

JAMESTOWN COMMUNITY COLLEGE
State University of New York

INSTITUTIONAL COURSE SYLLABUS

Course Title: Capstone Project

Course Abbreviation and Number: WLD 2450

Credit Hours: 2

Course Type: Lecture

Course Description: Through research, discussion, and presentation, students will apply welding technology knowledge toward a real life problem. Each student will prepare a case study of a local industry problem or application as well as a solution to the problem. Process selection, joint design, cost estimating, and design of a welded project are required.

Corequisite: WLD 2350; **Prerequisite:** student must be within one semester of graduation or have permission of instructor.

General Education Requirements Met

JCC

Applied Learning

Student Learning Outcomes:

Students who demonstrate understanding can:

1. Determine what process would be most suitable for building a project.
 2. Set up procedure to fabricate the project using the Lincoln Arc works program
 3. Effectively apply knowledge and skills to a real-world experience, creative project, or independent intellectual investigation. [JCC Gen Ed – Applied Learning]
 4. Thoughtfully reflect on connections between concepts studies in the classroom and insights gained from an applied learning experience/project. [JCC Gen Ed – Applied Learning]
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Topics Covered:

- Picking Project
 - Present proposal
 - Material list
 - Cut list
 - Pre-build
 - Process decision
 - Blueprints
 - Procedure development
 - Qualifying process
 - Qualifying welder
 - Cost analysis
 - Build
 - Job development
 - Fitup
 - build
 - Post-build
 - Reflections
 - Presentation
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Information for Students

- Expectations of Students
 - [Civility Statement](#)
 - [Student Responsibility Statement](#)
 - [Academic Integrity Statement](#)
 - [Accessibility Services](#)

Students who require accommodations to complete the requirements and expectations of this course because of a disability must make their accommodation requests to the Accessibility Services Coordinator.
 - [Get Help: JCC & Community Resources](#)
 - [Emergency Closing Procedures](#)
 - Course grade is determined by the instructor based on a combination of factors, including but not limited to, homework, quizzes, exams, projects, and participation. Final course grade can be translated into a grade point value according to the following:

A=4.0	B+=3.5	B=3	C+=2.5	C=2	D+=1.5	D=1	F=0
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 - Veterans and active duty military personnel with special circumstances (e.g., upcoming deployments, drill requirements, VA appointments) are welcome and encouraged to communicate these to the instructor.
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Effective Date: Fall 2021