

Cluster: Manufacturing

Major: **Industrial Electronics Technology**

High School

9	10	11	12
English 1	English 2	English 3	English 4 (TAP option for ENG 155)
Algebra 1	Geometry	Algebra 2	Pre-Calculus or Probability & Statistics
Physical Science	Biology	Chemistry	Physics
Global Studies	Social Studies Elective	US History	Government and Economics
Computer Science	*Cluster Elective: Digital Electronics AND →	*Principles of Engineering and Computer Integrated Manufacturing AND →	*Engineering Design & Development (TAP option for EEM 111, 112,115,131,171,217,230)
Physical Education or Jr. ROTC	**General Elective	**General Elective	Note: TAP credit and dual enrollment options may vary according to high school and/or career center course offerings.
*Cluster Elective: Introduction to Engineering Design (Academy of Engineering)		***TCTC Dual Enrollment Courses (college IET or social science electives recommended)	***TCTC Dual Enrollment Courses (college IET electives recommended)

Note: The core academic courses listed represent the more commonly chosen courses and sequences. *Cluster electives are selected from the career major which consists of at least 4 required units of study in that area. Any number of cluster electives is possible depending on the offerings of the particular high school/career center. Some cluster elective courses may be taken for Technical Advanced Placement (TAP) credit or as dual enrollment (college) credit. **General electives may be complementary cluster electives or other courses, such as foreign language, fine arts, etc. and are based on an individual student's interest, career goals and college requirements. ***Qualified students may consider other dual enrollment courses to satisfy general education requirements in their associate degree major.

Major: Industrial Electronics Technology
Associate Degree in Applied Science
Tri-County Technical College

Fall 1	Spring 1	Summer	Fall 2	Spring 2
EEM 107 Industrial Computer Techniques	ENG 155 Communications I (TAP option for ENG 4)	EEM 151 Motor Controls I (TAP option)	ENG 156 Communications II	EEM 250 Programmable Logic Controllers
EEM 115 DC Circuits (TAP option)	EEM 112 AC Analysis (TAP option)	EEM 152 Motor Controls II	MAT 155 Contemporary Mathematics	EEM 274 Technical Systems Troubleshooting
EEM 161 Industrial Instruments	EEM 116 AC Circuits (TAP option)	EEM 131 Solid State Devices (TAP option)	EEM 171 Electrical Installation/Electrical Code (TAP option)	HSS 105 Technology and Culture
EEM 111 DC Analysis (TAP option)	EEM 217 AC/DC Machines with Electrical Codes (TAP option)		EEM 200 Semiconductor Devices	PHS 112 Conceptual Physics II
	EEM 230 Digital Electronics (TAP option)		**General Elective	**Social Science Elective

Equipment, Electrical Power and Control I, Electrical Power and Controls II, Basic Electronics and Utility Service. Contact Mr. Doug Allen, 646-1408, for more information on this option. Depending upon the amount of TAP credit received, scheduling will be individualized. Also, courses from other technical majors may be integrated into the schedule, enabling you to possibly graduate with a double major. ** Recommended electives: See College catalog for list of general electives and Social Science electives.