Welding and Welding Certificate (WLD & WLDC)

Welding (WLD)

The Welding degree prepares students for high-demand employment opportunities in industries such as manufacturing, construction, automotive, aerospace, and energy piping.

Students gain hands-on skill training in oxyacetylene welding (OAW), oxyfuel cutting (OFC), shielded metal arc welding (SMAW), gas metal arc welding (GMAW), flux core arc welding (FCAW), and gas tungsten arc welding (GTAW). Students also develop knowledge and skills in other welding areas including metal fabrication, visual inspection, and blueprint reading.

The degree program includes cooperative education work opportunities as well.

The Welding associate's degree curriculum is aligned with the American Welding Society's SENSE program.

Welding Certificate (WLDC)

The Welding Certificate prepares students for immediate employment in organizations where welders are in demand, including manufacturing, construction, automotive, and energy industries. The program includes hands-on practice in a variety of welding processes as well as metal fabrication, testing, and quality control.

Graduates are prepared to take certification tests offered by the American Welding Society.

For more information, please contact the Center for Innovative Technologies at (513) 569-1743.

To apply for this program at Cincinnati State, visit our Admissions Page (http://www.cincinnatistate.edu/academics/admission)

Welding (WLD)

Semester 1		Lec	Lab	Credits
WLD 100	Fundamentals of Welding (**B**)	2	3	3
WLD 105	Print Reading and Weld Design (**B**)	2	2	3
FYE 1XX First Year Experience Elective (**B**)		1	0	1
PSY 1XX Psychology Elective (**G**)		3	0	3
XXX XXX Humanities Elective or Natural Science Elective (**G**)		3	0	3
Semester 2				
WLD 115	Gas Metal Arc Welding and Flux Cored Arc Welding (**B**)	2	6	4
ENG 101	English Composition 1 (**G**)	3	0	3
MAT 120	Technical Mathematics (**G**)	2	2	3
WLD 111	Shielded Metal Arc Welding 1 (**B**)	2	6	4
Semester 3				
WLD 112	Shielded Metal Arc Welding 2 (**T**)	2	6	4
WLD 260	Weldability of Metals (**T**)	2	2	3
MET 131	MET Computer Aided Drafting 1 (**T**)	2	3	3
ENG 10X English Composition Elective (**G**)		3	0	3
Semester 4				
MET 111	Manufacturing Processes 1 (**T**)	2	3	3
WLD 210	Gas Tungsten Arc Welding (**T**)	2	6	4
EET 101	Electronic Fundamentals 1 (**T**)	2	3	3
WLD 231	Pipe Welding 1 (**T**)	2	6	4
Semester 5				
WLD 232	Pipe Welding 2 (**T**)	2	6	4
WLD 291	Full-Time Cooperative Education 1: Welding (**T**)	1	40	2
Semester 6				
WLD 292	Full-Time Cooperative Education 2: Welding (**T**)	1	40	2
WLD 250	Welding Inspection and Codes (**T**)	2	3	3
Total Credits:		43	137	65

Electives

First Year Experience Elective		
FYE 100	College Survival Skills	1
FYE 105	College Success Strategies	2
FYE 110	Community College Experience	3
Psychology Elective		
PSY 100	Applied Psychology: Human Relations	3
PSY 102	Applied Psychology: Stress Management	3
PSY 110	Introduction to Psychology	3
Humanities Elective (take one course from either Humanities or Natural Sciences)		3
Any ART, FRN, LIT, MUS, PHI, POL, REL, SPN, THE		
Natural Sciences Elective (take one course from either Humanities or Natural Sciences)		
Any CHE, EVS, PHY, PSC		
English Composition Elective		
ENG 102	English Composition 2: Contemporary Issues	3
ENG 104	English Composition 2: Technical Communication	3
ENG 105	English Composition 2: Business Communication	3

The letters G, B, and T (displayed after course titles or elective descriptions) identify types of courses required by the Ohio

Department of Higher Education as part of an associate's degree curriculum.

G = General Education course in this curriculum

B = Basic Skills course in this curriculum

T = Technical course in this curriculum

Welding Certificate (WLDC)

Semester 1		**Lec**	**Lab**	**Credits**
WLD 100	Fundamentals of Welding	2	3	3
WLD 105	Print Reading and Weld Design	2	2	3
MAT 120	Technical Mathematics	3	0	3
Semester 2				
MET 111	Manufacturing Processes 1	2	3	3
WLD 111	Shielded Metal Arc Welding 1	2	6	4
MET 131	MET Computer Aided Drafting 1	2	3	3
Semester 3				
EET 101	Electronic Fundamentals 1	2	3	3
WLD 115	Gas Metal Arc Welding and Flux Cored Arc Welding	2	6	4
WLD 210	Gas Tungsten Arc Welding	2	6	4
WLD XXX Technical Elective		2	6	4
Total Credits:		21	38	34

Electives

Technical Elective		
WLD 112	Shielded Metal Arc Welding 2	4
WLD 260	Weldability of Metals	3
WLD 220	Metal Fabrication	3

Faculty

Program Chair/Advisor

Professor Michael DeVore, PhD, PE
michael.devore@cincinnatistate.edu

Co-op Coordinator

Professor Sue Dolan, M.Ed.
sue.dolan@cincinnatistate.edu