

Welding



PIKES PEAK
COMMUNITY
COLLEGE

Is the Welding profession right for you?

Do you have the ability to read and follow detailed instructions?

Are you mechanically inclined?

Do you enjoy precision work?

Do you like working with your hands?

Do you have the ability to read and follow detailed instructions?

PPCC's Welding Website:

<https://www.ppcc.edu/degrees-certificates/welding>

Career Opportunities

The Associate of Applied Science (AAS) Degrees in Welding is designed to prepare students for immediate entry into the welding field. A degree in welding can lead to the following careers:

- Assembly Welder
- Welder Fitter
- Fabrication
- Cutter
- Pipeline Welder
- Track Welder

PPCC also offers the following certificates:

- Entry Level Welding
- Gas Metal Arc Welding (GMAW)
- Gas Tungsten Arc Welding (GTAW)
- Pipe Welding
- Shielded Metal Arc Welding (SMAW)

Earning potential in the Welding field:

- 2019 median annual income nationally: \$42,490
- 2019 median annual income in Colorado: \$47,230
- Projected job openings nationally (2018-2028) are expected to increase by 2% to 3%
- Projected job openings in Colorado (2016-2026) are expected to increase by 13%

Income statistics can be found at:

<https://www.onetonline.org/link/summary/51-4121.06>

Faculty

Our faculty and adjuncts have many years of experience in all aspects of welding. Many are still working in the industry.

Other Information

Our Welding program has an 86% job placement rate among graduates.

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Sample Academic Plan for Full Time Student

Semester 1 (Course & Credit Hours) Total 15 Credits	
CSC 105 Computer Literacy (3)	
MAT 107 Career Math (3)	
WEL 100 Safety for Welders (1)	
WEL 106 Blueprint Reading for Welders & Fitters (4)	
WEL 113 Oxyfuel & Plasma Cutting (2)	
WEL 114 Oxyacetylene Welding (2)	
WEL 121 Structural Welding I (3)	
Semester 2 (Course & Credit Hours) Total 18 or 20 Credits	
COM 225 Organizational Communication (3)	
1 General Education Elective (3)	
WEL 122 Structural Welding II (3)	
WEL 124 Introduction to Gas Tungsten Arc Welding (4)	
2 Electives from list below (3 or 4)	
Semester 3 (Course & Credit Hours) Total 17 or 19 Credits	
1 General Education Elective (3)	
WEL 125 Introduction to Gas Metal Arc Welding (4)	
WEL 224 Advanced Gas Tungsten Arc Welding (4)	
2 Electives from list below (3 or 4)	
Semester 4 (Course & Credit Hours) Total 17 or 19 Credits	
WEL 225 Advanced Gas Metal Arc Welding (4)	
4 Electives from list below (3 or 4)	
Welding Electives 26 Credits Required	
MAC 101 Introduction to Machine Shop (3)	WEL 205 Introduction to Ornamental Iron (4)
MAC 110 Introduction to Engine Lathe (3)	WEL 230 Pipe Welding I (4)
MAC 120 Introduction to Milling Machine (3)	WEL 231 Pipe Welding II (4)
MAC 240 CAD/CAM 2D (3)	WEL 250 Layout & Fabrication (4)
MAC 241 CAD/CAM 2D Lab (3)	WEL 263 Applied Metal Properties (4)
MAC 252 Practical Metallurgy (3)	WEL 264 Creative Welding (4)
WEL 180 Internship (4)	WEL 280 Internship (4)
WEL 200 Advanced CAD/CAM Cutting Process (4)	WEL 289 Capstone (4)

