

Engineering

ENGINEERING REQUIREMENTS FOR ENTRY INTO WESTERN NEW ENGLAND UNIVERSITY ENGINEERING PROGRAM

Berkshire Community College

| Engineering Requirements | Recommended Courses |
|--|--|
| Semester 1 | |
| CHM 101 Introductory Chemistry I | CHEM 105 General Chemistry I |
| PHY 161 Physics I: Mechanics | PHYS 133 Mechanics |
| ENT 115 Introduction to Engineering | ENGR 103 Intro to Engineering |
| MAT 151 Calculus I | MATH 133 Calculus I |
| Semester 2 | |
| CHM 102 (or) Introductory Chemistry II (or) BIO-101: General Biology I | CHM 102 recommended for BME and CE majors) |
| MAT 152 Calculus II | MATH 134 Calculus II |
| PHY 261 Physics II: Electricity, Magnetism & Light | PHYS 134 Electricity and Magnetism |
| ENT 185 Engineering Computer Applications | ENGR 105 Computer Prog for Engineers |
| Semester 3 | |
| ENG 101 English Composition I (<i>recommended</i>) | ENG 132 English Composition I |
| MAT 251 Calculus III | MATH 235 Calculus III |
| MAT 253 Linear Algebra | MATH 306 Linear Alg (Technical Elective) |
| Technical Elective | **see below |
| General Education Elective | *see below |
| Semester 4 | |
| ENG 101 English Composition I (<i>recommended</i>) | ENG 132 English Composition I |
| MAT 251 Calculus III | MATH 235 Calculus III |
| MAT 253 Linear Algebra | MATH 306 Linear Alg (Technical Elective) |
| Technical Elective | **see below |
| General Education Elective | *see below |

****Mechanical**—ENT-212 (Statics) and ENT 213 Strength of Materials

****Industrial**—ENT 212 (Statics) and ENT 203 (Linear Circuit Analysis) (Additional recommended course: BUS 112 -Financial Reporting)

****Electrical/Computer**—ENT-203 (Linear Circuit Analysis), ENT-204 (Linear Circuit Analysis II) ENT 233 Digital Circuits, (it is recommended students take a Digital Logic course to allow flexibility within the EE/CPE major)

****Civil**—ENT 212 Statics and ENT 213 (Strength of Materials)

** **Biomedical**—ENT 203 (Linear Circuit Analysis) and BIO 101 (General Biology I)

*The following Berkshire Community College courses will count towards satisfying WNE's general university requirements. PSY 107 or SOC 105 (one); PHL 101, PHL 102, Any HIS course.

It is strongly recommended that students complete both ENT 203 and ENT 204 prior to enrolling at WNE. Without these two courses it will take longer to complete the Electrical and Computer Engineering program.

If a recommended course is not being offered please reach out to the Director of Transfer Admissions at WNE to discuss options.