

**Associate in Applied Science General Technology Degree in Electronic Instrumentation with an
Electronics Secondary Specialty for the OCtech Early College Career Academy 2/28/22**

General Education Courses	Lec/Lab/Credit Hours/Total Semester Contact Hours (TSCH)
ENG 160 Technical Communications (OR ENG 101 and SPC 205)	3-0-3 (TSCH=45)
MAT 175 Algebra and Trigonometry I (or MAT 110)	3-0-3 (TSCH=45)
MAT 176 Algebra and Trigonometry II (or MAT 111)	3-0-3 (TSCH=45)
HSS 101 Introduction to Humanities (or history or fine arts equivalent)	3-0-3 (TSCH=45)
PSY 103 Human Relations (or PSY 201 or SOC 101)	3-0-3 (TSCH=45)
	15.0 Hours
Primary Technical Specialty	
EGR 130 Engineering Technology Applications and Programming*	2-3-3 (TSCH=75)
EGT 152 Fundamentals of CAD*	2-3-3 (TSCH=75)
EIT 110 Principles of Instrumentation	2-3-3 (TSCH=75)
EIT 211 Introduction to Electronic Instrumentation I	3-6-5 (TSCH=135)
EIT 212 Introduction to Electronic Instrumentation II	3-6-5 (TSCH=135)
EIT 220 Control Principles	2-3-3 (TSCH=75)
PHY 201 Physics I	3-3-4 (TSCH=90)
CIM 131 Computer Integrated Manufacturing** or EGR 112 Engineering Programming	2-3-3 (TSCH=75)
	29.0 Hours
Secondary Technical Specialty	
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* and EET 143 Digital Electronics Lab (or EET 145)	3-3-4 (TSCH=90)
EET 227 Electrical Machinery	2-3-3 (TSCH=75)
EET 235 Programmable Controllers	2-3-3 (TSCH=75)
	18.0 Hours
Program Total Hours	62.0 Hours

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

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.