

# Engineering

SPRINGFIELD TECHNICAL COMMUNITY COLLEGE Engineering Transfer Option	WESTERN NEW ENGLAND UNIVERSITY College of Engineering
GRADUATION REQUIREMENTS	EQUIVALENT COURSES
<b>Semester 1</b>	
ENG 101 English Composition 1	ENGL 132 English Composition I
CHM 111/111L General Chemistry 1	CHEM 105 General Chemistry I
MAT 131 Calculus 1	MATH 133 Calculus I
Behavioral/Social Elective: Any ECN, PSY or SO Course ( <i>recommended</i> )	Social Systems Requirement
CSC 113 Intro to Python Programming (or) EGR 103/103L Comp. Appl. in Engr. ( <i>recommended</i> )	ENGR 105 Computer Prog. for Engineers ENGR 103 Intro. to Engineering
<b>Semester 2</b>	
PHY 231/231L Classical Physics 1	PHYS 133 Mechanics
MAT 132 Calculus 2	MATH 134 Calculus II
ENG 102 English Comp.2: Intro. to Lit.	ENGL 133 English Composition II
CHM 112/112L General Chemistry 2 (or) BIO 201/201L General Biology	CHEM 106 General Chemistry II (Gen. Elective) BIOL 107 General Biology I (Gen. Elective) (CHM 112 is required and recommended for CE and BME majors)
CSC 100/100L Intro. to Computer Science (or) CSC 111/111L Intro. to the Java Prog. ( <i>recommended</i> )	ENGR 105 Computer Prog. for Engineers (or) ENGR 105 Computer Prog. for Engineers
<b>Semester 3</b>	
PHY 232/232L Classical Physics 2	PHYS 134 Electricity and Magnetism
MAT 233 Calculus 3	MATH 235 Calculus III
Elective: Engineering & Science Transfer	** see below
Behavioral/Social Science Elective: Any HIS Course ( <i>recommended</i> )	Citizenship Identity & Communities Requirement
Elective: Math/Science/Engineering	** see below
<b>Semester 4</b>	
Elective: Engineering & Science Transfer	** see below
Elective: Engineering & Science Transfer	** see below
Elective: Math, Science, or Engineering	** see below
MAT 255 Differential Equations ( <i>recommended</i> )	MATH 236 Differential Equations
Humanities/Social Science/Behavioral: Any ART, DMP or MUS Course ( <i>recommended</i> )	Creative Expression Requirement

## \*\* 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