## Engineering

<table>
<thead>
<tr>
<th>SPRINGFIELD TECHNICAL COMMUNITY COLLEGE</th>
<th>WESTERN NEW ENGLAND UNIVERSITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engineering Transfer Option</td>
<td>College of Engineering</td>
</tr>
<tr>
<td><strong>GRADUATION REQUIREMENTS</strong></td>
<td><strong>EQUIVALENT COURSES</strong></td>
</tr>
</tbody>
</table>

### Semester 1
- **ENG 101 English Composition 1**
- **CHM 111/111L General Chemistry 1**
- **MAT 131 Calculus 1**
- Elective: Social Science/Behavioral
- **CSC 111 Intro. to the Java Program Lang. (or)**
- **EGR 103/103L Comp. Appl. in Engr. (recommended)**

### Equivalent Courses
- **ENGL 132 English Composition I**
- **CHEM 105 General Chemistry I**
- **MATH 133 Calculus I**
- **ENGR 105 Computer Prog. for Engineers**
- **ENGR 103 Intro. to Engineering**

### Semester 2
- **PHY 231/231L Classical Physics 1**
- **MAT 132 Calculus 2**
- **ENG 102 English Comp.2: Intro. to Lit.**
- **CHM 112/112L General Chemistry 2 (or)**
- **BIO 201/201L General Biology**
- **CSC 100/100L Intro. to Computer Science (or)**
- **CSC 111/111L Intro. to the Java Prog. (recommended)**

### Equivalent Courses
- **PHYS 133 Mechanics**
- **MATH 134 Calculus II**
- **ENGL 133 English Composition II**
- **CHEM 106 General Chemistry II (Gen. Elective)**
- **BIOL 107 General Biology I (Gen. Elective)**
- **ENGR 105 Computer Prog. for Engineers (or)**
- **ENGR 103 Intro. to Engineering**

### Semester 3
- **PHY 233/233L Classical Physics 2**
- **MAT 233 Calculus 3**
- Elective: Engineering & Science Transfer
- Elective: Behavioral/Social Science
- Elective: Math/Science/Engineering

### Equivalent Courses
- **MATH 235 Calculus III**
- **ENGR 105 Computer Prog. for Engineers (or)**
- **ENGR 103 Intro. to Engineering**

### Semester 4
- Elective: Engineering & Science Transfer
- Elective: Engineering & Science Transfer
- Elective: Math, Science, or Engineering

### Equivalent Courses
- **IE 212 Probability & Statistics**
- **MAT 236 Differential Equations**

This is not an articulation agreement. This chart should serve as a reference for Springfield Technical Community College students who eventually plan to transfer to Western New England University.

* The following Springfield Technical Community College courses will count towards satisfying Western New England University’s general University requirements: PHL 101 Philosophy I; PSY 101 General Psychology, or SOC 101 Intro to Sociology, or any economics course (one); and any history course (one).

**Recommended Springfield Technical Community College Engineering courses:**

**Mechanical**—EGR 121 Mechanics 1 (Statics), EGR 221 Circuit Analysis 1 (must be taken with EGR 225), EGR 219 Mechanics of Materials, EGR 122 Mechanics 2, EGR 211 Probability & Statistics; EGR 229 Engineering Thermodynamics 1

**Industrial**—EGR 121 Mechanics 1 (Statics), EGR 221 Circuit Analysis 1 (must be taken with EGR 225), EGR 211 Probability and Statistics for Engineers, ACC 101 Accounting 1 (may not satisfy STCC requirements), MATH 240 Linear Algebra

**Electrical/Computer**—EGR 121 Mechanics 1 (Statics), EGR 221 Circuit Analysis 1 (must be taken with EGR 225), EGR 222 Circuit Analysis 2, (must be taken with EGR 226) CSC 210 Computer Organization and Digital Logic, EGR 211 Probability & Statistics

**Civil**—EGR 121 Mechanics 1 (statics), EGR 122 Mechanics 2, EGR 219 Mechanics of Materials, EGR 211 Probability & Statistics, EGR 229 Engineering Thermodynamics 1

**Biomedical**—CHM 112/112L General Chemistry 2, EGR 221 Circuit Analysis 1 (Must be taken with EGR 225), BIO 201/201L General Biology, EGR 211 Probability & Statistics for Engineers