

Academic Pathways Map
Industrial Welding and Metal Fabrication
A.A.S.
Industry and Trades

Start Here

SEMESTER 1		CREDITS	MILESTONE	✓
M111	TECHNICAL MATHEMATICS	3	*	
WLDG107	INDUSTRIAL SAFETY FOR WELDING	2	*	
WLDG112	CUTTING PROCESSES	3		
WLDG135	GMAW THEORY AND PRACTICAL APPLICATION	5		
WLDG181	SMAW THEORY AND PRACTICAL APPLICATION	5		

TOTAL CREDITS 18

SEMESTER 2		CREDITS	MILESTONE	✓
WLDG137	BLUEPRINT READING, LAYOUT, AND BEGINNING FABRICATION	7		
WLDG141	GTAW THEORY AND PRACTICAL APPLICATION	4		
WLDG151	SHOP PRACTICES	4		
COMX106	COMMUNICATING IN A DYNAMIC WORKPLACE	3		

TOTAL CREDITS 18

SEMESTER 3		CREDITS	MILESTONE	✓
WLDG213	PIPE WELDING I LAB	6		
WLDG246	ADVANCED METAL FORMING AND FABRICATION THEORY AND PRACTICAL APPLICATION	5		
WLDG257	CUTTING PROCESSES II	5	*	

TOTAL CREDITS 16

SEMESTER 4		CREDITS	MILESTONE	✓
WLDG227	ADVANCED JOINING PROCESSES THEORY AND PRACTICAL APPLICATION	6		
WLDG245	METAL FABRICATION DESIGN AND CONSTRUCTION	5		
WLDG299	INDUSTRIAL WELDING CAPSTONE	5		

TOTAL CREDITS 16

You are finished!

Pathway Advising Notes: none

Course Advising Notes: M111: Courses must be taken in this order. Prerequisite to all welding courses.
 WLDG107: If students are unable to pass safety and obtain an OSHA card they cannot continue in the program.
 WLDG137: First semester WLDG courses and M111T are prerequisites.
 WLDG141: First semester WLDG courses and M111T are prerequisites.
 WLDG151: First semester WLDG courses and M111T are prerequisites.



WLDG213: First year courses and M111T are prerequisites.

WLDG246: First year courses and M111T are prerequisites.

WLDG257: First year courses and M111T are prerequisites. This course is the foundation for all second year courses.

WLDG227: Third semester WLDG Courses and M111T are prerequisites.

WLDG245: Third semester WLDG Courses and M111T are prerequisites.

WLDG299: Third semester WLDG Courses and M111T are prerequisites.