

## **WELDING AND FABRICATION ASSOCIATE IN APPLIED SCIENCE DEGREE (WELD D568)**

|     |     |              |     |
|-----|-----|--------------|-----|
| FCC | LTC | <b>✓ OCC</b> | WVC |
|-----|-----|--------------|-----|

The Welding and Fabrication program is designed to prepare welders and fabricators to meet the needs of the industry. This includes, but not limited to, the successful completion of a 6g pipe/tube test, extensive knowledge over technical document and tool reading, and successful welding on exotic metals and alloys. Jobs available in local industries are pipefitting/welding, boiler making, ironworking, sheet metal working, fabrication, and production welding.

**First Semester** **Credit Hours 19**

|     |      |   |    |
|-----|------|---|----|
| MTH | 1201 | Technical Mathematics <sup>1</sup>      | V3 |
| WEL | 1210 | Gas Metal Arc Welding                   | 2  |
| WEL | 1215 | Shielded Metal Arc Welding I            | 2  |
| WEL | 1220 | Metal Cutting and Preparation <b>OR</b> |    |
|     |      | Elective                                | 4  |
| WEL | 1225 | Blueprint Reading                       | 4  |
| WEL | 1230 | Shielded Metal Arc Welding II           | 2  |
| WEL | 1260 | Combination Welding I                   | 2  |

**Second Semester** **Credit Hours 15**

|     |      |                             |   |
|-----|------|-----------------------------|---|
| ENG | 1201 | Communications <sup>1</sup> | 3 |
| WEL | 1235 | Flux Cored Arc Welding      | 3 |
| WEL | 1240 | Welding Certification I     | 2 |
| WEL | 1245 | Gas Tungsten Arc Welding    | 2 |
| WEL | 1250 | Welding Metallurgy          | 2 |
| WEL | 2225 | Pipe Welding Certification  | 3 |

**Third Semester** **Credit Hours 12**

|     |      |   |   |
|-----|------|---|---|
| SPE | 1101 | Fundamentals of Effective Speaking <sup>1</sup> | 3 |
| WEL | 2235 | Advanced Gas Metal Arc Welding                  | 3 |
| WEL | 2240 | Combination Pipe Welding                        | 3 |
| WEL | 2245 | Design and Fabrication                          | 3 |

**Fourth Semester** **Credit Hours 14**

|     |      |  |          |
|-----|------|--|----------|
| GEN | 2297 | General Employment Skills <sup>1</sup>       | V2       |
| WEL | 2250 | 6g Pipe Certification                        | 3        |
| WEL | 2255 | Pipe and Tube Preparation                    | 1        |
| WEL | 2260 | Exotics                                      | 2        |
|     |      | Social Science Gen Ed Elective <sup>1*</sup> | 3        |
|     |      | General Education Elective <sup>1</sup>      | <u>3</u> |

**Total Credit Hours** **60**

<sup>1</sup>General Education Hours (17)

\*Course must satisfy the IECC human diversity requirement.