

# Moberly Area Community College — Missouri S&T

## Applied Mathematics BS Transfer Guide

Effective as of Fall 2017

### Partner School

### Missouri S&T

#### Communication Skills (Take all courses)

LAL 101	English I	3	ENGLISH 1120	Exposition and Argumentation	3
LAL 102	Exposition	3	ENGLISH 1160	Writing and Research	3
SPK 101	Public Speaking (Required for AA degree)	3	SPMS 1185	Principles of Speech (Will apply to B.S. degree as free elective)	3
Total Hours					9
					Total Hours
					9

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

MTH 201	Analytic Geometry and Calculus I	5	MATH 1214	Calculus for Engineers I	4
MTH 202	Analytic Geometry and Calculus II	5	MATH 1215	Calculus for Engineers II	4
MTH 203	Analytic Geometry and Calculus III	5	MATH 2222	Calculus with Analytic Geometry III	4
PHY 201	College Physics I	5	PHYSICS 1135	Engineering Physics I	4
PHY 202	College Physics II	5	PHYSICS 2135	Engineering Physics II	4
Total Hours					25
					Total Hours
					20

#### Social Sciences (Take all courses)

HST 102 or HST 105 or HST 106 or PSC 103 or PSC 105	Western Civilization II or American History to 1865 or American History from 1865 or American Government or Functions & Policies of American Government (At least one of these courses is required to satisfy state requirement)	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 (At least one of these courses is required to satisfy state requirement)	3
ECN 102 or ECN 101	Microeconomics or Macroeconomics  <i>See your advisor for course options</i>	3	ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomics Other economics, history, political science, sociology, psychology elective	3 3
Total Hours					6
					Total Hours
					9

#### Humanities (Take all courses)

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

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

MTH 250	Differential Equations	3	MATH 3304	Elementary Differential Equations	3
MTH 220	Probability and Statistics-Calc Based	3	STAT 3115	Engineering Statistics	3
PHY 121 or BIO 101	General Chemistry I or Biology (Required for AA degree)	5	CHEM 1310, 1319 or BIO SCI 1113, 1219	General Chemistry I and Lab or General Biology and Lab	5
CIT 205 or CIT 105	Programming II or Programming I	3	CS 1570, 1580 or CS 1970, 1980 or CS 1971, 1981	Intro to Programming or Basic Scientific Programming and Lab or Intro to Programming Methodology and Lab	3
Total Hours					17
					Total Hours
					17

#### 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.