

**Area of Study: Science and Engineering**  
**Pathway: Engineering Technology/Welding**  
**Type: Certificate**  
**Curriculum Code: ENT.WEL.CERT (C448Y)**

**(Total Program Credits: 16)**

The Engineering Technology/Welding Certificate program provides students with welding skills in a shop setting. Students are taught welding processes, such as ARC (Stick), Metal Inert Gas (MIG) and Tungsten Gas (TIG) welding, in various welding positions. In addition, students learn blueprints, other fabrication processes needed for employability and sheet metal layout/fabrication. Graduates find entry-level employment as entry level welders, solderers, and braziers, as well apprentice level industrial maintenance mechanics.

**PROGRAM LEARNING OUTCOMES:**

At the successful completion of the Engineering Technology/Welding Certificate, the graduate will be able to:

- demonstrate safety practices with welding tools and equipment;
- measure in inches and metric;
- identify elements of a blueprint;
- produce arc welds in the flat and horizontal positions using Oxyacetylene (MIG) and Tungsten Arc (TIG) welding processes;
- be able to use an Oxyacetylene torch; and
- demonstrate use of basic math skills to facilitate technical competencies.

**Placement Measures** MAT, RHT, and COL sequence placement will be determined by an Academic Advisor. Contact your Academic Advisor or Transfer Specialist (if transferring), before registering for courses. *Developmental education courses do not transfer. They assist students in the path towards college credit.*

**Program Map for Full-Time Students**

Semester 1	Category	Stackable Certificate	Stackable Degree	Next Steps
ENT 106 Welding With Metal Inert Gas (4)	<i>Required</i>			Meet with your <a href="#">Academic Advisor</a> to finalize your academic plan for graduation and register for stackable certificate/degree (option).  Submit graduation petition by deadline (check for the specific date in catalog or syllabus.)
ENT 107# Welding With Tungsten Inert Gas (4)	<i>Required</i>			
ENT 110 ◊ Engineering Design Graphics/CAD (4)	<i>Required</i>			
ENT 116 ◊ Fabrication Processes (4)	<i>Required</i>			

16 Credit hours

See ENT course descriptions (p. **Error! Bookmark not defined.**).

**Coordinator:** Antigone Sharris, Ext. 3622; email: antigonesharris@triton.edu; Cell Phone: (773) 580-8807