

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	✓
COMX106	Communicating in a Dynamic Workplace	3		
WLDG137	Blueprint Reading, Layout, and Beginning Fabrication	7		
WLDG141	GTAW Theory and Practical Application	4		
WLDG151	Shop Practices	4		

TOTAL CREDITS 18

SEMESTER 3		CREDITS	MILESTONE	✓
WLDG257	Cutting Processes II	5	*	
WLDG213	Pipe Welding I Lab	6		
WLDG246	Advanced Metal Forming and Fabrication Theory and Practical Application	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: -Classes must be taken in the order outlined on this pathway map, beginning in the fall semester. This includes M111 and COMX106.

-Program requires full-time enrollment.

-In order to advance, all previous semester classes must be passed with a C- or better.

-Students are expected to have required safety equipment and tools by the end of the first week of class. Please refer to the Helena College Catalog for a list of required tools and safety equipment, as well as preferred tool vendors.

Course Advising Notes: M111: This is the math class recommended for students in skilled trades programs, but other higher math classes may be substituted. Your advisor can help determine placement.

WLDG107: If students are unable to pass safety and obtain an OSHA card they cannot continue in the program.