

# St. Charles Community College — Missouri S&T

## Biological Sciences BS Transfer Guide

Effective as of Fall 2017

### St. Charles Community College

### Missouri S&T

#### Communication Skills (Take all courses)

|                    |   |   |              |   |   |
|--------------------|---|---|--------------|---|---|
| ENG 101            | English Composition I                           | 3 | ENGLISH 1120 | Exposition and Argumentation  | 3 |
| ENG 102            | English Composition II                          | 3 | ENGLISH 1160 | Writing and Research  | 3 |
| SPE 101            | Oral Communications<br>(Required for AA degree) | 3 | SPMS 1185    | Principles of Speech<br>(Not required for S&T degree. Transfers as a free elective) | 3 |
| <b>Total Hours</b> |   |   | <b>9</b>     |   |   |

#### Social Sciences (Select 9 credit hours to include one course to satisfy state requirement)

|   |   |   |   |   |   |
|---|---|---|---|---|---|
| HIS 101 or<br>HIS 102 or<br>HIS 146 or<br>POL 101 | US History to 1877 or<br>US History Since 1877 or<br>Western Civilization of Modern Europe or<br>American Government<br><small>(At least one of these courses is required to satisfy state requirement)</small> | 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><small>(At least one of these courses is required to satisfy state requirement)</small> | 3 |
| ECO 120 or<br>ECO 110                             | Principles of Microeconomics or<br>Principles of Macroeconomics   | 3 | ECON 1100 or<br>ECON 1200   | Principles of Microeconomics or<br>Principles of Macroeconomics   | 3 |
| PSY 101   | Introduction to Psychology  | 3 | PSYCH 1101  | General Psychology<br>Other economics, history, political science,<br>sociology, psychology elective.   | 3 |
| <i>See your advisor for course options</i>        |   |   |   |   |   |
| <b>Total Hours</b>                                |   |   | <b>9</b>  |   |   |

#### Humanities (Select 6 hours)

|  |   |   |  |  |   |
|--|---|---|--|--|---|
| ART 1001                                   | Art Appreciation                        | 3 | ART 1180   | Art Appreciation                             | 3 |
| MUS 111                                    | Music Appreciation                      | 2 | MUSIC 1150   | Music Understanding and Appreciation         | 3 |
| THE 122                                    | Introduction to Theatre                 | 3 | THEATRE 1190                                       | Theatre Appreciation                         | 3 |
| LIT 250                                    | English Literature Before 1800          | 3 | ENGLISH 1211                                       | British Literature I: The Beginnings to 1800 | 3 |
| LIT 210                                    | American Literature From 1620 - 1865    | 3 | ENGLISH 1221                                       | American Literature: 1600 to 1865            | 3 |
| LIT 220                                    | American Literature From 1865 - Present | 3 | ENGLISH 1222                                       | American Literature: 1865 to Present         | 3 |
| PHL 101                                    | Introduction to Philosophy              | 3 | PHILOS 1105  | Intro to Philosophy                          | 3 |
| <i>See your advisor for course options</i> |   |   | Other fine art, literature, or philosophy elective |  |   |
| <b>Total Hours</b>                         |   |   | <b>6</b>   |  |   |

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

|                            |   |   |                                       |   |   |
|----------------------------|---|---|---------------------------------------|---|---|
| MAT 180                    | Calculus and Analytic Geometry I                        | 5 | MATH 1214                             | Calculus for Engineers I                                | 4 |
| CHM 115                    | General Chemistry I and Lab                             | 5 | CHEM 1310, 1319                       | General Chemistry I and Lab                             | 5 |
| CHM 116                    | General Chemistry II and lab                            | 5 | CHEM 1320                             | General Chemistry II                                    | 3 |
| CHM 240, 243               | Organic Chemistry I and Lab                             | 3 | CHEM 2210, 2219, 2229                 | Organic Chemistry I and Lab I & II                      | 5 |
| CHM 241                    | Organic Chemistry II                                    | 5 | CHEM 2220                             | Organic Chemistry II                                    | 3 |
| PHY 150, 153<br>or PHY 250 | General Physics and Lab or<br>Engineering Physics I     | 5 | PHYSICS 1145, 1119 or<br>PHYSICS 1135 | College Physics I and Lab or<br>Engineering Physics I   | 5 |
| PHY 151, 154<br>or PHY 251 | General Physics II and Lab or<br>Engineering Physics II | 5 | PHYSICS 2145, 2119 or<br>PHYSICS 2135 | College Physics II and Lab or<br>Engineering Physics II | 5 |
| BIO 150                    | General Biology   | 4 | BIO SCI 1113, 1219                    | General Biology and Lab                                 | 5 |
| <b>Total Hours</b>         |   |   | <b>37</b>                             |   |   |

#### Additional Degree Requirements (Select up to 6 hours)

|                    |                         |   |   |   |   |
|--------------------|-------------------------|---|---|---|---|
| BIO 151            | General Biology II      | 5 | BIO SCI 1223, 1229 or<br>Gen Biology II | Biodiversity and Lab or<br>Principles of Biology II | 4 |
| BIO 120            | Introduction to Ecology | 3 | BIO SCI 2263                            | Ecology   | 3 |
| <b>Total Hours</b> |                         |   | <b>6</b>                                |   |   |

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

**70**

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.