

Johnson County Community College — Missouri S&T

Biological Sciences BA

Transfer Guide Effective as of Fall 2026

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

Johnson County Community College

Missouri S&T

Communication Skills

Take all courses.

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ENGL 121 or ENGL 140	Composition I (3) or College Composition I with Portfolio (5)	3	ENGLISH 1120	Exposition and Argumentation	3
ENGL 122 or ENGL 123 or COMS 121	Composition II or Technical Writing I or Public Speaking	3	ENGLISH 1160 or ENGLISH 3560 or SPMS 1185	Writing and Research or Technical Writing or Principles of Speech Applies to degree as Gen Ed Communication requirement.	3
Foreign Language	Foreign Language 3 semesters of same language OR 2 semesters of each of two different languages	12	Foreign Language	Foreign Language 3 semesters of same language OR 2 semesters of each of two different languages	12
		Total Hours	18		
				Total Hours	18

Major Requirements

Take all courses.

*CHEM 1510 is not a degree requirement, transfers as general elective credit.					
BIOL 121	Intro to Biology for Non-Majors	4	BIO SCI 1113,1219	General Biology and Lab	4
CHEM 124, 125	General Chemistry I and Lab	5	CHEM 1310, 1319	General Chemistry I and Lab	5
CHEM 131, 132	General Chemistry II and Lab	5	CHEM 1320, 1510*	General Chemistry II (3) and Qualitative Analysis (2)	3
		Total Hours	14	Total Hours	12

Mathematics and Physical Sciences

Select 9 hours to include college algebra or higher math.

MATH 171	College Algebra or higher math	3	MATH 1140	College Algebra or higher math	3	
ASTR 120 or	Fundamentals of Astronomy (3) or		PHYSICS 1505 or	Astronomy (3) or		
ASTR 122 or	Astronomy (4) or	3-5	PHYSICS 1505, 1509 or	Astronomy (3) and Lab (1) or	3-4	
PHYS 130	College Physics I (5)		PHYSICS 1145	College Physics I (4)		
GEOS 130	General Geology	5	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.

MUS 121 or MUS 126 or THEA 120	Intro to Music Listening or Intro to World Music or Intro to Theatre	3	MUSIC 1150 or MUSIC 1150 or THEATRE 1190	Music Appreciation or Music Appreciation or Theatre via Video	3
ENGL 236 or ENGL 237 or ENGL 246 or ENGL 247 or ENGL 251 or Literature	British Literature to 1800 or British Literature after 1800 or American Literature I or American Literature II or World Literature to 1620 or Any literature with prerequisite of no more than English Composition I.	3	ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1231 or Literature	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 or Any literature with prerequisite of no more than ENGLISH 1120.	3
PHIL 121 or PHIL 124	Intro to Philosophy or Logic and Critical Thinking	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.

Select 6 hours to include 6 hours in two of the following three areas: Economics, Political Science, and Psychology.					
ECON 231 or ECON 230	Principles of Microeconomics or Principles of Macroeconomics	3	ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomics	3
POLS 124	American National Government	3	POL SCI 1200	American Government	3
PSYC 130	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.

CS 200 or CS 250	Concepts of Programming Algorithms Using C++ or Basic Data Structures using C++	4	COMP SCI 1971, 1981	Intro to Programming Method and Lab (C++)	3-4
BIOL 135	Principles of Cellular and Molecular Biology	4	BIO SCI 2213, 2219	Cell Biology and Lab	4
BIOL 205	General Genetics	3	BIO SCI 2223	General Genetics	3
CHEM 220	Organic Chemistry I	5	CHEM 2210, 2219*	Organic Chemistry I (3) and Lab* (1) *The lab is not a degree requirement, transfers as general elective credit.	4
CHEM 221	Organic Chemistry II	5	CHEM 2220, 2229*	Organic Chemistry II (3) and Lab* (1) *The lab is not a degree requirement, transfers as general elective credit.	4
HIST 125 or HIST 151	Western Civ: Ancient World to the Renaissance or World History: Traditional	3	HISTORY 1100	Early Western Civilization	3
HIST 126	Western Civ: Scientific Revolution to Modern Age	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.

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