Johnson County 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.

Johnson County Community College			Missouri S&T		

Communication Skills
Take all courses.

ENGL 121 or ENGL 119	Composition I (3) or College Composition I with Review (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.

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) *CHEM 1510 is not a degree requirement, transfers as general elective credit.	3
	Total Hours	14		Total Hours	12

Math 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 ASTR 122 or PHYS 130	Fundamentals of Astronomy (3) or Astronomy (4) or College Physics I (5)	3-5	PHYSICS 1505 or PHYSICS 1505, 1509 or PHYSICS 1145	Astronomy (3) or Astronomy (3) and Lab (1) or College Physics I	3-4
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	ART 1180 or MUSIC 1150 or THEATRE 1190	Art Appreciation or Music Understanding and Appreciation or Theatre via Video	3
ENGL 236 or ENGL 237 or ENGL 246 or ENGL 247 or ENGL 251	British Literature to 1800 or British Literature after 1800 or American Literature I or American Literature II or World Literature to 1620	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
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.

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.

MATH 285 or MATH 181 or CS 200 or CS 250	Statistics for Business (4) or Statistics (3) or Concepts of Programming Algorithms Using C++ (4) or Basic Data Structures Using C++ (4)	3-4	STAT 3111 or STAT 1115* or CS 1971, 1981	Statistical Tools for Decision Making (3) or Statistics for the Social Sciences I* (3) or Intro to Programming Method and Lab (3) Satisfies a computer science/statistics requirement. Credit hours apply to degree totals as indicated for each course. *Will be substituted for STAT 3111.	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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