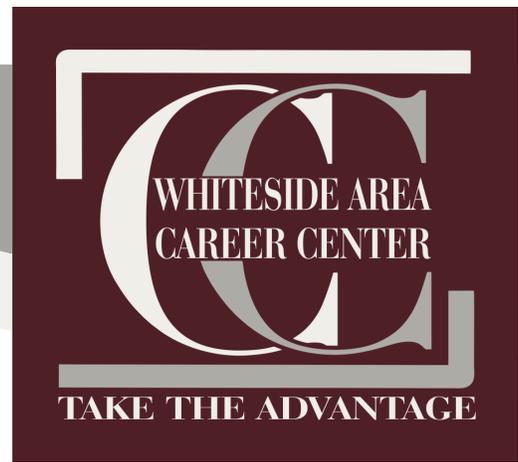


# Welding, Machining, Manufacturing Technology



One or two-year program offered to junior and senior students. Welding, machining, CAD principles along with fabrication skills will be taught through hands-on experiences.

Topics include:

- Welding processes - (Stick, Oxyacetylene, Mig, Tig, Plasma cutting, and OAW cutting),
- Machine operations – (Lathes, Mills, Surface and Bench Grinders, Shear, Band Saw, Pipe Cutters, etc.)
- AutoCAD - Computer aided drafting program (2D Wire Frame)
- Blueprint reading and Weld Symbols

The second year will provide the students with the opportunity to obtain advanced training on components of welding and metal fabrication.

- Welding processes – (Structural welds, Pipe welds, Flux cored welding)
- Machine operations – (CNC and manual Machining)
- Programing –(Setup and operation of CNC Plasma Table)
- Inventor - Computer aided drafting program (3D Modeling)
- Product design and development
- Internship at manufacturing site

**\* 10 Dual Credits with SVCC: IND 106-Intro to Welding, IND 108-Intro to CAD, IND125-Maching and Manufacturing Processes, IND203-Advanced Machining and Manufacturing Processes (2 credits each for IND 106 and IND 108; 3 credits for IND 125 and IND 203)**

