| St. Charles Community College |  |  | Missouri S\&T |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| English and Communication Skills |  |  |  |  |  |
| ENG 101 | English Composition I | 3 | ENGLISH 1120 | Exposition and Argumentation | 3 |
| ENG 102 or ENG 115 | English Composition II or Technical Writing | 3 | ENGLISH 1160 or <br> ENGLISH 3560 | Writing and Research or Technical Writing | 3 |
| COM 106 | Public Speaking | 3 | SPMS 1185 | Principles of Speech | 3 |
|  | Total Hours | 9 |  | Total Hours | 9 |
| Humanities |  |  |  |  |  |
| Select 9 hours to include at least one literature. |  |  |  |  |  |
| LIT 250 or | English Literature Before 1800 or |  | ENGLISH 1211 or | British Literature I or |  |
| LIT 260 or | English Literature After 1800 or |  | ENGLISH 1212 or | British Literature II or |  |
| LIT 210 or | American Literature From 1620-1865 or |  | ENGLISH 1221 or | American Literature 1600 to 1865 or |  |
| LIT 220 or | American Literature From 1865-Present or 3 |  | ENGLISH 1222 or | World Literature I or |  |
| LIT 272 or | World Lit-Ancient World thru Renaissance or African |  | ENGLISH 1231 or |  |  |
| LIT 223 | American Literature or other literature |  | ENGLISH 2245 | African American Literature or other literature | At least one literature course is required. |
| PSY 101 | Intro to Psychology | 3 | PSYCH 1101 | General Psychology | 3 |
| PHL 101 | Intro to Philosophy | 3 | PHILOS 1105 | Self and World: Intro to Philosophy | 3 |
| ART 1001 | Art Appreciation | 3 | ART 118 | Art Appreciation | 3 |
| MUS 111 | Music Appreciation | 3 | MUS 1150 | Music Understanding and Appreciation | 3 |
| THE 122 | Intro of Theatre | 3 | THEATRE 1190 | Theatre via Video | 3 |
| Foreign Language | Any foreign language | 3 | Foreign Language | Any foreign language | 3 |
| Humanities | Any fine art, English, music, theatre, philosophy or speech. | 3 | Humanities | Any fine art, English, music, theatre, philosophy or speech. | 3 |
| Social Science | Any history, political sicence, or psychology. | 3 | Social Science | Any history, political sicence, or psychology. | 3 |
|  | Total Hours 9 |  |  | Total Hours | 9 |
|  | Social Sciences |  |  |  |  |
| Take all courses. |  |  |  |  |  |
| HIS 146 or | Western Civ: Modern European Heritage or US History to 1877 or |  | HISTORY 1200 or | Modern Western Civilization or |  |
| HIS 101 or |  |  | HISTORY 1300 or | American History to 1877 or |  |
| HIS 102 or | US History to 1877 or | 3 | HISTORY 1310 or | American History Since 1877 or | 3 |
| POL 101 | American Government |  | POL SCI 1200 | American Government |  |
|  | At least one of these courses is required to satisfy state requirement. |  |  | At least one of these courses is required to satisfy state requirement. |  |
| $\begin{aligned} & \text { ECO 120* or } \\ & \text { ECO 110* } \end{aligned}$ | Principles of Microeconomics* or <br> Principles of Macroeconomics* <br> *Students pursuing the Actuarial Science emphasis take BOTH ECO110 and 120 ( 6 hours econ for a total of 9 hours social sciences). |  | ECON 1100* or ECON 1200* | Principles of Microeconomics* or |  |
|  |  |  |  | Principles of Macroeconomics* |  |
|  |  | 3 |  | *Students pursuing the Actuarial Science emphasis take BOTH ECON 1100 and 1200 ( 6 hours econ for a total of 9 hours social sciences). | 3 |
|  | Total Hours | 6 |  | Total Hours | 6 |
|  | Mathematics, Statistics, and Computer Science |  |  |  |  |
| Take all courses. |  |  |  |  |  |
| MAT 180 | Calculus and Analytic Geometry I | 5 | MATH 1214 | Calculus I | 4 |
| MAT 230 | Calculus and Analytic Geometry II | 5 | MATH 1215 | Calculus II | 4 |
| MAT 240 | Calculus and Analytic Geometry III | 5 | MATH 2222 | Calculus III | 4 |
| Mat 250 | Differential Equations | 3 | MATH 3304 | Elementary Differential Equations | 3 |
| MAT 242 | Introductory Linear Algebra | 3 | MATH 3108 | Linear Algebra | 3 |
| CPT 135 or | Comp Sci 1 With Python (4) or |  |  |  |  |
| CPT 185or <br> CPT 189 | Programming in C\# (3) or Java Programming (3) | 3 | CS 1500 | Computational Problem Solving | 3 |
| CPT 182 | Beginning Programming in $\mathrm{C}_{++}$ | 3 | CS 1570, 1580 | Intro to C++ Programming and Lab | 4 |
|  | Total Hours | 27 |  | Total Hours | 25 |
| Science |  |  |  |  |  |
| Select PHYSICS 1135 and 2 additional courses from the options below. A total of 13 hours will apply to this requirement. |  |  |  |  |  |
| PHY 250 | Engineering Physics I required | 5 | PHYSICS 1135 | Engineering Physics I required | 4 |
| PHY 251 | Engineering Physics II | 5 | PHYSICS 2135 | Engineering Physics II | 4 |
| CHM 115 | General Chemistry I | 5 | CHEM 1310, 1319 | General Chemistry I and Lab | 5 |
| CHM 116 | General Chemistry II | 5 | CHEM 1320, 1510* | General Chemistry II (3) and Qualitative Analysis (2) *Chem 1510 is not an S\&T degree reguirement. Will transer as general credit. | 3 |
| $\begin{aligned} & \text { BIO 105, } 106 \text { or } \\ & \text { BIO } 150 \end{aligned}$ | Essentials of Biology and Lab (4) or General Biology: Cells to Organisms (5) | 4 | BIO SCI 1113, 1219 or BIO SCI 1213, 1219 | General Biology or Principles of Biology | 4 |
|  | Total Hours | 13 |  | Total Hours | 13 |
| Additional Degree Requirements |  |  |  |  |  |
| Select additional courses to total up to the maximum transfer credit hours shown below. |  |  |  |  |  |
| Technical Electives | Technical electives in biology, chemistry, computer science, economics, engineering, geology, mechanics, or physics approved by advisor. | 3 | Technical Electives | Technical electives in biology, chemistry, computer science, economics, engineering, geology, mechanics, or physics approved by advisor. | 3 |
| Electives | Maximum Free Electives | 14 | Electives | Maximum Free Electives | 14 |
|  | Maximum credit hours to be transferred to Missouri S\&T degree requirements. |  |  |  | 60 |
|  | Missouri S\&T residency requirements: The last 6 Students must receive special permission from Missouri S\&T to ap Students are not required to complete | $\begin{aligned} & \text { ours } \\ & \text { ly } \\ & \text { cou } \end{aligned}$ | y Missouri S\&T degree mus an the maximum credit hou on this guide before transfer | e completed at Missouri S\&T. <br> isted above toward the Missouri S\&T degree. to Missouri S\&T. |  |

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.

