

Three Rivers College — Missouri S&T

Physics BS with Secondary Education Teacher Certification Transfer Guide

Effective as of Fall 2020

Three Rivers College

Missouri S&T

Communication Skills (Take all courses)

| | | | | | |
|-------------|--------------------------|---|--------------|------------------------------|---|
| ENGL 111 | College Writing | 3 | ENGLISH 1120 | Exposition and Argumentation | 3 |
| ENGL 112 | Advanced College Writing | 3 | ENGLISH 1160 | Writing and Research | 3 |
| SCOM 110 | Public Speaking | 3 | SPMS 1185 | Principles of Speech | 3 |
| Total Hours | | | Total Hours | | |
| 9 | | | 9 | | |

Mathematics and Science (Take all courses)

| | | | | | |
|-------------|--------------------------------------|---|-----------------|---|---|
| MATH 171 | Analytical Geometry and Calculus I | 5 | MATH 1214 | Calculus for Engineers I | 4 |
| MATH 271 | Analytical Geometry and Calculus II | 5 | MATH 1215 | Calculus for Engineers II | 4 |
| MATH 272 | Analytical Geometry and Calculus III | 5 | MATH 2222 | Calculus with Analytic Geometry III | 4 |
| PHYS 211 | General Physics I | 5 | PHYSICS 1135 | Engineering Physics I | 4 |
| PHYS 212 | General Physics II | 5 | PHYSICS 2135 | Engineering Physics II | 4 |
| CHEM 121 | General Chemistry I | 5 | CHEM 1310,1319 | General Chemistry I (4) and Lab (1) | 5 |
| CHEM 122 | General Chemistry II | 5 | CHEM 1320,1510* | General Chemistry II (3) and Qualitative Analysis* (2) *Note: CHEM 1510 is not an S&T degree requirement; course transfers as elective credit. | 3 |
| Total Hours | | | Total Hours | | |
| 35 | | | 28 | | |

Social Sciences (Take all courses)

| | | | | | |
|--|--|---|--|--|---|
| HIST 122 or HIST 111 or HIST 112 | World Civilization since the Renaissance or American History to 1877 or American History Since 1877 or | 3 | HISTORY 1300 or HISTORY 1310 or HISTORY 1200 | American History to 1877 or American History Since 1877 or Modern Western Civilization | 3 |
| GOVT 121 | National and State Government | 3 | POL SCI 1200 | American Government | 3 |
| PSYC 111 | General Psychology | 3 | PSYCH 1101 | General Psychology | 3 |
| Total Hours | | | Total Hours | | |
| 9 | | | 9 | | |

Humanities (Take all courses)

| | | | | | |
|---|--|---|--|---|---|
| ARTS 123 or ARTS 110 or MUSC 123 or THEA 120 | History and Appreciation of Art or Intro to Art or History and Appreciation of Music or History and Appreciation of Theatre | 3 | ART 1180 or MUSIC 1150 or THEATRE 1190 | Art Appreciation or Music Appreciation or Theatre via Video | 3 |
| ENGL 231 or ENGL 241 or ENGL 221 | English Literature to 1798 or American Literature to 1870 or World Literature to 1600 (or other literature elective) | 3 | ENGLISH 1211 or ENGLISH 1221 or ENGLISH 1231 | British Literature I: The Beginnings to 1800 or American Literature: 1600 to 1865 or World Literature I (or other literature elective) | 3 |
| Total Hours | | | Total Hours | | |
| 6 | | | 6 | | |

Additional Degree Requirements (Select up to 10 credit hours)

| | | | | | |
|-------------|-----------------------|---|--------------------|--|---|
| BIOL 101 | General Biology | 5 | BIO SCI 1113,1219* | General Biology (3) and Lab* (2) *Note: BIO SCI 1219 is not an S&T degree requirement; course will transfer as elective credit. | 3 |
| PHYS 150 | Environmental Geology | 4 | GEOLOGY 1110 | Physical and Environmental Geology | 3 |
| Total Hours | | | Total Hours | | |
| 9 | | | 6 | | |

Additional Courses for Teacher Certification Option (Take all courses)

| | | | | | |
|-------------|--|---|---------------------------|-------------------------------------|---|
| EDUC 230 | Foundations of Education | 3 | EDUC 1040 | Perspectives in Education | 2 |
| EDUC 210 | Educational Psychology | 3 | PSYCH 2300 (EDUC 2102) | Educational Psychology | 3 |
| PSYC 243 | Human Development Across the Life Span | 3 | PSYCH 3310 | Developmental Psychology | 3 |
| EDUC 260 | Education of the 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 BS in Physics.

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.