Capstone Welding Design I

WELDENG 4901

Credit Hours:
2.00

Course Levels:
Undergraduate (1000-5000 level)

Course Components:
Lecture

Course Description:
Group design projects building on all aspects of Welding Engineering.

Prerequisites and Co-requisites:
Prereq: Sr standing in WeldEng-BS major, or permission of instructor.

Course Goals / Objectives:
- Learn how to 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

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

Designation:
Required