

Cluster: Manufacturing

Major: **General Technology:** Mechatronics or Industrial Maintenance Emphasis

High School			
9	10	11	12
English 1	English 2	English 3	English 4
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: Introduction to Electrical Technology	*Electrical Technology 1 AND →	*Electrical Technology 2 AND ↓
Physical Education or Jr. ROTC	**General Elective	**General Elective	* Electrical Technology 3 (TAP option for IMT 140, and IMT 131)
		***TCTC Dual Enrollment Courses (college Social Science or Humanities electives recommended)	Note: TAP credit and dual enrollment options may vary according to high school and/or career center course offerings.

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: General Technology (Mechatronics or Industrial Maintenance Technology) Associate Degree in Applied Science - Tri-County Technical College

Fall 1	Spring 1	Summer	Fall 2	Spring 2
EGT 123 Industrial Print Reading	ENG 104 Communications Foundations	IMT 224 Electronic Theory	AMT 102 Computer Controlled Machine	EEM 274 Technical/Systems Troubleshooting
IMT 161 Mechanical Power Applications	EGR 104 Engineering Tech Foundations	IMT 142 Electric Motors	EEM 250 Programmable Logic Control	** General Elective
IMT 140 Industrial Electricity (TAP option)	IMT 111 Industrial Tools	IMT 131 Hydraulics and Pneumatics (TAP option)	EEM 152 Motor Controls II	** General Elective
IMT 152 Fundamentals of Refrigeration Systems	IMT 141 Electrical Controls Devices	**Humanities Elective (dual enrollment option)	MAT 155 Contemporary Mathematics	** Social Science Elective (dual enrollment option)
	MAT 104 Math Foundations			

***Degree/Major:** Associate Degree in Applied Science, Major: General Technology (Mechatronics or Industrial Maintenance Technology). In addition to the associate degree, students who have earned TAP credit will have the opportunity to earn certificates in Mechanical Maintenance and a diploma in Industrial Maintenance. Contact Mr. Franklin Smith, Program Coordinator, 646-1413, 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, Humanities, and Social Science electives.