



# Manufacturing Certificate

(13 Quarter Credits)

2018-2019

The Manufacturing Certificate is designed to prepare students for entry-level welding employment in a manufacturing environment. Career opportunities include entry level jobs in cutting parts, blueprint reading and fitting, tacking, production welding, repair welding and fabrication.

**Program Prerequisites:**

- MTH 20 Basic Math (4 credits) or placement into MTH 60
- Place into RD 90 Transformative Reading
- Place into WR 90 Introductory Writing

Course Number	Course Title	Prerequisites	Credits
<b>Fall Term</b>			
<input type="checkbox"/> WLD 195	Welding Technology I	none	3
<input type="checkbox"/> MTH 98	Quantitative Math	Place into RD 90 and WR 90; MTH 20 or test	4
<b>Winter Term</b>			
<input type="checkbox"/> MFG 150	Manufacturing Processes	WLD 195	3
<b>Spring Term</b>			
<input type="checkbox"/> MFG 155	Blueprint Reading	WLD 195	3
<b>Total Quarter Credits</b>			13

**Comprehensive Certificate Requirements & Limitations:**

- All candidates for a degree must have at least a 2.0 minimum cumulative grade point average (“C” average).
- At least 12 credits must be earned at CGCC, nine of which must apply to the certificate requirements. The final 9 credits must be earned at CGCC.
- A maximum of 12 credits of “P” (pass) grades will apply to any one-year certificate. Some certificate requirements may vary and will be listed in that specific certificate.
- No more than 12 credits of Cooperative Education courses may apply to any one-year certificate.
- Only nine credits of 199 and 299 experimental courses apply.

**This form is intended for advising purposes only. See your declared catalog for a complete list of degree requirements.**

*Columbia Gorge Community College is an equal opportunity educator and employer.*