

ASSOCIATE IN APPLIED SCIENCE (A.A.S) AWC ADVISEMENT CHECK SHEET

WELDING

Student Name	ID #	Advisor	Major Code: AAS.WELDT
			Credits: 67

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 appropriate sequence of course work within one of the following: specialized single course, the certificate program, or the A.A.S. program. The content and 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 (30 Credits)		Cr	Gr	Sem	App*	Notes
MFG 185	Quality Control and Inspection	3				
MFG 195	Materials Science and Metallurgy	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 224	Technical Specialized Welding Process	3				

Other Departmental Requirements (16 Credits)		Cr	Gr	Sem	App*	Notes
DFT 100	AutoCAD 1 - Drafting	3				
ECT 105	Basic Electricity	3				
ENG 110	Technical Writing	3				
TEC 165	Employee and Occupational Safety	3				
WLD 201	Introduction to Robotic Welding	4				

General Education Requirements (21 Credits)		Cr	Gr	Sem	App*	Notes
See the AAS GE course list in the current catalog for selection of courses.						

English Composition (6 credits)						
ENG 100	Introduction to Composition OR	3				
ENG 101	Freshman Composition SUN## OR	3				
ENG 102	Freshman Composition SUN##	3				
Mathematics (3 credits)						
MAT 105	Mathematics for the Applied Sciences OR approved higher level math	3				
Arts/Humanities (3 credits)						
Social and Behavioral Sciences (3 credits)						
Physical and Biological Sciences (4 credits)						
Additional Courses (2 credits)						

Recommended Courses for Students Pursuing Welding Career		Cr	Gr	Sem	App*	Notes
ENT 240	Business Plan Development					
MFG 192	Precision Machining					
WLD 127	Welder Certification and Code Application					

***Dual Application of Courses** is the sharing of coursework between the AGEC and major or program requirements which allows the student to meet both requirements with a single course. Students must still meet the required number of credits to satisfy the program or degree. This dual application of courses gives students the opportunity to include additional course work under general electives.

List any courses used to satisfy program or degree credits due to dual application:		Cr	Gr	Sem	App*	Notes