

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

**Start Here**

<b>SEMESTER 1</b>		<b>CREDITS</b>	<b>MILESTONE</b>	<b>✓</b>
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**

<b>SEMESTER 2</b>		<b>CREDITS</b>	<b>MILESTONE</b>	<b>✓</b>
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**

<b>SEMESTER 3</b>		<b>CREDITS</b>	<b>MILESTONE</b>	<b>✓</b>
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**

<b>SEMESTER 4</b>		<b>CREDITS</b>	<b>MILESTONE</b>	<b>✓</b>
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.



**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.