## Missouri S&T — Ozarks Technical College
### Applied Mathematics BS Transfer Guide

**Effective Fall 2014**

The following course work will apply to Missouri S&T degree requirements as outlined below. Students are not required to complete all course work before transferring to Missouri S&T.

### OTC # | Title | Hours | S&T # | Title | Hours
--- | --- | --- | --- | --- | ---
ENG 101 | Composition I | 3 | ENGLISH 1120 | Exposition and Argumentation | 3
ENG 102 | Composition II | 3 | ENGLISH 1160 | Writing and Research | 3
COM 105 | 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

### Mathematics and Science (Take all courses)

| OTC # | Title | Hours | S&T # | Title | Hours |
--- | --- | --- | --- | --- | ---
MTH 140 | Analytical Geometry/Calculus I | 5 | MATH 1208 | Calculus with Analytic Geometry I | 5
MTH 141 | Analytical Geometry/Calculus II | 5 | MATH 1221 | Calculus with Analytic Geometry II | 5
MTH 240 | Analytical Geometry/Calculus III | 5 | MATH 2222 | Calculus with Analytic Geometry III | 5
PHY 220 | Physics for Engineers and Scientists I | 5 | PHYSICS 1111, 1119 | General Physics I and Lab | 5
PHY 222 | Physics for Engineers and Scientists II | 5 | PHYSICS 2111, 2119 | General Physics II and Lab | 5

**Total Hours:** 25

### Social Sciences (Take all courses)

| OTC # | Title | Hours | S&T # | Title | Hours |
--- | --- | --- | --- | --- | ---
HST 102 or HST 120 | Western Civilization 1350 to Present or First American to War or Reconstruction to the Present or American Government Politics | 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
PLS 101 | | | | | |
ECO 275 or ECO 270 | Principles of Microeconomics or Principles of Macroeconomics | 3 | ECON 1100 or ECON 1200 | Principles of Microeconomics or Principles of Macroeconomics | 3

**See your advisor for course options**

**Total Hours:** 9

### Humanities (Take all courses)

| OTC # | Title | Hours | S&T # | Title | Hours |
--- | --- | --- | --- | --- | ---
ECO 275 or ECO 270 | Principles of Microeconomics or Principles of Macroeconomics | 3 | ECON 1100 or ECON 1200 | Principles of Microeconomics or Principles of Macroeconomics | 3

**See your advisor for course options**

**Total Hours:** 9

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

| OTC # | Title | Hours | S&T # | Title | Hours |
--- | --- | --- | --- | --- | ---
MTH 241 | Differential Equations | 3 | MATH 3304 | Elementary Differential Equations | 3
MTH 230 | Linear Algebra | 3 | MATH 3108 | Linear Algebra | 3
CHM 160, 161 or BIO 160 | General Chemistry or General Biology | 5 or 4 | CHEM 1310, 1319 or BIO SCI 1113, 1219 | General Chemistry I and Lab or General Biology and Lab | 5
CIS 140 | C++ Programming I | 3 | CS 1971, 1981 | Intro to Programming Methodology and Lab | 3

**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.

This transfer guide is published by Missouri University of Science and Technology and is in effect as of the 2014/2015 academic year. Further information or updates are available from Missouri S&T Transfer Admissions at transfer.mst.edu, transfer@mst.edu, or 800-522-0938.