

**Associate in Applied Science General Technology Degree in Mechatronics Technology, Industrial  
Technology Secondary Specialty for the OCtech Early College Career Academy 3/21/22**

<b>General Education Courses</b>	<b>Lec/Lab/Credit Hours/Total Semester Contact Hours (TSCH)</b>
ENG 160 Technical Communications (or ENG 101 and SPC 205)	3-0-3 (TSCH= 45)
MAT 101 Beginning Algebra (or MAT 110 or MAT 175)	3-0-3 (TSCH= 45)
MAT 102 Intermediate Algebra (or MAT 111 or MAT 176)	3-0-3 (TSCH= 45)
HSS 101 Introduction to Humanities (or history or fine arts equivalent equivalent)	3-0-3 (TSCH= 45)
PSY 103 Human Relation (or PSY 201 or SOC 101)	3-0-3 (TSCH= 45)
	<b>15.0 Hours</b>
<b>Primary Technical Specialty</b>	
EET 113 Electrical Circuits* I (or EEM 117* and EEM 118*)	3-3-4 (TSCH= 90)
EET 141 Electronics Circuits	3-3-4 (TSCH= 90)
EET 140 Digital Electronics (PLTW course)* and EET 143 Digital Electronics Lab (or EET 145)	3-3-4 (TSCH= 75)
AMT 105 Robotics and Automated Controls I*	2-3-3 (TSCH= 75)
EET 235 Programmable Controllers	2-3-3 (TSCH= 75)
EGR 112 Engineering Programming	2-3-3 (TSCH= 75)
EEM 145 Control Circuits	2-3-3 (TSCH= 75)
EEM 215 DC/AC Machines	2-3-3 (TSCH= 75)
EGR 130 Engineering Technology Applications and Programming* (PLTW Course)	2-3-3 (TSCH= 75)
CPT 170 Microcomputer Applications	3-0-3 (TSCH= 45)
	<b>33.0 Hours</b>
<b>Secondary Technical Specialty</b>	
IMT 210 Basic Industrial Skills I	2-3-3 (TSCH= 75)
IMT 211 Basic Industrial Skills II	2-3-3 (TSCH= 75)
IMT 131 Hydraulics and Pneumatics*	3-3-4 (TSCH= 90)
IMT 170 Statistical Process Control	2-3-3 (TSCH= 75)
	<b>13.0 Hours</b>
<b>Program Total Hours</b>	<b>61.0 Hours</b>

\* High School Completer Course for Perkins. Students can have a high school Mechatronics Major and/or a blended major with Mechatronics and Engineering (PLTW).

NOTE: In addition to elective high school graduation credit for dual credit courses, EGR 130 meets the South Carolina high school graduation computer requirement. Green highlighted courses could be used as local board approved high school graduation credit, if approved by for district. Students could take both English 101 and 102 to meet the requirement of English 4.