

Moberly Area Community College Common Syllabus

WLD102 Welding II Current Term

Instructor:

Office number:

Office hours:

Response time: I typically respond to student emails within 24 hours, Monday through Friday.

Contact information:

Classroom number:

Section number(s):

Class days and time:

Catalog Description: WLD102 Welding II (2-2-3)

This course is a continuation of Welding I. Students will expand knowledge gained from level 1 and begin to learn more about welding prints and structural materials. Students will learn ways to identify welding problems, their causes, and corrective action to take. GTAW will be performed in various positions on ferrous and nonferrous materials. Students will continue to learn how to SMAW in various positions.

Prerequisite/Corequisite: A grade of "C" or higher in WLD101 or instructor approval

Text(s): None

Other Required Materials:

Purpose of Course: This course is designed to provide intermediate to advanced welding skills, use of common metalworking tools, blueprint reading skills, and prepare the student for certification by the American Welding Society (AWS). The course is a core requirement for the Welding and Metals Associate of Applied Science degree and One-Year Certificate.

Course Objectives (CO):

Upon successful completion of this course, students will be able to:

1. Using GMAW welding equipment:
 - a. Make weld in 3G position with carbon steel – uphill
 - b. Make weld in 3G position with carbon steel – downhill
2. Using GTAW welding equipment:
 - a. Make weld in 1F, 2F, 1G and 2G positions – stainless steel
 - b. Make weld in 1F, 2F, 1G, and 2G positions – aluminum
 - c. Make weld in 1F, 2f, 1G and 2G positions – carbon steel

3. Demonstrate appropriate safety procedures
4. Use plasma cutting equipment safely and properly

Course Content: This course consists of lecture, discussion and laboratory exercises. Students will receive a welding competency task list which students should master at their own pace. The instructor is required to validate and evaluate skill mastery at each level. Several exams covering reading assignments and classroom discussions will be administered. Although grades are of importance, competency mastery is the objective of the course.

Statement to Connect Course with Institutional Student Level Outcomes:

In compliance with MACC’s Institutional Student Level Outcomes, the student who successfully completes this course will be able to meet the following institutional learning outcomes:

- **Higher Order Thinking:** Students will demonstrate the ability to distinguish among opinions, facts, and inferences; to identify underlying or implicit assumptions; to make informed judgments; to solve problems by applying evaluative standards; and to reflect upon and refine those problem-solving skills. This outcome involves creative thinking, critical thinking, and quantitative literacy.
- **Communication:** Students will demonstrate the ability to communicate effectively through oral, written, or digital channels using the English language or quantitative or other symbolic systems. Students should be able to write and speak with thoughtfulness, clarity, coherence, and persuasiveness; read and listen critically; and select channels appropriate to the audience and message.
- **Managing Information:** Students will demonstrate the ability to discern when there is a need for information; and to identify, locate, evaluate, and effectively and responsibly use and share that information for the problem at hand.

EVALUATION OF STUDENT LEARNING

Grade Scale:

- A = 90-100%
- B = 80-89%
- C = 70-79%
- D = 60-69%
- F = 59 and below

Evaluation:

(State the way learning outcomes will be measured. They may be measured through, but not limited to, the following: objective and essay questions, papers, quizzes, oral presentations, class participation, small group work, and/or projects.)

Description of Assignment(s)/Project(s)

Per instructor

INSTRUCTOR POLICIES

Tardiness:

Per instructor's policy

Make-up and late work:

Per instructor's policy

Extra-credit work:

Per instructor's policy

Schedule of Student Assignments/Activities:

(Instructors will identify a Student Assignment/Activities schedule. Instructors have the prerogative to construct the schedule by class periods, weeks, or an overview of topics to be covered.)

COLLEGEWIDE POLICIES:

All faculty and students need to be aware of collegewide policies and procedures. Statements on Academic Dishonesty, ADA, Attendance, Title IX, and other important collegewide policies can be accessed by clicking on the following: [Collegewide Policies in Student Resources](#).