

Mineral Area College — Missouri S&T

Applied Math 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 or ENG 1440	English Composition II or Public Speaking	3	ENGLISH 1160 or SPMS 1185	Writing and Research or Principles of Speech	3		
		Total Hours	6			Total Hours	6

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		
PHYS 1350 or BIO 1150	General Chemistry I or General Biology	5	CHEM 1310, 1319* or BIO SCI 1113, 1219*	General Chemistry I (4) and Lab* (1) or General Biology* (3) and Lab* (1) Satisfies the 3-hour science requirement. Credit hours apply to degree totals as indicated for each course.. CHEM 1319 and BIO SCI 1219 are not degree requirements, will transfer as general elective credit.	3		
		Total Hours	24			Total Hours	19

Social Sciences

Take all courses.

HIS 1230 or HIS 1240	American History I or American History II	3	HISTORY 1300 or HISTORY 1310	American History to 1877 or American History Since 1877	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

Select one course.

ART 1490	History of Art I	3	ART 1180	Art Appreciation	3		
MUS 1630	Appreciation of Music	3	MUSIC 1150	Music Appreciation	3		
THE 1000	Intro to Theatre	3	THEATRE 1190	Theatre via Video	3		
ENG 2330 or ENG 2430	English Literature I or American Literature I or other non-prerequisite literature	3	ENGLISH 1211 or ENGLISH 1221	British Literature I: The Beginnings to 1800 or American Literature: 1600 to 1865 or other non-prerequisite literature	3		
		Total Hours	3			Total Hours	3

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
CSC 1100	Programming Logic	3	CS 1500	Computational Problem Solving	3

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.

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.