

WSI 400 - MARINE TECHNOLOGY CAPSTONE

Course Description

This course requires the synthesis and integration of knowledge and skills acquired across the Marine Technology curriculum for completion of a team oriented project and will require significant written, oral and visual deliverables including a final presentation. These field based projects will demonstrate a comprehensive approach to mission planning, technical equipment competency, budgeting, data collection/ processing and dissemination to an audience. Group 2 course.

Credit Hours

4

Contact Hours

4

Lecture Hours

4

Required Prerequisites

WSI 390, WSI 405, WSI 433, WSI 440 can be taken concurrently.

General Education Outcomes supported by this course

Communications - Direct, Critical Thinking - Direct

Course Learning Outcomes

Knowledge:

- Define project requirements.
- Execute system design.
- Communicate outcomes to stakeholders.

Application:

- Apply tools and principles of physics, oceanography, meteorology, and climatology to solve marine problems.

Integration:

- Create a marine solution integrating marine knowledge and skill with project management and teamwork abilities.

Human Dimension:

- Communicate project requirements, processes, and outcomes as part of a development team.

Caring - Civic Learning:

- Assess the impact and value of a marine solution.

Learning How to Learn:

- Experience the value of iterative and incremental development during a complex project with emergent requirements.