

Electrical Engineering

| Northwest Missouri State University | | | | University of Missouri-Rolla | | | | | |
|-------------------------------------|--------------------------|---|----------------------|------------------------------------|---|-------|--|----------------------|------------------------------------|
| Semester | NMSU | Title | Hours | UMR # | Title | Hours | | | |
| First | MATH 120 | Calculus I | 4 | MATH 014 | Calculus w/Analytic Geometry I | 4 | | | |
| | CHEM 114 | General Chemistry I | 3 | CHEM 001 | General Chemistry | 4 | | | |
| | CHEM 115 | General Chemistry I Lab | 1 | CHEM 002 | General Chemistry Lab | 1 | | | |
| | CS 130 | Using Computers* | 3 | CS 072 | Software Application on the PC* | 3 | | | |
| | ENGL 111 | Composition | 3 | ENG 020 | Exposition and Argumentation | 3 | | | |
| | | | Total Semester Hours | 14 | | | | Total Semester Hours | 15 |
| Second | MATH 121 | Calculus II | 4 | MATH 015 | Calculus w/Analytic Geometry II | 4 | | | |
| | HIST 155 or POLS 102 | America - A Historical Survey or Intro to American Government and Politics | 3 | HIST 175 or PS 090 | U.S. History to 1877 or American Government | 3 | | | |
| | SPCH 102 | Fundamentals of Oral Communication | 3 | SPMS 085 | Principles of Speech | 3 | | | |
| | | | | Total Semester Hours | 10 | | | | Total Semester Hours |
| Third | MATH 321 | Multivariate Calculus | 4 | MATH 022 | Calculus w/Analytic Geometry III | 4 | | | |
| | PHYS 120 and PHYS 121 | Fundamentals of Classical Physics I (4) and Lab (1) | 5 | PHYS 023 | Engineering Physics I | 4 | | | |
| | PHYS 322 | Statics*** | 3 | IDE 050 | Engineering Mechanics - Statics*** | 3 | | | |
| | | | | Humanities/Social Science Elective | 3 | | | | Humanities/Social Science Elective |
| | | | Total Semester Hours | 15 | | | | Total Semester Hours | 14 |
| Fourth | MATH 361 | Differential Equations | 3 | MATH 204 | Elementary Differential Equations | 3 | | | |
| | PHYS 230 and PHYS 231 | Fundamentals of Classical Physics II (4) and Lab (1) | 5 | PHYS 024 | Engineering Physics II | 4 | | | |
| | CS 230 | Fundamentals of Computer Science | 3 | CS 053 | Introduction to Programming | 3 | | | |
| | ECON 151 or ECON 150 | General Economics II or General Economics I | 3 | ECON 121 or ECON 122 | Principles of Microeconomics or Principles of Macroeconomics | 3 | | | |
| | | | | Total Semester Hours | 14 | | | | Total Semester Hours |

This is a guide; with the consent of your advisor you may choose to vary the sequence or combination of some courses in a manner appropriate to individual course requirements and prerequisites. A grade of "C" or better is required in calculus and physics.

*Will not count toward degree; credit and grade will transfer.