

Johnson County Community College — Missouri S&T

Biological Sciences BA with Secondary Education Teacher Certification

Transfer Guide Effective as of Fall 2025

Johnson County Community College

Missouri S&T

Communication Skills

Take all courses.

ENGL 121	Composition I	3	ENGLISH 1120	Exposition and Argumentation	3
ENGL 122 or	Composition II or	3	ENGLISH 1160 or	Writing and Research or	3
ENGL 123	Technical Writing I	3	ENGLISH 3560	Technical Writing	3
COMS 121	Public Speaking	3	SPMS 1185	Principles of Speech	3
		Total Hours			Total Hours
		9			9

Social Sciences

Take all courses.

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			Total Hours
		6			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.

MUS 121 or MUS 126 or THEA 120	Intro to Music Listening or Intro to World Music or Intro to Theatre or other fine art	3	MUSIC 1150 or THEATRE 1190	Music Understanding and Appreciation or Theatre via Video or other fine art	3
PHIL 121 or PHIL 124	Intro to Philosophy or Logic and Critical Thinking 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
ENGL 236 or ENGL 246 or ENGL 251 or ENGL 217	British Literature to 1800 or American Literature I or World Literature to 1620 or Literature by Women or other literature	3	ENGLISH 1211 or ENGLISH 1221 or ENGLISH 1231 or ENGLISH 2242	British Literature I: The Beginnings to 1800 or American Literature: 1600 to 1865 or World Literature I or Literature by Women or other literature	3
		Total Hours			Total Hours
		9			9

Mathematics and Sciences

Take all courses.

MATH 116	Intermediate Algebra or higher math	3	MATH 1103	Fundamentals of Algebra or higher math	3
CHEM 124, 125	General Chemistry I and Lab	5	CHEM 1310, 1319	General Chemistry I and Lab	5
CHEM 131	General Chemistry II Lecture	4	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
BIOL 121	Intro to Biology for Non-Majors	4	BIO SCI 1113, 1219	General Biology and Lab	4
		Total Hours			Total Hours
		16			15

Additional Degree Requirements

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

PHYS 130 or ASTR 120 or ASTR 122	College Physics I (5) or Fundamentals of Astronomy (3) or Astronomy (4)	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
GEOS 130	General Geology	5	GEOLOGY 1110	Physical and Environmental Geology	3
EVNR 130	Principles of Biology II equivalent	3	BIO SCI 1223, 1229	Biodiversity and Lab	5
BIOL 135	Environmental Science	3	BIO SCI 1173	Intro to Environmental Sciences	3
BIOL 205	Principles of Cellular and Molecular Biology	4	BIO SCI 2213, 2219	Cell Biology and Lab	4
CHEM 220	General Genetics	4	BIO SCI 2223	General Genetics	3
CHEM 221	Organic Chemistry I	5	CHEM 2210	Organic Chemistry I	3
CHEM 222	Organic Chemistry II	5	CHEM 2220	Organic Chemistry II	3
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
MATH 181 or MATH 285 or CS 200 or CS 235 or CS 250	Statistics (3) or Statistics for Business (4) or Concepts of Prog Algorithms Using C++ (4) or Object-Oriented Programming Using C++ (4) or Basic Data Structures using C++ (4)	3	STAT 1115 or STAT 3111 or CS 1500 or CS 1971, 1981	Statistics for Social Sciences I or Statistical Tools for Decision Making or Computational Problem Solving or Intro to Programming Method and Lab 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.

EDUC 121	Introduction to Teaching	3	EDUC 1074	Education in a Diverse Society	3
PSYC 225	Educational Psychology	3	EDUC 2102 or PSYCH 2300	Educational Psychology	3
PSYC 215	Child Development	3	PSYCH 3310	Developmental Psychology	3
		Total Hours			Total Hours
		9			9

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.
must receive special permission from Missouri S&T to apply more than the maximum credit hours listed above toward the Missouri S&T degree.
required to complete all courses on this guide before transferring to Missouri S&T.

Students
Students are not