

WELDING (AS.WLD)

ASSOCIATE OF SCIENCE

Program Outcomes: Upon successful completion of this program a student will be able to:

- demonstrate the use of welding and metal cutting processes safely and correctly.
- perform welding procedures in two or more methods on steel test plates in two or more welding positions.
- interpret and analyze fabrication prints, develop parts and cutting lists, and select and calibrate welding and cutting methods to fabricate assigned projects.

Required Courses (28 units)

<input type="checkbox"/>	CMA-74 – Industrial Print Reading and Drawing	3.0
<input type="checkbox"/>	MFGT-169 – Hazardous Materials and Industrial Safety	2.0
<input type="checkbox"/>	WLD-150 – Introduction to Arc Welding	3.0
<input type="checkbox"/>	WLD-151 – Introduction to GTAW/TIG Welding	3.0
<input type="checkbox"/>	WLD-152 – Sheet Metal Fabrication	2.0
<input type="checkbox"/>	WLD-153 – Welding Fabrication	3.0
<input type="checkbox"/>	WLD-154 – Advanced Arc Welding	3.0
<input type="checkbox"/>	WLD-155 – Ornamental Ironwork	2.0
<input type="checkbox"/>	WLD-156 – Toolmaking	2.0
<input type="checkbox"/>	WLD-157 – Pipe Welding	3.0
<input type="checkbox"/>	WLD-158 – Hardfacing and Surfacing	2.0

Restricted Major Electives (Complete 9 units)

<input type="checkbox"/>	CMA-75 – Engineering Drawing/Solid Works	3.0
<input type="checkbox"/>	CMA-81 – Computer Aided Drafting and Design	3.0
<input type="checkbox"/>	MFGT-130 – Introduction to Metal Fabrication	3.0
<input type="checkbox"/>	MFGT-150 – Introduction to Industrial Electricity	2.0
<input type="checkbox"/>	WLD-99 – Cooperative Work Experience	1.0-4.0

SUBTOTAL: 37 UNITS

General Education – Required Courses

Students must complete one of the following General Education Plans:

HCCD GE (see page 66) *MAT-123 or higher*

- Natural Sciences Social & Behavioral Sciences Humanities
 Ethnic Groups in the US Language and Rationality

SUBTOTAL: 21 UNITS

Students can double-count required courses and courses for General Education

- *Electives (Courses Numbered 1-199) required when degree units plus GE units total fewer than 60.*

TOTAL: 60 UNITS