East Central College — Missouri S&T

Physics BS

Transfer Guide Effective as of Fall 2024

| East Central College | | | <u>Missouri S&T</u> | | | |
|---|---|--------|------------------------------|--|----------|--|
| | C | Comm | unication Skills | | | |
| | | | ke all courses. | | | |
| ENG 101 | English Composition I | 3 | ENGLISH 1120 | Exposition and Argumentation | 3 | |
| ENG 102 | English Composition II Total Hours | 3 6 | ENGLISH 1160 | Writing and Research Total Hours | 3 6 | |
| | | | atics and Science | Total Hould | <u> </u> | |
| Take all courses. | | | | | | |
| MTH 190 | Analytic Geometry & Calculus I | 5 | MATH 1214 | Calculus I | 4 | |
| MTH 210 | Analytic Geometry & Calculus II | 5 | MATH 1215 | Calculus II | 4 | |
| MTH 220 | Analytical Geometry & Calculus III | 5 | MATH 2222 | Calculus III | 4 | |
| CHM 111 | General Chemistry I and Lab | 5 | CHEM 1310, 1319 | General Chemistry I and Lab | 5 | |
| CHM 112 | General Chemistry II and Lab | 5 | CHEM 1320, 1510* | General Chemistry II (3) and Quantitative Analysis (2)* *CHEM 1510 is not an S&T degree requirement; course will transfer as elective credit. | 3 | |
| PHY 211, 212 | General Physics I and Lab | 5 | PHYSICS 1135 | Engineering Physics I | 4 | |
| PHY 221, 222 | General Physics II and Lab | 5 | PHYSICS 2135 | Engineering Physics II | 4 | |
| | Total Hours | 35 | | Total Hours | 28 | |
| | | Soc | ial Sciences | | | |
| Select 9 hours to include at least one course to satisfy the state requirement. | | | | | | |
| CIV 202 or | European Civilization II or | | HISTORY 1200 or | Modern Western Civilization or | | |
| HST 101 or | US History to 1877 or | | HISTORY 1300 or | American History to 1877 or | | |
| HST 102 or | US History Since 1877or | 3 | HISTORY 1310 or | American History Since 1877 or | 3 | |
| PSC 102 | US Government I: National and State At least one of these courses is required to satisfy a State of Missouri requirement. | Ü | POL SCI 1200 | American Government At least one of these courses is required to satisfy a State of Missouri requirement. | Ü | |
| ECO 102 or | Principles of Microeconomics or | | ECON 1100 or | Principles of Microeconomics or | | |
| ECO 101 | Principles of Macroeconomics or other economics | 3 | ECON 1200 | Principles of Macroeconomics or other economics | 3 | |
| PSY 101 | General Psychology or other psychology | 3 | PSYCH 1101 | General Psychology or other psychology | 3 | |
| Social Science | Any economics, history, political science, sociology, | 3 | Social Science | Any economics, history, political science, sociology, | 3 | |
| Coolai Colorido | psychology elective | 9 | Coolai Colonoc | psychology elective Total Hours | 9 | |
| | Total Hours | | l | Total Hours | 9 | |
| | | | lumanities | | | |
| | Select 6 credit | hours | to include at least one lite | | | |
| PHL 101 | Introduction to Philosophy or other philosophy | 3 | PHILOS 1105 | Self and World: Intro to Philosophy or other philosophy | 3 | |
| ART 101 | Art Appreciation or other fine art | 3 | ART 118 | Art Appreciation or other fine art | 3 | |
| MUS 101 | Music Appreciation or other music | 3 | MUS 1150 | Music Understanding and Appreciation or other music | 3 | |
| THE 101 | Theatre Aappreciation or other theater | 3 | THEATRE 1190 | Theatre via Video or other theater | 3 | |
| ENG 210 or | Survey British Lit: Beginnings to 1784 or | | ENGLISH 1211 or | British Literature I: The Beginnings to 1800 or | | |
| ENG 221 or | Survey American Lit: Colonial to 1865 or | | ENGLISH 1221 or | American Literature: 1600 to 1865 or | | |
| ENG 124 or | World Literature I or | 3 | ENGLISH 1231 or | World Literature I or | 3 | |
| ENG 214 or | Women's Literature or | | ENGLISH 2242 or | Literature by Women or | - | |
| ENG 215 | African-American Literature or other literature | | ENGLISH 2245 or | African American Literature or other literature | | |
| Humanities | Other fine art, literature, or philosophy elective | 3 | Humanities | Other fine art, literature, or philosophy elective | 3 | |
| | Total Hours | 6 | | Total Hours | 6 | |
| | Additio | onal E | Degree Requirements | 5 | | |
| | Select additional courses to total | | | | | |
| MTH 245 | Differential Equations | 3 | MATH 3304 | Elementary Differential Equations | 3 | |
| MTH 241 | Linear Algebra | 3 | MATH 3108 | Linear Algebra Recommended but not required; satisfies a math/stat elective requirement. | 3 | |
| EGR 251 or EGR 221,222 | Data Structures or C++ Program Engineers and Lab | 3 | CS 1500 | Computational Problem Solving | 3 | |
| Electives | Maximum Free Electives | 6 | Electives | Maximum Free Electives | 6 | |
| Maximum credit hours to be transferred to Missouri S&T degree requirements. | | | | | 60 | |
| 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. | | | | | OU. | |
| | | | | | | |

This transfer guide is published by Missouri University of Science and Technology and is in effect as of Fall 2024. Further information or updates are available from Missouri S&T Transfer Admissions at transfer.mst.edu, transfer@mst.edu, or 800-522-0938.