

# Johnson County Community College — Missouri S&T

## Biological Sciences BS Transfer Guide

Effective as of Fall 2023

### 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	Composition II	3	ENGLISH 1160	Writing and Research	3
COMS 121	Public Speaking (if required for AA degree)	3	SPMS 1185	Principles of Speech (Not required for S&T degree. Transfers as a free elective)	3
Total Hours			Total Hours		

#### Social Sciences (Select 9 credit hours to include one course to satisfy state requirement)

HIST 126 or HIST 140 or HIST 141 or POLS 124	Western Civ: Scientific Revolution to Modern Age or US History to 1877 or US History since 1877 American National Government (At least one of these courses is required to satisfy state requirement)	3	HISTORY 1200 or HISTORY 1300 or HISTORY 1310 or POL SCI 1200	Modern Western Civilization or American History to 1877 or American History Since 1877 or American Government (At least one of these courses is required to satisfy state requirement)	3
ECON 231 or ECON 230 PSYC 130	Principles of Microeconomics or Principles of Macroeconomics Intro to Psychology Other economics, history, political science, sociology, psychology elective.	3 3 3 3	ECON 1100 or ECON 1200 PSYCH 1101	Principles of Microeconomics or Principles of Macroeconomics General Psychology Other economics, history, political science, sociology, psychology elective.	3 3 3 3
Total Hours			Total Hours		

#### Humanities (Select 6 hours)

MUS 121 or MUS 126 THEA 120 ENGL 236 ENGL 246 ENGL 251 ENGL 217 PHIL 121	Intro to Music Listening or Intro to World Music Intro to Theatre British Literature to 1800 American Literature I World Literature to 1620 Literature by Women Intro to Philosophy Other fine art, literature, or philosophy elective	3 3 3 3 3 3 3 3	MUSIC 1150 THEATRE 1190 ENGLISH 1211 ENGLISH 1221 ENGLISH 1231 ENGLISH 2242 PHILOS 1105	Music Understanding and Appreciation Theatre via Video British Literature I: The Beginnings to 1800 American Literature: 1600 to 1865 World Literature I Literature by Women Self and World: Intro to Philosophy Other fine art, literature, or philosophy elective	3 3 3 3 3 3 3
Total Hours			Total Hours		

#### Mathematics and Sciences (Take all courses)

BIOL 121 MATH 231 and 232 OR MATH 241 and 242	Intro to Biology for Non-Majors Business and Applied Calculus I and II (6) OR Calculus I and II (10)	4 6	BIO SCI 1113,1219 MATH 1212* OR MATH 1214 and 1215*	General Biology and Lab Survey of Calculus* (3) OR Calculus I and Calculus II* (8) *The combination of JCCC MATH 231 and 232 is equivalent to Missouri S&T 1212. The combination of MATH 241 and 242 is equivalent to the combination of Missouri S&T 1214 and 1215. MATH 1215 is not a degree requirement but will transfer as elective credit.	4 4
CHEM 124, 125 CHEM 131 CHEM 220 CHEM 221 PHYS 130or PHYS 220 PHYS 131or PHYS 221	General Chemistry I and Lab General Chemistry II Lecture Organic Chemistry I Organic Chemistry II College Physics I or Engineering Physics I College Physics II or Engineering Physics II	5 4 5 5 5 5 5	CHEM 1310, 1319 CHEM 1320 CHEM 2210, 2219 CHEM 2220, 2229 PHYSICS 1145, 1119 or PHYSICS 1135 PHYSICS 2145, 2119 or PHYSICS 2135	General Chemistry I and Lab General Chemistry II Organic Chemistry I and Lab Organic Chemistry II and Lab College Physics I and Lab or Engineering Physics I College Physics II and Lab or Engineering Physics II	5 3 4 4 5 5 5
Total Hours			Total Hours		

#### Additional Degree Requirements

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

BIOL 205	General Genetics	3	BIO SCI 2223	General Genetics	3
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#### 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.  
Students are not required to complete all courses on this guide before transferring to Missouri S&T.