

Year 1/Level 1 (23 hrs) Sept/Jan/May	Year 1/Level 2 (22 hrs) Sept/Jan/May	Year 2/Level 3 (22 hrs) Sept/Jan/May	Year 2/Level 4 (24 hrs) Sept/Jan/May	Year 3/Level 5 (24 hrs) Sept/Jan/May	Year 3/Level 6 (23 hrs) Sept/Jan/May
ETY155 (3/2) Electricity	DGS266 (2/2) Digital Electronics and Introduction to PLC Prerequisite ETY155, PRG155	CSF453 (2/2) Control Systems Fundamentals Prerequisite DGS266	MMF455 (0/5) Material and Machining Fundamentals Prerequisite THY200, CAD255	CNC555 (2/2) CNC Technology Prerequisite MMF455	TPJ653 (2/2) Capstone Project Prerequisite AUT555, TEC400
COM101 (3/0) or COM111 (6/0) Communicating Across Contexts	ELM253 (2/2) AC Circuits for Electrical Systems Prerequisite ETY155	MEC355 (2/2) Mechatronics: Pneumatics and Hydraulic Prerequisite MTH255	ELM453 (2/2) Motors and Transformers Prerequisite ELM253	ROB555 (2/2) Robotics Basics Prerequisite CSF453	ROB655 (2/2) Robotics Applications Prerequisite ROB555
LIN155 (1/2) Electronic Lab Instrumentation and Techniques	THY200 (3/0) Machining Theory - Automation Prerequisite LIN155	ECP455 (2/1) Engineering Codes and Practices Prerequisite DGS266	MEC455 (2/2) Mechatronics Concepts Prerequisite MEC355	IOT555 (2/2) Industrial Internet of Things Prerequisite MEC455, TIA555	SIM655 (2/2) Simulation for Design and Manufacturing Prerequisite IOT555
PRG155 (2/2) Programming Fundamentals Using 'C'	CAD255 (0/4) Mechanical Designs and Drawing Prerequisite MTH147	MME355 (2/2) Mechanics and Machine Elements Prerequisite ELM253	TIA555 (2/2) Totally Integrated Automation Prerequisite CSF453	MOM555 (2/2) Manufacturing Operations Management Prerequisite ELM453	CMA655 (2/2) Cloud and Manufacturing Data Analytics Prerequisite IOT555
MTH147 (6/0) Mathematics with Foundations	MTH255 (4/0) Mathematics Prerequisite MTH147	CAD355 (0/4) Electrical Designs and Drawings Prerequisite CAD255	TEC400 (3/0) Technical Communications Prerequisite COM101 or COM111	CAD555 (2/2) Electrical and Mechanical Design and Simulation Prerequisite CAD355	Professional Option*
ICO155 (2/0) Introduction to Computers	IPS255 (3/0) Interpersonal Skills in the Engineering Workplace Prerequisite LIN155	General Education Elective (3/0)	PCS455 (2/2) Process Control Prerequisite CSF453	AUT555 (2/2) Advanced Automation Prerequisite TIA555	General Education Elective (3/0)