



COURSE OUTLINE : WELD 49

D Credit – Degree Applicable

COURSE ID 008378

Cyclical Review: October 2020

COURSE DISCIPLINE : WELD
COURSE NUMBER : 49
COURSE TITLE (FULL) : Welding Independent Study
COURSE TITLE (SHORT) : Welding Independent Study

CATALOG DESCRIPTION

WELD 49 provides well-qualified students with an opportunity to explore a subject in greater depth than usual, to familiarize students with some basic research techniques, to interest students in possible career areas, and to take advantage of special academic interests. Emphasis shall be on individual research projects, library research and preparation of research papers. There is no prescribed course content. Students develop a research project, have it approved by the sponsoring instructor and appropriate division chairperson, then submit the finished project, which may be library research, or perhaps a supervised experimental program related to a specific course of instruction. Registration is open to any student at GCC who is currently registered for 6 or more units and who is admitted to Independent Study by the instructor. A student is limited to one Independent Study per semester and no more than 12 units credit toward the AA Degree or Certificate, and no more than 6 units per division. The units received may be acceptable for college transfer subject to the approval of the individual college.

CATALOG NOTES

Note: Independent Study are arranged by faculty in the Technology and Aviation Division. This course may be taken 3 times; a maximum of 9 units may be earned.

Total Lecture Units: 0.00

Total Laboratory Units: 1.00-3.00

Total Course Units: 1.00-3.00

Total Lecture Hours: 0.00

Total Laboratory Hours: 54.00-162.00

Total Laboratory Hours To Be Arranged: 0.00

Total Contact Hours: 54.00-162.00

Total Out-of-Class Hours: 0.00

Prerequisite: Concurrent registration in 6 or more units.



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ENTRY STANDARDS

| | Subject | Number | Title | Description | Include |
|---|---------|--------|-------|--|---------|
| 1 | | | | skills expectations: varies with subject and research area choice. | Yes |

EXIT STANDARDS

- 1 conduct independent discipline-specific research activities;
- 2 demonstrate a specific in-depth knowledge in the discipline involved.

STUDENT LEARNING OUTCOMES

- 1 apply concepts and knowledge of discipline-specific materials to research projects, essays, and other assignments

COURSE CONTENT WITH INSTRUCTIONAL HOURS

| | Description | Lecture | Lab | Total Hours |
|---|------------------|---------|-----|-------------|
| 1 | Research project | | 162 | 162 |
| | | | | 162 |

OUT OF CLASS ASSIGNMENTS

- 1 research project

METHODS OF EVALUATION

- 1 N/A

METHODS OF INSTRUCTION

- Lecture
- Laboratory
- Studio
- Discussion
- Multimedia
- Tutorial
- Independent Study
- Collaboratory Learning
- Demonstration



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Field Activities (Trips)

Guest Speakers

Presentations

TEXTBOOKS

| Title | Type | Publisher | Edition | Medium | Author | ISBN | Date |
|---|-------------|------------------|----------------|---------------|---------------|-------------|-------------|
| No required textbooks. Readings may be assigned by Faculty Advisor | | | | | | | |