

Cluster: Manufacturing

Major: **Welding Technology**

### High School

9	10	11	12
English 1	English 2	English 3	English 4 (TAP option 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 (TAP option for EGR 110)	*Introduction to Welding or other Cluster Elective (TAP option)	* Welding Technology 1 (TAP option)  <b>And →</b>	* Welding Technology 2 and *Welding Technology 3 (TAP option)
Physical Education or Jr. ROTC	**General Elective	**General Elective	***TCTC dual enrollment courses and additional TAP credit may be offered at district career centers. Consult career center.
		***TCTC Dual Enrollment Courses (recommend Social Science elective)	***TCTC Dual Enrollment Courses (recommend Humanities elective)

**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: Welding Technology Associate Degree\* Tri-County Technical College

Fall 1	Spring 1	Summer	Fall 2	Spring 2	Summer
WLD 106 Gas and Arc Welding (TAP option)	EGR 110 Introduction to Computer Environment (TAP option for Computer Science)	EGT 114 Welding Print Basics	ENG 155 Communications I (TAP option for ENG 4)	ENG 156 Communications II	WLD 235 Robotic Welding I
WLD 110 Welding Safety and Health (TAP option)	EGT 103 Print Reading	WLD 132 Inert Gas Welding Ferrous	MAT 155 Contemporary Math	WLD 206 Orbital Welding I	** Humanities Elective
WLD 113 Arc Welding II (TAP option)	WLD 108 Gas Metal Arc Welding I (TAP option)	WLD 201 Welding Metallurgy	WLD 154 Pipe Fitting and Welding	WLD 208 Advanced Pipe Welding	***Technic al Elective
WLD 141 Weld Quality	WLD 140 Weld Testing	**General Electives (dual enrollment option)	***Technical Elective		
	**Social Science or General Electives (dual enrollment option)				

**\*Degree/Major:** Associate in Welding Technology Degree. Note: In addition to the associate degree, students who have earned TAP credit will have the opportunity to earn the MIG and TIG certificate, Gas and Arc certificate, Manufacturing and Robotic Operations certificate. \*\* Recommended general electives: Students may select ECO Basic Economics elective and PSY 120 for Social Science elective or see College catalog for alternative general, social science or Humanities selections. \*\*\*Technical Electives may be selected from other IET programs. Students should consult with their academic advisor regularly to ensure all program requirements are being fulfilled.