

# St. Louis Community College — Missouri S&T

## Geology and Geophysics BS Transfer Guide

Effective as of Fall 2023

### St. Louis Community College

### Missouri S&T

#### Communication Skills (Take all courses)

|         |  |             |                                 |  |   |             |   |
|---------|--|-------------|---------------------------------|--|---|-------------|---|
| ENG 101 | College Composition I                          | 3           | ENGLISH 1120                    | Exposition and Argumentation                                     | 3 |             |   |
| ENG 102 | College Composition II                         | 3           | ENGLISH 1160 or<br>ENGLISH 3560 | Writing and Research or<br>Technical Writing                     | 3 |             |   |
| COM 107 | Public Speaking<br>(if required for AA degree) | 3           | SPMS 1185                       | Principles of Speech<br>(Applies to S&T degree as free elective) | 3 |             |   |
|         |  | Total Hours | 9                               |  |   | Total Hours | 9 |

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

|                                  |   |   |                                |                                    |   |
|----------------------------------|---|---|--------------------------------|------------------------------------|---|
| MTH 210                          | Analytical Geometry and Calculus I                                  | 5 | MATH 1214                      | Calculus I                         | 4 |
| MTH 220                          | Analytical Geometry and Calculus II                                 | 5 | MATH 1215                      | Calculus II                        | 4 |
| CHM 105                          | General Chemistry I   | 5 | CHEM 1310, 1319                | General Chemistry I and Lab        | 5 |
| PHY 122                          | Engineering Physics   | 5 | PHYSICS 1135                   | Engineering Physics I              | 4 |
| PHY 223                          | Engineering Physics II  | 5 | PHYSICS 2135                   | Engineering Physics II             | 4 |
| GEO 111                          | Physical Geology  | 3 | GEOLOGY 1110<br>(GEO ENG 1150) | Physical and Environmental Geology | 3 |
| IS 167 or<br>IS 187 or<br>IS 280 | C++ Programming I (4) or<br>Java Programming I (4) or<br>Python (3) | 3 | CS 1500                        | Computational Problem Solving      | 3 |
| Total Hours 31                   |   |   | Total Hours 27                 |                                    |   |

#### Social Sciences (Take all courses)

|   |   |        |   |  |        |   |
|---|---|--------|---|--|--------|---|
| HST 128 or<br>HST 101 or<br>HST 102 or<br>PSC 101 | Western Civilization 1500 to Present or<br>US History to 1865 or<br>US History 1865 to Present or<br>Intro to American Politics<br>(At least one of these courses is required to satisfy state requirement) | 3      | HISTORY 1200 or<br>HISTORY 1300 or<br>HISTORY 1310 or<br>POL SCI 1200 | Modern Western Civilization or<br>American History to 1877 or<br>American History Since 1877 or<br>American Government<br>(At least one of these courses is required to satisfy state requirement) | 3      |   |
| ECO 152 or<br>ECO 151                             | Principles of Microeconomics or<br>Principles of Macroeconomics<br>Other economics, history, political science, sociology,<br>psychology elective   | 3<br>3 | ECON 1100 or<br>ECON 1200   | Principles of Microeconomics or<br>Principles of Macroeconomics<br>Other economics, history, political science, sociology,<br>psychology elective  | 3<br>3 |   |
| Total Hours                                       |   |        | 9   | Total Hours  |        | 9 |

#### Humanities (Select 6 hours)

|         |  |             |              |  |   |             |   |
|---------|--|-------------|--------------|--|---|-------------|---|
| ART 100 | Art Appreciation                                   | 3           | ART 1180     | Art Appreciation                                   | 3 |             |   |
| MUS 114 | Music Appreciation                                 | 3           | MUSIC 1150   | Music Understanding and Appreciation               | 3 |             |   |
| THT 101 | Intro to Theatre                                   | 3           | THEATRE 1190 | Theatre via Video                                  | 3 |             |   |
| ENG 210 | British Literature I                               | 3           | ENGLISH 1211 | British Literature I: The Beginnings to 1800       | 3 |             |   |
| ENG 204 | American Literature I                              | 3           | ENGLISH 1221 | American Literature: 1600 to 1865                  | 3 |             |   |
| ENG 231 | World Literature                                   | 3           | ENGLISH 1231 | World Literature I                                 | 3 |             |   |
| ENG 216 | Women in Literature                                | 3           | ENGLISH 2242 | Literature by Women                                | 3 |             |   |
| ENG 217 | Major Black Writers                                | 3           | ENGLISH 2245 | African American Literature                        | 3 |             |   |
| PHL 101 | Intro to Philosophy                                | 3           | PHILOS 1105  | Intro to Philosophy                                | 3 |             |   |
|         | Other fine art, literature, or philosophy elective | 3           |              | Other fine art, literature, or philosophy elective | 3 |             |   |
|         |  | Total Hours | 6            |  |   | Total Hours | 6 |

#### Additional Degree Requirements

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

|         |  |   |              |   |   |
|---------|--|---|--------------|---|---|
| MTH 230 | Analytical Geometry and Calculus III               | 5 | MATH 2222    | Calculus III (Transfers as required science elective)                         | 4 |
| MTH 240 | Differential Equations                             | 3 | MATH 3304    | Elementary Differential Equations<br>(Transfers as required science elective) | 3 |
| CHM 106 | General Chemistry II                               | 5 | CHEM 1320    | General Chemistry II (Transfers as required science elective)                 | 3 |
| BIO 140 | Principles of Biology                              | 4 | BIO SCI 1113 | General Biology (Transfers as required science elective)                      | 3 |
|         | Other science, mathematics, or engineering course. | 3 |              | Other science, mathematics, or engineering course.                            | 3 |

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

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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.