



## **WELD-207-INTERMEDIATE METAL FABRICATION II 4 CREDITS**

### **SYLLABUS**

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#### **CATALOG DESCRIPTION**

A continuation of Intermediate Metal Fabrication I with an emphasis on methods of metal production, metal properties, and properly choosing of materials to construct metal fabrication products.

Prerequisites: WELD-133, WELD-134, WELD-135 and WELD-136

Corequisites: WELD-204, WELD-205, WELD-206

Semester Offered: Fall, Spring

#### ***Common Student Learning Outcomes***

*Upon successful completion of San Juan College programs and degrees, the student will demonstrate competency in...*

##### **BROAD AND SPECIALIZED LEARNING**

Students will actively and independently acquire, apply, and adapt skills and knowledge with an awareness of global contexts.

##### **CRITICAL THINKING**

Students will think analytically and creatively to explore ideas, make connections, draw conclusions and solve problems.

##### **CULTURAL AND CIVIC ENGAGEMENT**

Students will act purposefully, reflectively, and ethically in diverse and complex environments.

##### **EFFECTIVE COMMUNICATION**

Students will exchange ideas and information with clarity in multiple contexts.

##### **INFORMATION LITERACY**

Students will be able to recognize when information is needed and have the ability to locate, evaluate, and use it effectively.

##### **INTEGRATING TECHNOLOGIES**

Students will demonstrate fluency in the application and use of technologies in multiple contexts.

*Student work from this class may be randomly selected and used anonymously for assessment of course, program, and/or institutional learning outcomes. For more information, please refer to the Dean of the appropriate School.*

#### **Course Learning Outcomes**

Upon successful completion of the course, the student will be able to...

1. Familiarize students with methods of metal production.
2. Utilize special welding specifications on structural shapes.

## **Specific Learning Outcomes**

Upon successful completion of the course, the student will be able to...

1. Work from blueprints and construct objects.
2. Layout and design projects.
3. Work with various structural shapes of metal.
4. Use time effectively.
5. Safely work with equipment used in Metal Fabrication, drill press, metal roll, metal brake, cut-off saw, plasma cutter, and band saw.