

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