

## Academic Pathways Map

### Welding Technology

C.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

**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.

-The C.A.S. in Welding Technology is the first year of the A.A.S. in Industrial Welding and Metal Fabrication. Refer to the A.A.S. Industrial Welding and Metal Fabrication pathway map for the second-year classes.

-Earning a Commercial Driver's License (CDL) is highly recommended to increase your marketability for employment. Helena College offers this training as a 4-credit class every semester, including summer: HEO 100. This class requires significant classroom hours and drive time, and it is not recommended for your first semester of college.

-Students are expected to have the 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.