

## OCCUPATIONAL CERTIFICATE (CERT) AWC ADVISEMENT CHECK SHEET

### WELDING

<b>Student Name</b>	<b>ID #</b>	<b>Advisor</b>	<b>Major Code: CERT.WELDG</b> <b>Credits: 46</b>
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In industrial manufacturing, the practice of joining and severing metals is a science and an art which requires combined knowledge and skills in a variety of industrial/technical fields. The welding faculty offers a selection of technology courses and programs that prepare the individual for entry level in a welding career. The curriculum offers a variety of ways in which students can realize their training and educational goals. Student needs are matched with the instruction within welding centers on the "traditional" welding processes and practices of oxyacetylene welding and cutting, shielded metal arc, (stick), gas tungsten arc (Tig-Heliarc), gas metal arc (MIG), as well as the "non-traditional" processes of plasma arc, resistance welding, fluxed core arc, submerged arc, and electron beam. Participation in, and completion of, the different sequences of instruction within the welding department prepares the individual for a rewarding career in metal fabrication, maintenance, education, supervision, sales and service, as well as many other opportunities associated with welding technology.

Required Major Courses (34 credits)		Cr	Gr	Sem	App*	Notes
MAT 106	Mathematics for Welders	3				
WLD 105	Techniques in Oxyacetylene Welding and Cutting	3				
WLD 106	Techniques in Shielded Metal Arc Welding	3				
WLD 108	Techniques in Gas Tungsten Arc Welding	3				
WLD 109	Techniques in Gas Metal Arc Welding	3				
WLD 123	Manufacturing/Welding Technology Survey	3				
WLD 124	Arc Welding Processes and Power Sources	3				
WLD 125	Welding Design Layout and Fabrication	3				
WLD 127	Welder Certification and Code Application	6				
WLD 201	Introduction to Robotic Welding	4				
Other Departmental Requirements (12 Credits)						
DFT 100	AutoCAD 1 - Drafting	3				
MFG 185	Quality Control and Inspection	3				
MFG 195	Materials Science and Metallurgy	3				
TEC 165	Employee and Occupational Safety	3				
Recommended Electives						
ECT 105	Basic Electricity	3				
ENT 240	Business Plan Development	3				
TEC 298	Independent Study					