

# COURSES

## WELDING (WLD)

<b>WLD 110</b>	<b>Cutting Processes</b>	<b>2.0 UNITS</b>
This course introduces oxy-fuel and plasma-arc cutting systems. Topics include safety, proper equipment setup, and operation of oxy-fuel and plasma-arc cutting equipment with emphasis on straight line, curve and bevel cutting. Upon completion, students should be able to oxy-fuel and plasma-arc cut metals of varying thickness.		
<b>WLD 112</b>	<b>Basic Welding Processes</b>	<b>2.0 UNITS</b>
<b>WLD 115</b>	<b>SMAW (Stick) Plate</b>	<b>5.0 UNITS</b>
This course introduces the shielded metal arc (stick) welding process. Emphasis is placed on padding, fillet, and groove welds in various positions with SMAW electrodes. Upon completion, students should be able to perform SMAW fillet and groove welds on carbon plate with prescribed electrodes.		
<b>WLD 116</b>	<b>SMAW (stick) Plate/Pipe</b>	<b>4.0 UNITS</b>
This course is designed to enhance skills with the shielded metal arc (stick) welding process. Emphasis is placed on advancing manipulative skills with SMAW electrodes on varying joint geometry. Upon completion, students should be able to perform groove welds on carbon steel with prescribed electrodes in the flat, horizontal, vertical, and overhead positions.		
<b>WLD 121</b>	<b>GMAW (MIG) FCAW/Plate</b>	<b>4.0 UNITS</b>
This course introduces metal arc welding and flux core arc welding processes. Topics include equipment setup and fillet and groove welds with emphasis on application of GMAW and FCAW electrodes on carbon steel plate. Upon completion, students should be able to perform fillet welds on carbon steel with prescribed electrodes in the flat, horizontal, and overhead positions.		
<b>WLD 122</b>	<b>GMAW (MIG) Plate/Pipe</b>	<b>3.0 UNITS</b>
This course is designed to enhance skills with the gas metal arc (MIG) welding process. Emphasis is placed on advancing skills with the GMAW process making groove welds on carbon steel plate and pipe in various positions. Upon completion, students should be able to perform groove welds with prescribed electrodes on various joint geometry.		
<b>WLD 131</b>	<b>GTAW (TIG) Plate</b>	<b>4.0 UNITS</b>
This course introduces the gas tungsten arc (TIG) welding process. Topics include correct selection of tungsten, polarity, gas, and proper filler rod with emphasis placed on safety, equipment setup, and welding techniques. Upon completion, students should be able to perform GTAW fillet and groove welds with various electrodes and filler materials.		
<b>WLD 132</b>	<b>GTAW (TIG) Plate/Pipe</b>	<b>3.0 UNITS</b>
This course is designed to enhance skills with the gas tungsten arc (TIG) welding process. Topics include setup, joint preparation, and electrode selection with emphasis on manipulative skills in all welding positions on plate and pipe. Upon completion, students should be able to perform GTAW welds with prescribed electrodes and filler materials on various joint geometry.		
<b>WLD 141</b>	<b>Symbols and Specifications</b>	<b>3.0 UNITS</b>
This course introduces the basic symbols and specifications used in welding. Emphasis is placed on interpretation of lines, notes, welding symbols, and specifications. Upon completion, students should be able to read and interpret symbols and specifications commonly used in welding.		
<b>WLD 151</b>	<b>Fabrication I</b>	<b>4.0 UNITS</b>
This course introduces the basic principles of fabrication. Emphasis is placed on safety, measurement, layout techniques, cutting, joining techniques, and the use of fabrication tools and equipment. Upon completion, students should be able to perform layout activities and operate various fabrication and material handling equipment.		
<b>WLD 265</b>	<b>Automated Welding/Cutting</b>	<b>4.0 UNITS</b>
This course introduces automated welding equipment and processes. Topics include setup, programming, and operation of automated welding and cutting equipment. Upon completion, students should be able to set up, program, and operate automated welding and cutting equipment.		