

# Moberly Area Community College — Missouri S&T

## Applied Math BS with Secondary Education Teacher Certification

Transfer Guide Effective as of Fall 2025

### Moberly Area Community College

### Missouri S&T

#### Communication Skills

Take all courses.

LAL 101	Composition I	3	ENGLISH 1120	Exposition and Argumentation	3
LAL 102 or SPK 101	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 201	Analytic Geometry and Calculus I	5	MATH 1214	Calculus I	4
MTH 202	Analytic Geometry and Calculus II	5	MATH 1215	Calculus II	4
MTH 203	Analytic Geometry and Calculus III	5	MATH 2222	Calculus III	4
PHY 201	Engineering Physics I	5	PHYSICS 1135	Engineering Physics I	4
PHY 121 or BIO 101 or BIO 155 or PHY 163	General Chemistry I (5) or Biology (4) or General Biology for Majors I (4) or Geology (4)	4	CHEM 1310, 1319* or BIO SCI 1113, 1219* or BIO SCI 1213*, 1219* or GEOLOGY 1110	General Chemistry I (4) and Lab* (1) or General Biology* (3) and Lab* (1) Principles of Biology (3) and Lab*(3) or Physical and Environmental Geology (3) Satisfies the 3-hour science requirement. Credit hours apply to degree totals as indicated for each course. *BIO SCI 1213 will be substituted for 1113. 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 105 or HST 106	American History to 1865 or American History fromn 1865	3	HISTORY 1300 or HISTORY 1310	American History to 1877 or American History Since 1877	3
PCS 105	Intro to American Government	3	POL SCI 1200	American Government	3
PSY 101	General Psychology	3	PSYCH 1101	General Psychology	3
		Total Hours	9		
				Total Hours	9

#### Humanities

Select one course.

ART 101 or ART 102	Art Survey and Appreciation I or Art Survey and Appreciation II	3	ART 1180	Art Appreciation	3
MUS 101 or MUS 102	Fundamentals of Music or Music Appreciation	3	MUSIC 1150	Music Appreciation	3
DRM 120	Theatre Appreciation	3	THEATRE 1190	Theatre via Video	3
LAL 150 or LAL 120 or LAL 210	English Literature Survey to 1750 or American Literature Survey to 1870 or A 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 250	Differential Equations	3	MATH 3304	Elementary Differential Equations	3
ITC 125 or ITC 243 or ITC 244 or ITC 247	Object Oriented Programming I or Object Oriented Programming II: Java or Object Oriented Programming II: C# or Python Programming	3	CS 1500	Computational Problem Solving	3

#### Teacher Certification Requirements

Take all courses.

EDU 220	Foundations of Education in a Diverse Society	3	EDUC 1074	Education in a Diverse Society	3
EDU 225	Teaching Profession with Field Experience	3	EDUC 1104	Teacher Field Experience I	1
EDU 245	Educational Psychology	3	EDUC 2102 or PSYCH 2300	Educational Psychology	3
PSY 205	Human Lifespan Development	3	PSYCH 3310	Developmental Psychology	3
EDU 242	Educational of Exceptional Learners	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.