



## Manufacturing

**Dual Credits:** two high school credits and two college courses

### **Welding Basics – TLH4T (College Course: WLD001)**

Students will learn all aspects of welding and shop safety, including general, personal, welding, and industrial shop safety. They will study and operate Shielded Metal Arc Welding (SMAW), Gas Metal Arc Welding (GMAW), and Oxy Fuel Cutting (OFC) processes. This course also includes the study of power sources, electrodes and consumables, basic welds, and welding procedures. Students will learn the different types of lines, views, and dimensions used on engineered drawings. They will identify the bill of materials, structural shapes, welding symbols, and the use of basic joints in print reading.

### **Machining Basics – TZP4T (College Course: MST010)**

In this entry-level course, students will gain an understanding and appreciation of the requirements and skills needed to become a machinist. The hours are equally divided between theory and practical exercises. Students will first learn basic safety and machine tool operation skills in class and then apply that knowledge through hands-on practice.

#### **Note:**

- Tuition, materials and transportation fees will be covered through the Dual Credit program.
- All students are expected to attend an orientation session prior to taking part in any Dual Credit program.
- Students will be contacted by the Dual Credit Program Assistant, at least one week prior to the start of the program, to be provided with a date, time and location for each orientation session.
- Delivery: Scheduled between March – June.
- Location: Commerce Court Campus.