

Engineering Science

CT STATE COMMUNITY COLLEGE Engineering Science	WESTERN NEW ENGLAND UNIVERSITY Engineering
GRADUATION REQUIREMENTS	EQUIVALENT COURSES
General Education Courses	
ENG 1010 - Composition	ENG 132 - English Composition
MATH 2600 - Calculus I	MATH 133- Calculus I
PHIL 1101 - Ethics	PH 208 -Ethics (SS)
CHEM 1210 - General Chemistry I	CHEM 105 - General Chemistry I
Elective: HIS (Historical Knowledge Course)	Citizenship, Identity & Community
ENG 1020 - Composition II (<i>recommended</i>)	ENGL 133 - English Composition II
Program Courses	
Elective BHEL - Behavioral Science	General Elective (For ME, EE, IE and CPE only)
Social Science Elec:POLS 1001 or POLS 1002 (<i>recommended</i>)	Citizenship, Identity & Community Requirement
PHYS 2201 - Calculus-Based Physics I	PHYS 133 - Mechanics
PHYS 2202 - Calculus-Based Physics II	PHYS 134 - Electricity and Magnetism
MATH 2610 - Calculus II	MATH 134 - Calculus II
MATH 2620 - Calculus III: Multivariable	MATH 235 - Calculus III
MATH 2622 - Differential Equations	MATH 236 - Differential Equations
EGR 1110 - Introduction to Engineering	EGR 103 - Intro to Engineering
Programming Course: EGR 2201 MatLab for Engr (<i>recommended</i>)	ENGR 105 - Computer Programming for Engineers
EGR 2211 Engineering Statics	ME 202 (ME, IE, CE only)
EGR 2215 - Thermodynamics	ME 303 (ME, CE only)
Specialization Elective: (6-8 credits)	*see below

The below courses are highly recommended and without these courses a student will require additional time to satisfy the bachelors' requirements.

Biomedical Engineering (Recommended): BIO 1210 -General Biology I & CHEM 1220 -General Chemistry II

Computer Engineering (Recommended): EGR 1105 - Robotics & EGR 2221 - Intro to Electrical Circuits Analysis (It is strongly recommended that students complete a second circuits course prior to enrolling at WNE to stay on track with the CPE major).

Civil Engineering (Recommended): CHEM 1220 - General Chemistry II & EGR 2212 - Engineering Dynamics

Electrical Engineering (Recommended): EGR 1105 - Robotics & EGR 2221 - Intro to Electrical Circuits Analysis (It is strongly recommended students complete a second Circuits course prior to enrolling at WNE to stay on track with the EE major).

Industrial Engineering (Recommended): MATH 1200 - Statistics & EGR 1105 - Robotics

Mechanical Engineering (Recommended): EGR 2212 - Engineering Dynamics & EGR 1105 - Robotics