Organic Chemistry I	3	CHEM 2210	Organic Chemistry I	3
CHEM 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

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

60

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.

This transfer guide is published by Missouri University of Science and Technology and is in effect as of Fall 2025.
Further information or updates are available from Missouri S&T Transfer Admissions at transfer.mst.edu, transfer@mst.edu, or 800-522-0938.