

WELDING

Associate of Applied Science Degree

The Welding/Metal Fabrication Program stresses the practical applications of welding on plate and pipe in all positions and the necessary theory to support those skill levels. Welding skills are developed by using the following processes: oxy-acetylene, stick electrode, metal inert gas (MIG), and tungsten-inert gas (TIG) welding. Support courses in mathematics, blueprint reading, drafting and metallurgy are included in the program.

NOTES:

1. A student must earn a grade of "C" or higher in order to receive a degree or certificate.
2. Attendance is an intricate part of the learning process, thus, poor attendance can contribute to poor student success.
3. **All courses must be taken in course number sequence.**
4. Recommended course sequencing for first time students:

| 1st Semester | | Credits |
|----------------------|---|----------------|
| WELD 129 | Basic Welding I | 4 |
| WELD 130 | Basic Welding II | 4 |
| WELD 131 | Basic MIG Welding | 4 |
| WELD 132 | Basic TIG Welding | 4 |
| WELD 128 | Blueprint Reading for Welders | 3 |
| ENGL 118 | Technical Composition | 3 |
| Total | | 22 |
| 2nd Semester | | |
| WELD 133 | Plate Welding I | 4 |
| WELD 134 | Plate Welding II | 3 |
| WELD 135 | Introduction to Metal Fabrication I | 3 |
| WELD 136 | Introduction to Metal Fabrication II | 3 |
| MATH 113 | Applied Mathematics for Vocational Students | 3 |
| ENGL 218 | Technical Writing | 3 |
| Total | | 19 |
| 3rd Semester | | |
| WELD 204 | Pipe Welding 1-G/2-G Position | 3 |
| WELD 205 | Pipe Welding 5-G/6-G Position | 4 |
| WELD 206 | Intermediate Metal Fabrication I | 3 |
| WELD 207 | Intermediate Metal Fabrication II | 4 |
| WELD 211 | Welding Related Metallurgy | 3 |
| SPCH 110 | Public Speaking OR | |
| SPCH 111 | Interpersonal Communication | 3 |
| Total | | 20 |
| 4th Semester | | |
| WELD 208 | Advanced 2-G/5-G Pipe Welding | 3 |
| WELD 209 | Advanced 6-G Pipe Welding | 3 |
| WELD 217* | Pipe Fabrication and Layout I | 4 |
| WELD 218 | Pipe Fabrication and Layout II | 4 |
| WELD 229* | Template Theory and Construction | 3 |
| DRFT 111 | Drafting for Industry | 3 |
| | Humanities/Social Science Elective | 3 |
| Total | | 23 |
| Total Credits | | 84 |

Note: Courses indicated with an asterisk (*) must be taken together.