

St. Louis Community College — Missouri S&T

Physics BS with Secondary Education Teacher Certification

Transfer Guide Effective as of Fall 2025

St. Louis Community College

Missouri S&T

Communication Skills

Take all courses.

ENG 101	College Composition I	3	ENGLISH 1120	Exposition and Argumentation	3	
ENG 102 or	College Composition II or	3	ENGLISH 1160 or	Writing and Research or	3	
ENG 103	Report Writing		ENGLISH 3560	Technical Writing		
COM 107	Public Speaking	3	SPMS 1185	Principles of Speech	3	
		Total Hours	9	Total Hours		9

Mathematics and Science

Take all courses.

MTH 210	Analytic Geometry and Calculus I	5	MATH 1214	Calculus I	4	
MTH 220	Analytic Geometry and Calculus II	5	MATH 1215	Calculus II	4	
MTH 230	Analytic Geometry and Calculus III	5	MATH 2222	Calculus III	4	
PHY 122	Engineering Physics I	5	PHYSICS 1135	Engineering Physics I	4	
PHY 223	Engineering Physics II	5	PHYSICS 2135	Engineering Physics II	4	
CHM 105	General Chemistry I	5	CHEM 1310, 1319	General Chemistry I and Lab	5	
CHM 106	General Chemistry II	5	CHEM 1320, 1510*	General Chemistry II (3) and Qualitative Analysis (2)	3	
		Total Hours	35	Total Hours		28

*CHEM 1510 is not an S&T degree requirement. Will transfer as general credit.

Social Sciences

Take all courses.

HST 128 or	Western Civilization 1500 to Present or		HISTORY 1300 or	American History to 1877 or	
HST 101 or	US History to 1865 or	3	HISTORY 1310 or	American History Since 1877 or	3
HST 102	US History 1865 to Present		HISTORY 1200	Modern Western Civilization	
PSC 101	Intro to American Politics	3	POL SCI 1200	American Government	3
PSY 200	General Psychology	3	PSYCH 1101	General Psychology	3
		Total Hours	9	Total Hours 9	

Humanities

Take all courses.

ART 100 or MUS 114 or THT 101	Art Appreciation or Music Appreciation or Intro to Theatre	3	ART 1180 or MUSIC 1150 or THEATRE 1190	Art Appreciation or Music Appreciation or Theatre via Video	3
ENG 211 or ENG 204 or ENG 231 or ENG 216 or ENG 217	British Literature II or American Literature I or World Literature or Women in Literature or Major Black Writers or other literature	3	ENGLISH 1211 or ENGLISH 1221 or ENGLISH 1231 or ENGLISH 2242 or ENGLISH 2245 or	British Literature I: The Beginnings to 1800 or American Literature: 1600 to 1865 or World Literature I or Literature by Women or African American Literature 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 240	Differential Equations	3	MATH 3304	Elementary Differential Equations	3
MTH 215	Linear Algebra	3	MATH 3108	Linear Algebra	3
			Applies to degree as math/stat elective.		
BIO 111	Intro to Biology I	4	BIO SCI 1113, 1119*	General Biology (3) and Lab* (1)	3
			*The lab is not a degree requirement, will transfer as general elective credit.		
PSI 111 or GEO 111	Intro to Astronomy (3) or Physical Geology (5)	3-5	PHYSICS 1505 or GEOLOGY 1110	Introductory Astronomy or Physical and Environmental Geology	3
			Will be substituted for PHYSICS 1605.		

Teacher Certification Requirements

Take all courses.

EDU 211	Foundations of Education in a Diverse Society	3	EDUC 1074	Education in a Diverse Society	3
EDU 210	Teaching Profession with Field Experience	3	EDUC 1104	Teacher Field Experience I	1
EDU 227	Educational Psychology	3	EDUC 2102 or PSYCH 2300	Educational Psychology	3
PSY 205	Human Growth and Development	3	PSYCH 3310	Developmental Psychology	3
EDU 219	Education of Exceptional Learners	3	EDUC 2310 or PSYCH 4310	Education of the Exceptional Child or Psychology of the Exceptional Child	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.

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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.