

# St. Louis Community College — Missouri S&T

## Chemistry BA

Transfer Guide Effective as of Fall 2024

### 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     | Writing and Research  | 3  |
| Foreign Language | Foreign Language<br>3 semesters of same language OR 2 semesters of each of two different languages. | 12 | Foreign Language | Foreign Language<br>3 semesters of same language OR 2 semesters of each of two different languages. | 12 |
| Total Hours      |   |    | Total Hours      |   |    |
| 18               |   |    | 18               |   |    |

#### Mathematics and Sciences

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 |
| CHM 106     | General Chemistry II                | 5 | CHEM 1320,1510  | General Chemistry II and Qualitative Analysis | 5 |
| Total Hours |                                     |   | Total Hours     |   |   |
| 20          |                                     |   | 18              |   |   |

#### Humanities

Select up to 9 hours to include at least one literature course.

|   |   |   |   |  |   |
|---|---|---|---|--|---|
| ENG 211 or<br>ENG 204 or<br>ENG 231 or<br>ENG 216 or<br>ENG 217 | British Literature II or<br>American Literature I or<br>World Literature or<br>Women in Literature or<br>Major Black Writers<br>or other literature | 3 | ENGLISH 1212 or<br>ENGLISH 1221 or<br>ENGLISH 1231 or<br>ENGLISH 2242 or<br>ENGLISH 2245 or | British Literature II: 1800 to Present or<br>American Literature: 1600 to 1865 or<br>World Literature I or<br>Literature by Women or<br>African American Literature<br>or other literature | 3 |
| ART 100 or<br>MUS 114 or<br>THT 101                             | Art Appreciation or<br>Music Appreciation or<br>Intro to Theatre or other fine art  | 3 | ART 1180 or<br>MUSIC 1150 or<br>THEATRE 1190  | Art Appreciation or<br>Music Appreciation or<br>Theatre via Video or other fine art  | 3 |
| PHL 101   | Intro to Philosophy or other philosophy   | 3 | PHILOS 1105   | Self and World: Intro to Philosophy<br>or other philosophy   | 3 |
| Humanities Elective   | Other fine art, literature, or philosophy   | 3 | Humanities Elective   | Other fine art, literature, or philosophy  | 3 |
| Total Hours   |   |   | Total Hours   |  |   |
| 9   |   |   | 9   |  |   |

#### Social Sciences

Select up to 12 hours in two areas to include History 1100 and 1200.

|                       |  |   |                           |  |   |
|-----------------------|--|---|---------------------------|--|---|
| HST 115               | Ancient and Medieval History to 1500                                     | 3 | HISTORY 1100              | Early Western Civilization <small>required</small>                       | 3 |
| HST 128               | Western Civilization 1500 to Present                                     | 3 | HISTORY 1200              | Modern Western Civilization <small>required</small>                      | 3 |
| ECO 152 or<br>ECO 151 | Principles of Microeconomics or<br>Principles of Macroeconomics          | 3 | ECON 1100 or<br>ECON 1200 | Principles of Microeconomics or<br>Principles of Macroeconomics          | 3 |
| PSC 101               | Intro to American Politics   | 3 | POL SCI 1200              | American Government  | 3 |
| PSY 200               | General Psychology   | 3 | PSYCH 1101                | General Psychology   | 3 |
| HST 101               | US History to 1865   | 3 | HISTORY 1300              | American History to 1877   | 3 |
| HST 102               | US History 1865 to Present   | 3 | HISTORY 1310              | American History since 1877  | 3 |
| Social Science        | Other history, economics, political science,<br>psychology, or sociology | 3 | Social Science            | Other history, economics, political science,<br>psychology, or sociology | 3 |
| Total Hours           |  |   | Total Hours               |  |   |
| 12                    |  |   | 12                        |  |   |

#### Additional Degree Requirements

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

|              |                                    |   |                 |                              |   |
|--------------|------------------------------------|---|-----------------|------------------------------|---|
| CHM 206, 210 | Organic Chemistry I and Lab        | 5 | CHEM 2210, 2219 | Organic Chemistry I and Lab  | 4 |
| CHM 207, 211 | Organic Chemistry II and Lab       | 5 | CHEM 2220, 2229 | Organic Chemistry II and Lab | 4 |
| MTH 230      | Analytic Geometry and Calculus III | 5 | MATH 2222       | Calculus III                 | 4 |
| PHY 122      | Engineering Physics I              | 5 | PHYSICS 1135    | Engineering Physics I        | 4 |
| PHY 223      | Engineering Physics II             | 5 | PHYSICS 2135    | Engineering Physics II       | 4 |

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

**61**

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.