

WELDING
ASSOCIATE OF APPLIED SCIENCE DEGREE
Catalog 2008-2009

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.

NOTE:

1. A student must earn a grade of "C" or higher in order to receive a degree.
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 sequences.**
4. Recommended course sequencing for first time students:

1st Semester

| | | | | | |
|-------|------|-----|---|----------|--|
| _____ | ENGL | 118 | Technical Compositions | 3 | |
| _____ | 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 | Blue Print Reading for Welders (offered fall semester only) | <u>3</u> | |
| | | | | Total 22 | |

2nd Semester

| | | | | | |
|-------|------|-----|--------------------------------------|----------|--|
| _____ | ENGL | 218 | Advanced Technical Composition | 3 | |
| _____ | MATH | 113 | Applied Math for Vocational Students | 3 | |
| _____ | 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 | <u>3</u> | |
| | | | | Total 19 | |

3rd Semester

| | | | | | |
|-------|------|-----|---|----------|--|
| _____ | SPCH | 110 | Public Speaking OR | | |
| _____ | SPCH | 111 | Interpersonal Communication | 3 | |
| _____ | 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 (offered fall semester only) | <u>3</u> | |
| | | | | Total 20 | |

4th Semester

| | | | | | |
|-------|------|------|--|----------|--|
| _____ | DRFT | 111 | Drafting for Industry (offered spring semester only) | 3 | |
| _____ | | | Humanities/Social Science Elective** | 3 | |
| _____ | 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 | <u>3</u> | |
| | | | | Total 23 | |

Total Credits for this degree is 84 credits

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

** See page 51, Humanities and Social Science Elective, 2007-2008 San Juan College catalog.