MECHANICAL & MANUFACTURING ENGINEERING TECHNOLOGY - AAS (2314)

Division: Mathematics, Engineering Technologies and Computer Sciences (METCS) Division

This program is accredited by the Engineering Technology Accreditation Commission of ABET, https://www.abet.org. (https://www.abet.org./)

The Program Educational Objectives (PEOs) and Program Learning Outcomes (PLOs) can be found here (https://catalog.essex.edu/overview-academic-divisions/division-mathematics-engineering-technologies-computer-science/).

Code	Title	Credits
General Education Requirements (22 Credits)		
Written & Oral Communication (6)		
ENG 101	College Composition I	3
ENG 105	Technical Writing	3
Quantitative/Scientific Knowledge, Skills & Reasoning (10)		
MTH 114	Unified Calculus I	3
MTH 213	Unified Calculus II	3
PHY 101	College Physics I	4
Society & Human Behavior (3)		
ECO 101	Principles of Economics I	3
Historical Perspective (3)		
Select any History (HST) Course		3
Major Course Requirements (31 Credits)		
ELC 115	Electric Circuits I	3
ENR 100	Fund. of Engineering Design	2
ENR 103	Engr. Graphics & Intro. to CAD	2
ENR 110	Statics for Technology	3
ENR 112	Dynamics for Technology	3
ENR 205	Advanced Autocad	3
ENR 220	Mechanics of Materials	3
MET 203	Engineering Materials and Proc	3
MET 210 (recommended), MET 211 or MET 215		3
MET 250	Mechanical Engr. Tech. Project	2
PHY 102	College Physics II	4
Additional Course Requirements (8 Credits)		
CSC 106	Roadmap to Computing Engineers	3
ENR 105	Applied Computer Aided Design	2
CHM 106	Chemistry for Engineering Tech	3
Total Credits		**61**

- Approved technical electives should be selected after consultation with an academic advisor.

Notes:

1. For an explanation of why General Education courses are included in this Program, please refer to the Section on General Education for an explanation of its Purpose and Requirements.
2. This plan assumes the student is eligible to enroll in College Level Courses (designated as 100 +, e.g., ENG 101 College Composition I, HST 101 World Civilization I, MTH 100 Intro. to College Mathematics). Placement results will determine College Level Readiness in English and Mathematics.