

# Welding, A.A.S.

This program provides the background, skills, knowledge, understanding and techniques needed to produce quality weldments. Students gain knowledge of various materials and an understanding of the effects that heat and stress have on welded materials. Students should develop sufficient skills for American Welding Society Certification.

2 Years

## College Success

TIG Welding

WELD 106

3 Cr.

3 Cr.

You should meet with an academic counselor prior to registering for classes.

Prerequisite courses may apply to this program. A minimum of 60 unduplicated credits (100 level or higher) are required for all associate degree programs.

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2 Years

This is suggested course sequencing. Please see a counselor or advisor for individual adjustments.

<input type="checkbox"/> <b>College Success</b>	GNST 100	3 Cr.
<input type="checkbox"/> <i>Freshman English I</i>	ENGL 100	3 Cr.
<input type="checkbox"/> <b>Industrial Applied Algebra</b>	INDS 122	2 Cr.
<input type="checkbox"/> <b>Fundamentals of Welding</b>	WELD 101	3 Cr.
<input type="checkbox"/> <b>Choose 1</b>		
MIG Welding	WELD 105	3 Cr.
TIG Welding	WELD 106	3 Cr.

<input type="checkbox"/> <b>Choose 1</b>		
Survey of General Chemistry	CHEM 105	4 Cr.
College Physics I	PHYS 230	3 Cr.
<input type="checkbox"/> <b>Humanities Requirement</b>		3-4 Cr.
<input type="checkbox"/> <b>Basic Machine Operations</b>	INDS 129	4 Cr.
<input type="checkbox"/> <b>Choose 1</b>		
American Political System	POLI 240	3 Cr.
United States History to 1865	HIST 250	3 Cr.
United States History Since 1865	HIST 251	3 Cr.
if student wants HIST251, swap with communication requirement		
<input type="checkbox"/> <b>Test Plate Welding</b>	WELD 255	3 Cr.

<input type="checkbox"/> <b>Electrical Circuit Analysis</b>	ATMN 110	3 Cr.
<input type="checkbox"/> <i>Mathematics Requirement</i>		4 Cr.
<input type="checkbox"/> <b>Industrial Documentation &amp; Management</b>	TDSN 107	4 Cr.
<input type="checkbox"/> <b>Choose 1</b>		
MIG Welding	WELD 105	3 Cr.
TIG Welding	WELD 106	3 Cr.
<input type="checkbox"/> <b>Welding Fabrication &amp; Design</b>	WELD 265	3 Cr.

<input type="checkbox"/> <i>Communication Requirement</i>		3 Cr.
<input type="checkbox"/> <b>Metallurgy &amp; Heat Treatment</b>	INDS 130	2 Cr.
<input type="checkbox"/> <b>Welding Automation</b>	WELD 275	3 Cr.
<input type="checkbox"/> <b>Pipe Welding</b>	WELD 285	3 Cr.
<input type="checkbox"/> <b>Elective(s)</b> in ATMN, INDS, TDSN or WELD as needed to get to 60 credit hours		

Courses in italics may be taken in the summer term.

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5 Years

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- Success Skills for the 21st Century** GNST 100 3 Cr.
- Freshman English I* ENGL 100 3 Cr.

- Fundamentals of Welding** WELD 101 3 Cr.
- Choose 1**
  - MIG Welding WELD 105 3 Cr.
  - TIG Welding WELD 106 3 Cr.

- Choose 1**
  - MIG Welding WELD 105 3 Cr.
  - TIG Welding WELD 106 3 Cr.
- Test Plate Welding** WELD 255 3 Cr.

- Welding Fabrication & Design** WELD 265 3 Cr.
- Mathematics Requirement* 4 Cr.

- Industrial Applied Algebra** INDS 122 2 Cr.
- Industrial Documentation & Management** TDSN 107 4 Cr.

- Choose 1**
  - Survey of General Chemistry CHEM 105 4 Cr.
  - College Physics I PHYS 230 3 Cr.
- Basic Machine Operations** INDS 129 4 Cr.

- Electrical Circuit Analysis** ATMN 110 3 Cr.
- Metallurgy & Heat Treatment** INDS 130 2 Cr.

- Choose 1**
  - American Political System POLI 240 3 Cr.
  - United States History to 1865 HIST 250 3 Cr.
  - United States History Since 1865 HIST 251 3 Cr.
- Humanities Requirement** 3-4 Cr.

- Elective(s)** in ATMN, INDS, TDSN or WELD as needed to get to 60 credit hours

- Communication Requirement* 3 Cr.

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