

Mineral Area College — Missouri S&T

Physics BS with Secondary Education Teacher Certification

Transfer Guide Effective as of Fall 2025

Mineral Area College

Missouri S&T

Communication Skills

Take all courses.

ENG 1330	English Composition I	3	ENGLISH 1120	Exposition and Argumentation	3
ENG 1340	English Composition	3	ENGLISH 1160	Writing and Research	3
ENG 1440	Public Speaking	3	SPMS 1185	Principles of Speech	3
		Total Hours	9		
				Total Hours	9

Mathematics and Science

Take all courses.

MAT 1650	Analytical Geometry and Calculus I	5	MATH 1214	Calculus I	4
MAT 2150	Analytical Geometry and Calculus II	5	MATH 1215	Calculus II	4
MAT 2250	Analytical Geometry and Calculus III	5	MATH 2222	Calculus III	4
PHS 2230	General Physics I	4	PHYSICS 1135	Engineering Physics I	4
PHS 2240	General Physics II	4	PHYSICS 2135	Engineering Physics II	4
PHS 1350	General Chemistry I	5	CHEM 1310, 1319	General Chemistry I and Lab	5
PHS 1390	General Chemistry II	4	CHEM 1320, 1510*	General Chemistry II (3) and Qualitative Analysis (2)	3
		Total Hours	32		
				Total Hours	28

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

Social Sciences

Take all courses.

HIS 1140 or HIS 1230 or HIS 1240	Western Civilization II or American History I or American History II	3	HISTORY 1300 or HISTORY 1310 or HISTORY 1200	American History to 1877 or American History Since 1877 or Modern Western Civilization	3
POS 1180	American Political Systems	3	POL SCI 1200	American Government	3
PSY 1130	General Psychology I	3	PSYCH 1101	General Psychology	3
		Total Hours	9		
				Total Hours	9

Humanities

Take all courses.

ART 1490 or MUS 1630 or THE 1000	History of Art I or Appreciation of Music or Intro to Theatre	3	ART 1180 or MUSIC 1150 or THEATRE 1190	Art Appreciation or Music Appreciation or Theatre via Video	3
ENG 2330 or ENG 2430 or ENG 2492	English Literature I or American Literature I or Women's Literature or other literature	3	ENGLISH 1211 or ENGLISH 1221 or ENGLISH 2242	British Literature I: The Beginnings to 1800 or American Literature: 1600 to 1865 or Literature by Women 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.

MAT 2330	Differential Equations	3	MATH 3304	Elementary Differential Equations	3
BIO 1150* or BIO 1100	General Biology* (5) or Intro to Biological Science (3)	3	BIO SCI 1113, 1219* or BIO SCI 1113	General Biology (3) and Lab* (2) or General Biology (3) (no lab)	3
PHS 1200	Intro to Astronomy	3	PHYSICS 1505	Introductory Astronomy	3
					Will be substituted for PHYSICS 1605.

Teacher Certification Requirements

Take all courses.

EDU 2040	Foundations of Education	3	EDUC 1074	Education in a Diverse Society	3
EDU 2100	Teaching Profession with Field Experience	3	EDUC 1104	Teacher Field Experience I	1
EDU 2320	Educational Psychology	3	EDUC 2102 or PSYCH 2300	Educational Psychology	3
PSY 1250	Human Growth and Development	3	PSYCH 3310	Developmental Psychology	3
EDU 2500	Education of Exceptional Learner	3	EDUC 2310 or PSYCH 4310	Education of the Exceptional Child or Psychology of the Exceptional Child	3
		Total Hours	15		
				Total Hours	13

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.

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