Jefferson College — Missouri S&T
Physics BS with Secondary Education Teacher Certification
Transfer Guide Effective as of Fall 2025

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	3	SPMS 1185	Principles of Speech	3
	Total Hours	9		Total Hours	9
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
PHY 223	General Physics I	4	PHYSICS 1135	Engineering Physics I	4
PHY 224	General Physics II	4	PHYSICS 2135	Engineering Physics II	4
CHM 111	General Chemistry I	5	CHEM 1310, 1319	General Chemistry I and Lab	5
CHM 112	General Chemistry II	5	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
	Total Hours	33		Total Hours	28
Social Sciences *Take all courses.*					
HST 103 or HST 104 or HST 202	US History I to Reconstruction or US History II from Reconstruction or Renaissance to Early Mod Europe MOTR WCIV 102	3	HISTORY 1300 or HISTORY 1310 or HISTORY 1200	American History to 1877 or American History Since 1877 or Modern Western Civilization MOTR WCIV 102	3
PSC 102	US and Missouri Govt. and Constitution	3	POL SCI 1200	American Government	3
PSY 101	General Psychology	3	PSYCH 1101	General Psychology	3
	Total Hours	9		Total Hours	9
Humanities *Take all courses.*					
ART 101 or MUS 121 or THT 100	Art Appreciation or Appreciation of Music or Theatre Appreciation	3	ART 1180 or MUSIC 1150 or THEATRE 1190	Art Appreciation or Music Appreciation or Theatre via Video	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*	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*	3
	Total Hours	6		Total Hours	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 *Applies to degree as math/stat elective.*	3
BIO 101	General Biology	5	BIO SCI 1113, 1219*	General Biology (3) and Lab* (1) *The lab is not a degree requirement. Will transfer as general elective credit.*	3
PHY 106 or PHY 105	Intro to Astronomy or Physical Geology	4	PHYSICS 1505 or GEOLOGY 1110	Introductory Astronomy or Physical and Environmental Geology *Will be substituted for PHYSICS 1605.*	3
Teacher Certification Requirements *Take all courses.*					
EDU 210	Foundations of Education	3	EDUC 1074	Education in a Diverse Society	2
EDU 230	Teaching Profession with Field Experience	3	EDUC 1104	Teacher Field Experience I	1
EDU 225	Educational Psychology	3	EDUC 2102 or PSYCH 2300	Educational Psychology	3
PSY 201	Child Psychology	3	PSYCH 3310	Developmental Psychology	3

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.	**61**

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.