Next Step, apply free at: <https://www.ppcc.edu/enroll>

Course Availability by Semester

Fall Offerings

Blank = no offering of course

Course Number & Title	Availability
WEL 100 Safety for Welders	Online
WEL 106 Blueprint Reading for Welders & Fitters	Online
WEL 113 Oxyfuel & Plasma Cutting	Day and Evening
WEL 114 Oxyacetylene Welding	Day and Evening
WEL 115 Autobody Welding & Cutting	
WEL 121 Structural Welding I	Day and Evening
WEL 122 Structural Welding II	Day and Evening
WEL 124 Introduction to Gas Tungsten Arc Welding	Day and Evening
WEL 125 Introduction to Gas Metal Arc Welding	Day and Evening
WEL 130 Maintenance Welding	
WEL 180 Internship*	
WEL 200 Advanced CAD/CAM Cutting Processes	Day
WEL 205 Introduction to Ornamental Iron	Day and Evening
WEL 224 Advanced Gas Tungsten Arc Welding	Day and Evening
WEL 225 Advanced Gas Metal Arc Welding	Day and Evening
WEL 230 Pipe Welding I	Day and Evening
WEL 231 Pipe Welding II	Day and Evening
WEL 240 Pipe Welding Certification	
WEL 250 Layout & Fabrication	Day and Evening
WEL 263 Applied Metal Properties	Online
WEL 264 Creative Welding	Day and Evening
WEL 280 Internship*	
WEL 289 Capstone	Day

Spring Offerings

Blank = no offering of course

Course Number & Title	Availability
WEL 100 Safety for Welders	Online
WEL 106 Blueprint Reading for Welders & Fitters	Online
WEL 113 Oxyfuel & Plasma Cutting	Day and Evening
WEL 114 Oxyacetylene Welding	Day and Evening
WEL 115 Autobody Welding & Cutting	
WEL 121 Structural Welding I	Day and Evening
WEL 122 Structural Welding II	Day and Evening
WEL 124 Introduction to Gas Tungsten Arc Welding	Day and Evening
WEL 125 Introduction to Gas Metal Arc Welding	Day and Evening
WEL 130 Maintenance Welding	
WEL 180 Internship*	
WEL 200 Advanced CAD/CAM Cutting Processes	Day
WEL 205 Introduction to Ornamental Iron	Day and Evening
WEL 224 Advanced Gas Tungsten Arc Welding	Day and Evening
WEL 225 Advanced Gas Metal Arc Welding	Day and Evening
WEL 230 Pipe Welding I	Day and Evening
WEL 231 Pipe Welding II	Day and Evening
WEL 240 Pipe Welding Certification	
WEL 250 Layout & Fabrication	Day and Evening
WEL 263 Applied Metal Properties	Online
WEL 264 Creative Welding	Day and Evening
WEL 280 Internship*	
WEL 289 Capstone	Day

***Internship schedule is determined by the business hosting the intern**

Course Availability by Semester

Summer Offerings

Blank = no offering of course

Course Number & Title	Availability
WEL 100 Safety for Welders	Online
WEL 106 Blueprint Reading for Welders & Fitters	Online
WEL 113 Oxyfuel & Plasma Cutting	Day and Evening
WEL 114 Oxyacetylene Welding	Day and Evening
WEL 115 Autobody Welding & Cutting	
WEL 121 Structural Welding I	Day and Evening
WEL 122 Structural Welding II	Day and Evening
WEL 124 Introduction to Gas Tungsten Arc Welding	Day and Evening
WEL 125 Introduction to Gas Metal Arc Welding	Day and Evening
WEL 130 Maintenance Welding	
WEL 180 Internship*	
WEL 200 Advanced CAD/CAM Cutting Processes	Day
WEL 205 Introduction to Ornamental Iron	Day and Evening
WEL 224 Advanced Gas Tungsten Arc Welding	Day and Evening
WEL 225 Advanced Gas Metal Arc Welding	Day and Evening
WEL 230 Pipe Welding I	Day and Evening
WEL 231 Pipe Welding II	Day and Evening
WEL 240 Pipe Welding Certification	
WEL 250 Layout & Fabrication	Day and Evening
WEL 263 Applied Metal Properties	Online
WEL 264 Creative Welding	Day and Evening
WEL 280 Internship*	
WEL 289 Capstone	Day

***Internship schedule is determined by the business hosting the intern**