

Ozarks Technical Community College — Missouri S&T

Applied Math BS with Secondary Education Teacher Certification

Transfer Guide Effective as of Fall 2025

Ozarks Technical Community College

Missouri S&T

Communication Skills

Take all courses.

ENG 101	Composition I	3	ENGLISH 1120	Exposition and Argumentation	3
ENG 102 or COM 105	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.

MTH 140	Analytical Geometry/Calculus I	5	MATH 1214	Calculus I	4
MTH 141	Analytical Geometry/Calculus II	5	MATH 1215	Calculus II	4
MTH 240	Analytical Geometry/Calculus III	5	MATH 2222	Calculus III	4
PHY 220	Physics for Engineers and Scientists I	5	PHYSICS 1135	Engineering Physics I	4
CHEM 160, 161 or BIO 100 or BIO 160 or PHY 110	General Chemistry I (5) or Life Science (4) or General Biology I (4) or Intro to Geology (4)	4	CHEM 1310, 1319* or BIO SCI 1113, 1219* or GEOLOGY 1110	General Chemistry I (4) and Lab* (1) or General Biology* (3) and Lab* (1) or Physical and Environmental Geology (3) 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.

HST 120 or HST 130	US History I: to 1865 or US History II: 1865-Present	3	HISTORY 1300 or HISTORY 1310	American History to 1877 or American History Since 1877	3
PLS 101	American Government and Politics	3	POL SCI 1200	American Government	3
PSY 110	Intro to Psychology	3	PSYCH 1101	General Psychology	3
		Total Hours	9		
				Total Hours	9

Humanities

Select one course.

ART 100	Art and Experience	3	ART 1180	Art Appreciation	3
MUS 105	Western Music Appreciation	3	MUSIC 1150	Music Appreciation	3
THR 101	Intro to Theater	3	THEATRE 1190	Theatre via Video	3
ENG 240 or ENG 270 or ENG 260	Survey of English Literature I or Survey of American Literature I or Survey of World Literature I or other non-prerequisite 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 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.

MTH 241	Differential Equations	3	MATH 3304	Elementary Differential Equations	3
MHT 230	Linear Algebra	3	MATH 3108	Linear Algebra	3
CSC 160 or CSC 210	Python Programming I (3) or Data Structures (4)	3	CS 1500	Computational Problem Solving	3

Teacher Certification Requirements

Take all courses.

EDU 220	Foundations of Education	3	EDUC 1074	Education in a Diverse Society	2
EDU 270	Teaching Profession with Field Experience	3	EDUC 1104	Teacher Field Experience I	1
EDU 250	Educational Psychology	3	EDUC 2102 or PSYCH 2300	Educational Psychology	3
PSY 130	Life Span Developmental Psychology	3	PSYCH 3310	Developmental Psychology	3
EDU 260	Education 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	12

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.