

# State Fair Community College — Missouri S&T

## Applied Mathematics BS Transfer Guide

Effective as of Fall 2017

### 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	English Composition II	3	ENGLISH 1160	Writing and Research	3
SPTH 101	Public Speaking <small>(Required for AA degree.)</small>	3	SPMS 1185	Principles of Speech <small>(Will apply to B.S. degree as free elective)</small>	3
<b>Total Hours</b>					<b>9</b>
					<b>Total Hours</b>
					<b>9</b>

#### Mathematics and Science (Take all courses)

MATH 130	Calculus and Analytical Geometry I	5	MATH 1214	Calculus for Engineers I	4
MATH 131	Calculus and Analytical Geometry II	5	MATH 1215	Calculus for Engineers II	4
MATH 132	Calculus and Analytical Geometry III	5	MATH 2222	Calculus with Analytic Geometry III	4
PHYS 118	General Physics I with Lab	5	PHYSICS 1135	Engineering Physics I	4
PHYS 119	General Physics II with Lab	5	PHYSICS 2135	Engineering Physics II	4
<b>Total Hours</b>					<b>25</b>
					<b>Total Hours</b>
					<b>20</b>

#### Social Sciences (Take all courses)

HIST 109 or HIST 101 or HIST 102 or POLS 101	World Civilization After 1500 or US History Before 1877 or US History Since 1877 or American/National Government <small>(At least one of these courses is required to satisfy state requirement)</small>	3	HISTORY 1200 or HISTORY 1300 or HISTORY 1310 or POL SCI 1200	Modern western Civilization or American History to 1877 or American History Since 1877 or American Government <small>(At least one of these courses is required to satisfy state requirement)</small>	3
ECON 102 or ECON 101	Principles of Microeconomics or Principles of Macroeconomics	3	ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomics Other economics, history, political science, sociology, psychology elective	3
<i>See your advisor for course options</i>					
<b>Total Hours</b>					<b>6</b>
					<b>Total Hours</b>
					<b>9</b>

#### Humanities (Take all courses)

<i>See your advisor for course options</i>					
	Foreign Language <small>(2 semesters of same language)</small>	6		Literature Elective	3
<b>Total Hours</b>					<b>9</b>
					<b>Total Hours</b>
					<b>9</b>

#### Additional Degree Requirements (Select up to 17 hours)

MATH 134	Differential Equations	3	MATH 3304	Elementary Differential Equations	3
CHEM 123 or BIO 125	General Chemistry I with Lab or Biology I with Lab	5	CHEM 1310, 1319 or BIO SCI 1113, 1219	General Chemistry I and Lab or General Biology and Lab	5
CIS 155	Programming in C+	3	CS 1570	Intro to Programming (C++)	3
<b>Total Hours</b>					<b>17</b>
					<b>Total Hours</b>
					<b>17</b>

#### Maximum credit hours to be transferred to Missouri S&T degree requirements.

**72**

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.