

Engineering

| Engineering | WESTERN NEW ENGLAND UNIVERSITY Engineering |
|--|--|
| GRADUATION REQUIREMENTS | EQUIVALENT COURSES |
| Semester 1 | |
| CHM 123 Principles of Chemistry for Engineering I (or) CHM 105 Principles of Chemistry I | CHEM 105 General Chemistry I |
| ENG 101 Composition I | ENGL 132 English Composition I |
| ERG 101 Engineering Design & Graph Using CAD | *ENGR 103 Intro to Engineering |
| Social Science Elective | *See below |
| MAT 233 Calculus I | MATH 133 Calculus I |
| Semester 2 | |
| CHM 124 Principles of Chemistry for Engineering II (or) CHM 104 Principles of Chemistry I | CHEM 106 (For BME and CE majors) |
| ERG 280 Engineering Computation | *ENGR 105 Computer Programming for Engineers |
| MAT 234 Calculus II | MATH 134 Calculus II |
| PHY 105 General Physics I | PHYS 133 Mechanics |
| Summer | |
| BIO 107 Biology II: Intro to Cells and Molecules | BIO 107 (For BME majors) |
| ENG 102 Composition II | ENGL 133 English Composition II |
| Semester 3 | |
| ERG 211 Introduction to Materials Science | ME 309 Material Science (For ME majors) |
| ERG 221 Statics | ME 202 Statics (For ME, CE, IE majors) |
| MAT 235 Calculus III | MATH 235 Calculus III |
| MAT 237 Probability and Stats for Engr and Science | IE 212 Probability and Statistics |
| PHY 107 General Physics II <i>(recommended)</i> | PHYS 134 Electricity and Magnetism |
| Semester 4 | |
| ERG 223 Thermodynamics | ME 303 Thermodynamics (For ME majors) |
| ERG 225 Strength of Materials | ME 208 Mechanics of Materials (For CE and ME majors) |
| MAT 238 Differential Equations | MATH 236 Differential Equations |
| MAT 245 Linear Algebra | MATH 306 (Technical Elective) |
| PHY 207 General Physics III | PHYS 301 Optics (general elective) |

*It is recommended that students take both ERG 101 and ERG 280 to earn credit for WNE's ENGR 103 and ENGR 105.

** For students interested in Electrical or Computer Engineering it is strongly recommended to take ELT 103 EC & AC Circuits and another approved Circuits II course prior to enrolling at WNE. Without these two courses it will take longer to complete the degree. Students must complete MAT 233 and 234 in order to receive credit for ELT 103.

This is not an articulation agreement. This guide should serve as a reference for Quinsigamond Community College students who eventually plan to transfer to Western New England University. A maximum of 75 semester hours may be transferred from two-year institutions.