

WELDING (WELD)

WELD 100 Orientation & Safety (1 credit)

This course is designed to give the student a broad overview of the various welding and machining processes as well as their applications and to develop safe working habits and become aware of safe working conditions in the Welding and Machine Trades (OSHA).

WELD 103 GMA Welding (2 credits)

This course provides the theory to develop the manual skills necessary to produce high quality welds on mild steel plate using the gas metal process in all positions.

WELD 104 SMA Welding (2 credits)

This course provides the technical lab training and classroom training to develop the manual skills necessary to produce high quality welds on mild steel plate in all positions using the shielded metal arc welding (SMAW) process according to the American Welding Society (AMW) standards.

WELD 105 Stainless Steel/Pipe TIG Welding (3 credits)

This course introduces the student to the principles and practices of gas tungsten arc welding (GTAW), that including basic and advanced welding-joint design, expansion, contraction, of Stainless Steel weldments.

WELD 107 Introduction to Pipe Welding (2 credits)

This course provides the theory to develop the manual skills necessary to produce high quality welds on mild steel plate using the gas metal process in all positions.

WELD 153 Welding Practicum (4 credits)

Beginning instructions on skills in Oxyacetylene Welding (OAW), Oxyacetylene cutting (OFC-A), Shielded Metal Arc Welding (SMAW) and Gas Metal Arc Welding (GMAW) using various thicknesses of steel, with a strong emphasis on safety handling welding and cutting equipment. Also covered are general safety, welding supplies, and equipment maintenance. Out of position OAW, SMAW, and GMAW are introduced. Lab Required.