

WELDING

About the Welding Program

Learn welding at your own pace, through hands-on learning, and with your instructor and success coach to guide you. The Welding program is designed to give students entry-level skills required in fabrication, construction, maintenance and other metal working industries. You'll also experience robotic welding, computerized cutting, safe overhead crane operation, and will learn blueprint reading, layout and fabrication techniques, and math and communication skills.

Requirements for welder certification will be explained, and simulated certification tests will be offered. Upon successfully completing the program, you'll have the skills needed to take a welding certification test or job-entry performance test.

PROGRAM OUTLINE

COURSE #	COURSE TITLE	CREDITS
1044217200	Safety in Manufacturing	1.00
10442172C01	Workplace Safety	0.50
10442172C02	OSHA 10 Certification	0.25
10442172C03	Forklift Certification	0.25
1044211200	Print Reading for Manufacturing	4.00
10442112C01	Print Interpretation and Weld Symbols	1.00
10442112C02	Print Reading and Sketching	3.00
1044215900	Gas Metal Arc Welding	3.00
10442159C01	Gas Metal Arc Welding on Carbon Steel	2.00
10442159C02	Gas Metal Arc Welding AWS Testing on Carbon Steel	1.00
1044217400	Advanced Gas Metal Arc Welding	3.00
10442174C01	Gas Metal Arc Welding-P on Stainless Steel	1.00
10442174C02	Gas Metal Arc Welding-P AWS Testing on Stainless Steel	0.5
10442174C03	Gas Metal Arc Welding-P on Aluminum	1.00
10442174C0	Gas Metal Arc Welding-P AWS Testing on Aluminum	0.5

COURSE #	COURSE TITLE	CREDITS
3180430200	Applied Technical Mathematics	2.00
	31804302C01 Geometry Skills 1.00	
	31804302C02 Math Skills 1.00	
1044216300	Weld Inspection and Testing	1.00
	10442163C01 Weld Inspection and Testing 1.00	
1044215800	Shielded Metal Arc Welding	2.00
	10442158C01 Shielded Arc Welding on Carbon Steel 1.5	
	10442158C02 Shielded Arc Welding AWS Testing on Carbon Steel 0.5	
1044217300	Thermal Cutting	1.00
	10442173C01 Thermal Cutting 1.00	
1044216000	Flux Cored Arc Weld	4.00
	10442160C01 Perform FCAW weld processes on carbon steel 3.00	
	10442160C02 02 Complete AWS tests using FCAW weld processes 1.00	
1089010200	Interpersonal Workplace Fundamentals	2.00
	10890102C0 Demonstrate Interpersonal and Communication Skills 1.00	
	10890102C02 Demonstrate Employability Skills and Career Awareness 1.00	
1044216100	Gas Tungsten Arc Welding on Carbon Steel	3.00
	10442161C01 Perform GTAW weld transfer processes on carbon steel 2.00	
	10442161C02 Complete AWS tests using GTAW weld transfer processes on carbon steel 1.00	

COURSE #	COURSE TITLE	CREDITS
1044216200	Gas Tungsten Arc Welding on Aluminum and Stainless	2.00
10442162C01	Perform GTAW weld transfer processes on stainless steel	.75
10442162C02	Complete AWS tests using GTAW weld transfer processes on stainless steel	.25
10442162C03	Perform GTAW weld transfer processes on aluminum	.75
10442162C04	Complete AWS tests using GTAW weld transfer Processes on aluminum	.25
1044216500	Welding Metallurgy	2.00
10442165C01	Identify basic characteristics of base metals	2.00
1044218000	Solidworks for Welding	1.00
10442180C01	Draft a Print using computer aided design	1.00
1044214100	Robotics and Automated Welding Applications	2.00
10442141C01	Operate fabrication equipment	2.00
1044211300	Welding Fabrications Techniques	2.00
10442113C01	Fabricate products from prints	2.00

Total Credits: 35.00

Talk with an Academic Advisor about the program outline. Together, you will determine if credits you've already earned satisfy any requirements, discuss possible alternative courses, and choose the best classes if you're thinking of transferring.

AT A GLANCE

Flexible Options



ON CAMPUS ONLINE CLASSES MULTIPLE START DATES PERSONALIZED PACE

2019 Start Dates

January 16	April 15	September 9
February 4	June 6	October 7
March 4	July 1	November 4
April 1	September 4	

2020 Start Dates

January 8	March 2	June 1
January 15	May 8	July 6
February 3	May 11	

What is Competency-Based Education?

Competency-Based Education (CBE) is learning at your own pace by mastering competencies through demonstration. Once all competencies for a program have been assessed and mastered, students will earn a certificate, diploma, or degree.

[LEARN MORE ABOUT CBE](#)

Approximate Cost

\$4,697*

Financial Aid Eligible

*Based on 10-level courses - materials, books, and fees may be additional

Student Equipment

Students are required to purchase welding kits through the college bookstore or obtain the minimum tools and equipment listed to be able to successfully complete coursework and performance assessments in the welding lab.

- Safety glasses
- Welders gloves MIG and TIG
- Chipping hammer
- Welding beanie
- 8-way welder pliers
- Soapstone holder
- Triple flint spark lighter
- Tape measure
- Weld fillet gauge
- Mag tool
- Material handling gloves
- Backhand pad
- Tool bag
- Welder pencils
- Auto darkening helmet
- Lens cover
- Welding jacket

Your Potential Careers

- Production Welder
- Maintenance Welder
- Job Shop Layout Welder
- Welding Sales and Service
- Self-employment

Get Started

Your application can be submitted online, it takes just a few minutes to complete.

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