

Jefferson College — Missouri S&T

Physics BS Transfer Guide

Effective as of Fall 2020

Jefferson College

Missouri S&T

Communication Skills (Take all courses)

ENG 101	English Composition I	3	ENGLISH 1120	Exposition and Argumentation	3
ENG 102	Composition and Rhetoric II	3	ENGLISH 1160	Writing and Research	3
COM 110	Public Speaking (if required for AA degree)	3	SPMS 1185	Principles of Speech (Not required for S&T degree. Transfers as free elective)	3
Total Hours		9	Total Hours		9

Mathematics and Science (Take all courses)

MTH 180	Calculus I	5	MATH 1214	Calculus for Engineers I	4
MTH 185	Calculus II	5	MATH 1215	Calculus for Engineers II	4
MTH 201	Calculus III	5	MATH 2222	Calculus with Analytic Geometry III	4
CHM 111	General Chemistry I	5	CHEM 1310, 1319	General Chemistry I and Lab	5
CHM 112	General Chemistry II	5	CHEM 1320	General Chemistry II	3
PHY 223	General Physics I	4	PHYSICS 1135	Engineering Physics I	4
PHY 224	General Physics II	4	PHYSICS 2135	Engineering Physics II	4
Total Hours		33	Total Hours		28

Social Sciences (Select 9 hours)

HIST 102 or HIST 103 or HIST 104 or PSC 102	Renaissance to Early Modern Europe or US History I or US History II or US and Missouri Govt. and Constitution (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
<i>See your advisor for course options</i>			Social Sciences	Social Sciences Elective: Any economics, history, political science, sociology, psychology elective	6
Total Hours		9	Total Hours		9

Humanities (Select 6 credit hours to include one literature and one additional humanities)

ENG 130 or ENG 175 or ENG 215	English Life and Literature I or American Literature I or World Literature before 1650 (or other literature elective)	3	ENGLISH 1211 or ENGLISH 1221 or ENGLISH 1231	British Literature I: The Beginnings to 1800 or American Literature: 1600 to 1865 or World Literature I (or other literature elective)	3
PHL 101	Logic	3	PHILOS 1115	Intro to Logic	3
PHL 102	Intro to Philosophy	3	PHILOS 1105	Introduction to Philosophy	3
<i>See your advisor for course options</i>			Other fine art, literature, or philosophy elective		
Total Hours		6	Total Hours		6

Additional Degree Requirements (Select up to 12 hours)

MTH 205	Differential Equations	3	MATH 3304	Elementary Differential Equations	3
MTH 172	Linear Algebra	3	MATH 3108	Linear Algebra	3
CIS 155	Intro to Computer Programming	3	CS 1971, 1981	Intro to Programming Methodology and Lab (C++)	3
BIO 102	Concepts in Biology (if required for AA degree)	3	BIO SCI 1113	General Biology (Transfers as free elective)	3
Total Hours		12	Total Hours		12

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.