



## **WELD-136-INTRODUCTION TO METAL FABRICATION II 3 CREDITS**

### **SYLLABUS**

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#### **CATALOG DESCRIPTION**

This class will focus on layout along with fabrication techniques as related to structural welding and repair. Emphasis will be on construction and repair of projects to tolerances using small groups and blueprints as applicable to industry settings. A variety of welding processes and all welding positions will be used.

Prerequisites: WELD-129, WELD-130, WELD-131, WELD-132

Corequisites: WELD-133, WELD-134, WELD-135

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**

1. Fabricate projects to tolerances using industry methods.
2. Students will also weld in all processes and methods as needed to repair or construct assigned projects.

## **Specific Learning Outcomes**

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

1. Apply knowledge, skills and terminology to communicate with others to repair projects.
2. Prepare blueprints bill of materials and procedure as related to projects.
3. Safely work with others using all metal fabrication equipment needed for projects.