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)

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

Restricted Major Electives (Complete 9 units)

- CMA-75 – Engineering Drawing/Solid Works 3.0
- CMA-81 – Computer Aided Drafting and Design 3.0
- MFGT-130 – Introduction to Metal Fabrication 3.0
- MFGT-150 – Introduction to Industrial Electricity 2.0
- 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