

# State Fair Community College — Missouri S&T

## Applied Math BS with Secondary Education Teacher Certification

Transfer Guide Effective as of Fall 2025

### State Fair Community College

### Missouri S&T

#### Communication Skills

Take all courses.

ENGL 101	English Composition I	3	ENGLISH 1120	Exposition and Argumentation	3
ENGL 102 or COM 101	English Composition II or Public Speaking	3	ENGLISH 1160 or SPMS 1185	Writing and Research or Principles of Speech	3
		Total Hours			Total Hours
		6			6

#### Mathematics and Science

Take all courses.

MATH 130	Calculus and Analytic Geometry I	5	MATH 1214	Calculus I	4
MATH 131	Calculus and Analytic Geometry II	5	MATH 1215	Calculus II	4
MATH 132	Calculus and Analytic Geometry III	5	MATH 2222	Calculus III	4
PHYS 118	General Physics I with Lab	5	PHYSICS 1135	Engineering Physics I	4
CHEM 123 or BIO 112 or BIO 125 or EASC 106	General Chemistry I with Lab (5) or Principles of Biology with Lab or General Biology (4) MOTR BIOL 150L or Physical Geology with Lab (5)	5	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) or Principles of Biology (3) and Lab*(3) MOTR BIOL 150L 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			Total Hours
		25			19

#### Social Sciences

Take all courses.

HIST 101 or HIST 102	US History Before 1877 or US History Since 1877	3	HISTORY 1300 or HISTORY 1310	American History to 1877 or American History Since 1877	3
POLS 101	American/National Government	3	POL SCI 1200	American Government	3
PSY 101	General Psychology	3	PSYCH 1101	General Psychology	3
		Total Hours			Total Hours
		9			9

#### Humanities

Select one course.

ART 101	Art Appreciation	3	ART 1180	Art Appreciation	3
MUS 101	Music Appreciation	3	MUSIC 1150	Music Appreciation	3
THEA 107	Intro to Theatre	3	THEATRE 1190	Theatre via Video	3
LIT 109 or LIT 107 or LIT 112	British Literature or American Literature or World Literature 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			Total Hours
		3			3

#### Additional Degree Requirements

Select additional courses to total up to the maximum transfer credit hours shown below.

MATH 134	Differential Equations	3	MATH 3304	Elementary Differential Equations	3
CIS 120 or CIS 155 or	Programming in Python or Programming in C#	3	CS 1500	Computational Problem Solving	3

#### Teacher Certification Requirements

Take all courses.

EDUC 209	Foundations of Education	3	EDUC 1074	Education in a Diverse Society	3
EDUC 205	Teaching Profession with Field Experience	3	EDUC 1104	Teacher Field Experience I	1
EDUC 220	Educational Psychology	3	EDUC 2102 or PSYCH 2300	Educational Psychology	3
PSY 210	Lifespan Development	3	PSYCH 3310	Developmental Psychology	3
EDUC 228	Education of Exceptional Learners Pre K-12	3	EDUC 2310 or PSYCH 4310	Education of the Exceptional Child or Psychology of the Exceptional Child	3
		Total Hours			Total Hours
		15			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.

Students must  
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