

# Jefferson College — Missouri S&T

## Physics BS Transfer Guide

Effective as of Fall 2023

### 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
		Total Hours			Total Hours
		6			6

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

MTH 180	Calculus I	5	MATH 1214	Calculus I	4
MTH 185	Calculus II	5	MATH 1215	Calculus II	4
MTH 201	Calculus III	5	MATH 2222	Calculus 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			Total Hours
		33			28

#### Social Sciences

Select 9 hours to include at least one course to satisfy the state requirement.

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
ECO 102 or ECO 101	Microeconomics or Macroeconomics (or other economics elective)	3	ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomics (or other economics)	3
PSY 101	General Psychology	3	PSYCH 1101	General Psychology (or other psychology)	3
	Social Sciences Elective: Any economics, history, political science, sociology, psychology elective		Social Sciences	Social Sciences Elective: Any economics, history, political science, sociology, psychology elective	3
		Total Hours			Total Hours
		9			9

#### Humanities

Select 6 credit hours to include at least one literature.

PHL 102	Intro to Philosophy	3	PHILOS 1105	Self and World: Intro to Philosophy (or other philosophy)	3
ART 101	Art Appreciation	3	ART 118	Art Appreciation (or other fine art)	3
MUS 121	Appreciation of Music	3	MUS 1150	Music Understanding and Appreciation (or other music)	3
SPD 120	Intro to Theatre	3	THEATRE 1190	Theatre via Video (or other theater)	3
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
	Other fine art, literature, or philosophy elective			Other fine art, literature, or philosophy elective	
		Total Hours			Total Hours
		6			6

#### Additional Degree Requirements

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

MTH 205	Differential Equations	3	MATH 3304	Elementary Differential Equations	3
MTH 172	Linear Algebra	3	MATH 3108	Linear Algebra Recommended but not required, satisfies a math/stat elective requirement.	3
CIS 155	Intro to Computer Programming	3	CS 1500	Computational Problem Solving	3
	Maximum Free Electives	6		Maximum Free Electives	6

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