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 Educa	tion Requirements (22 Credits)	
Written & Oral (Communication (6)	
ENG 101	College Composition I	3
ENG 105	Technical Writing	3
Quantitative/So	cientific Knowledge, Skills & Reasoning (10)	
MTH 114	Unified Calculus I	3
MTH 213	Unified Calculus II	3
PHY 101	College Physics I	4
Society & Huma	an Behavior (3)	
ECO 101	Principles of Economics I	3
Historical Pers	pective (3)	
Select any His	tory (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 Cou	ırse 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:

- 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.
- 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.