## Metropolitan Community College - Missouri S\&T <br> Physics BS with Secondary Education Teacher Certification Transfer Guide Effective as of Fall 2023

| Metropolitan Community College |  |  |  | Missouri S\&T |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Communication Skills (Take all courses) |  |  |  |  |  |  |  |
| ENGL 101 | Composition and Reading I |  | 3 | ENGLISH 1120 | Exposition and Argumentation |  | 3 |
| ENGL 102 or ENGL 215 | Composition and Reading II or Technical Writing |  | 3 | ENGLISH 1160 or ENGLISH 3560 | Writing and Research or Technical Writing |  | 3 |
| COMM 100 | Fundamentals of Speech |  | 3 | SPMS 1185 | Principles of Speech |  | 3 |
|  |  | Total Hours | 9 |  |  | Total Hours | 9 |
| Mathematics and Science (Take all courses) |  |  |  |  |  |  |  |
| MATH 180 | Analytic Geometry \& Calculus I |  | 5 | MATH 1214 | Calculus I |  | 4 |
| MATH 190 | Analytic Geometry \& Calculus II |  | 5 | MATH 1215 | Calculus II |  | 4 |
| MATH 210 | Analytic Geometry \& Calculus III |  | 4 | MATH 2222 | Calculus III |  | 4 |
| PHYS 220 | Engineering Physics I |  | 5 | PHYSICS 1135 | Engineering Physics I |  | 4 |
| PHYS 221 | Engineering Physics II |  | 5 | PHYSICS 2135 | Engineering Physics II |  | 4 |
| CHEM 111 | General College Chemistry I |  | 5 | CHEM 1310, 1319 | General Chemistry I and Lab |  | 5 |
| CHEM 112 | General College Chemistry II |  | 5 | CHEM 1320 | General Chemistry II |  | 3 |
|  |  | Total Hours | 34 |  |  | Total Hours | 28 |
| Social Sciences (Take all courses) |  |  |  |  |  |  |  |
| HIST 120 or HIST 121 or HIST 134 | United States History to 1865 or United States History since 1865 or Western Civilization II |  | 3 | HISTORY 1300 or HISTORY 1310 or HISTORY 1200 | American History to 1877 or <br> American History Since 1877 or <br> Modern Western Civilization |  | 3 |
| POLS 136 | Intro to American Politics |  | 3 | POL SCI 1200 | American Government |  | 3 |
| PSYC 140 | General Psychology |  | 3 | PSYCH 1101 | General Psychology |  | 3 |
|  |  | Total Hours | 9 |  |  | Total Hours | 9 |
| Humanities (Take all courses) |  |  |  |  |  |  |  |
| ART 108 or MUSI 108 or SPDR 106 | Survey of Art or Music Appreciation or Theater Appreciation |  | 3 | ART 1180 or MUSIC 1150 or THEATRE 1190 | Art Appreciation or Music Appreciation or Theatre via Video |  | 3 |
| ENGL 220 or ENGL 222 or ENGL 254 or ENGL 268 or ENGL 260 | British Literature to 1750 or American Literature I or World Literature I or Women's Literature or African-American Literature (or other literature elective) |  | 3 | ENGLISH 1211 or ENGLISH 1221 or ENGLISH 1231 or ENGLISH 2242 or ENGLISH 2245 or | British Literature I: The Beginnings to American Literature: 1600 to 1865 or World Literature I or Literature by Women or African American Literature (or other literature elective) | $1800 \text { or }$ | 3 |
|  |  | Total Hours | 6 |  |  | Total Hours | 6 |
| Additional Degree Requirements Select additional courses to total up to the maximum transfer credit hours shown below. |  |  |  |  |  |  |  |
| MATH 230 | Differential Equations |  | 3 | MATH 3304 | Elementary Differential Equations |  | 3 |
| BIOL 101 | General Biology |  | 5 | BIO SCI 1113 | General Biology |  | 3 |
| PHYS 106 or GEOL 101 | General Astronomy or Physical Geology |  | 4 | PHYSICS 1505 or GEOLOGY 1110 | Introductory Astronomy or Physical and Environmental Geology |  | 3 |
| Additional Courses for Teacher Certification Option (Take all courses) |  |  |  |  |  |  |  |
| EDUC 100 | Introduction to Education |  | 2 | EDUC 1040 | Perspectives in Education |  | 2 |
| EDUC 270 | Educational Psychology |  | 3 | PSYCH 2300 (EDUC 2102) | Educational Psychology |  | 3 |
| PSYC 241 | Human Development |  | 4 | PSYCH 3310 | Developmental Psychology |  | 3 |
| EDUC 285 | Education of Exceptional Learners |  | 3 | PSYCH 4310 | Psychology of the Exceptional Child |  | 3 |
| Professional Requirements for Teacher Education Program: Please view all program requirements at https://teachereducation.mst.edu/secondaryeducation/. |  |  |  |  |  |  |  |
| Maximum credit hours to be transferred to Missouri S\&T degree requirements. <br> 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. |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| This transfer guide is published by Missouri University of Science and Technology and is in effect as of Fall 2023. Further information or updates are available from Missouri S\&T Transfer Admissions at transfer.mst.edu, transfer@mst.edu, or 800-522-0938. |  |  |  |  |  |  |  |

