



# Capstone Welding Design I

## WELDENG 4901

**Credit Hours:**

2.00

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**Course Levels:**

Undergraduate (1000-5000 level)

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**Course Components:**

Lecture

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**Course Description:**

Group design projects building on all aspects of Welding Engineering.

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**Prerequisites and Co-requisites:**

Prereq: Sr standing in WeldEng-BS major, or permission of instructor.

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**Course Goals / Objectives:**

- Learn how research a topic proposed by a sponsor and prepare a research proposal
  - Communicate with the research sponsor, course coordinator, and faculty advisor in the development of the proposal
  - Perform initial investigations and testing to meet the objectives of the proposal
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**Course Topics:**

- Course introduction and guidelines for proposal development
  - Groups communicate with sponsors and advisors to understand problem definition and critical issues
  - Groups develop draft proposal
  - Draft proposal presentations
  - Revise and finalize proposal
  - Final proposal presentations
  - Testing and analysis from proposal
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**Designation:**

Required