

**J. Sargeant Reynolds Community College
Course Content Summary**

Course Prefix and Number: WEL 155

Credits: 2

Course Title: Ornamental Welding

Course Description: Introduces students to basic equipment, safety, and processes useful in the fabrication of welded ornamental objects. Lecture 1 hour. Laboratory 3 hours. Total 4 hours per week.

General Course Purpose: To provide students with knowledge and practice useful in creating metal sculpture, yard art, household projects, and other artistic metal work.

Course Prerequisites and Co-requisites:

None

Course Objectives:

Upon completing the course, the student will be able to

- a. Recognize and use proper safety procedures while welding;
- b. Demonstrate the ability to perform correct equipment setup;
- c. Demonstrate the ability to use oxyacetylene welding equipment;
- d. Demonstrate the ability to use Gas Metal Arc Welding equipment; and
- e. Fabricate a project of the student's choice.

Major Topics to Be Included:

- a. Oxyacetylene Cutting
- b. Torch Brazing
- c. Gas Metal Arc Welding
- d. Creative Metalworking

Effective Date of Course Content Summary: November 6, 2014