

Ozarks Technical College — Missouri S&T

Chemistry BA with Secondary Education Teacher Certification Transfer Guide

Effective as of Fall 2020

Ozarks Technical College

Missouri S&T

Communication Skills (Take all courses)

| | | | | | |
|-------------|-----------------|---|--------------|------------------------------|---|
| 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 | 3 | SPMS 1185 | Principles of Speech | 3 |
| Total Hours | | | Total Hours | | |
| 9 | | | 9 | | |

Social Sciences (Take all courses)

| | | | | | |
|-----------------------|---|---|---------------------------------|--|---|
| HST 120 or HST 130 | US History I: to 1865 or US History II: 1865-Present | 3 | HISTORY 1300 or HISTORY 1310 | American History to 1877 or American History since 1877 | 3 |
| PLS 101 | American Government and Politics | 3 | POL SCI 1200 | American Government | 3 |
| PSY 110 | Intro to Psychology | 3 | PSYCH 1101 | General Psychology | 3 |
| Total Hours | | | Total Hours | | |
| 9 | | | 9 | | |

Humanities (Take all courses)

| | | | | | |
|-------------------------------------|--|---|--|---|---|
| ART 100 or MUS 105 or THR 101 | Art and Experience or Western Music Appreciation or Intro to Theater | 3 | ART 1180 or MUSIC 1150 or THEATRE 1190 | Art Appreciation or Music Appreciation or Theatre Appreciation | 3 |
| PHL 101 | Intro to Philosophy | 3 | PHILOS 1105 | Intro to Philosophy | 3 |
| ENG 350 or ENG 351 | Survey of American Literature I or Survey of American Literature II | 3 | ENGLISH 1221 or ENGLISH 1222 | American Literature: 1600 to 1865 or American Literature 1865 to Present | 3 |
| Total Hours | | | Total Hours | | |
| 9 | | | 9 | | |

Mathematics and Sciences (Take all courses)

| | | | | | |
|-----------------------|--------------------------------------|---|---------------------|---|---|
| MTH 140 | Analytical Geometry/Calculus I | 5 | MATH 1214 | Calculus for Engineers I | 4 |
| MTH 141 | Analytical Geometry/Calculus II | 5 | MATH 1215 | Calculus for Engineers II | 4 |
| CHM 160, 161 | General Chemistry | 5 | CHEM 1310, 1319 | General Chemistry I and Lab | 5 |
| CHM 170, 171 | General Chemistry II | 5 | CHEM 1320, 1510 | General Chemistry II and Qualitative Analysis | 5 |
| BIO 100 or BIO 160 | Life Science or General Biology I | 4 | BIO SCI 1113, 1219* | General Biology (3) and Lab (1)* <small>*Note: BIO SCI 1219 is not an S&T degree requirement; course will transfer as elective credit.</small> | 3 |
| Total Hours | | | Total Hours | | |
| 24 | | | 21 | | |

Additional Degree Requirements (Select up to 16 hours)

| | | | | | |
|-------------|---|---|-----------------|------------------------------|---|
| PHY 220 | Physics for Engineers and Scientists I | 5 | PHYSICS 1135 | Engineering Physics I | 4 |
| PHY 222 | Physics for Engineers and Scientists II | 5 | PHYSICS 2135 | Engineering Physics II | 4 |
| CHM 242 | Organic Chemistry I | 5 | CHEM 2210, 2219 | Organic Chemistry I and Lab | 4 |
| CHM 243 | Organic Chemistry II | 5 | CHEM 2220, 2229 | Organic Chemistry II and Lab | 4 |
| Total Hours | | | Total Hours | | |
| 15 | | | 16 | | |

Teacher Certification Requirements (Take all courses)

| | | | | | |
|-------------|------------------------------------|---|---------------------------|-------------------------------------|---|
| EDU 220 | Foundations of Education | 3 | EDUC 1040 | Perspectives in Education | 2 |
| EDU 250 | Educational Psychology | 3 | PSYCH 2300 (EDUC 2102) | Educational Psychology | 3 |
| PSY 130 | Life Span Developmental Psychology | 3 | PSYCH 3310 | Developmental Psychology | 3 |
| EDU 260 | Education Exceptional Learner | 3 | PSYCH 4310 | Psychology of the Exceptional Child | 3 |
| Total Hours | | | Total Hours | | |
| 12 | | | 11 | | |

***Teacher certification notes:** An ACT of 22 or a 220 on the MoGEA is required for professional standing in the department. Students must pass the MoCA, maintain a 2.75 cumulative GPA, and a 3.0 content GPA to qualify for student teaching. Students completing this program will earn a BA in Chemistry.

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

75

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.