EETC 2930
Spring, 2001

PROJECT MANAGEMENT & ENGINEERING

COURSE SYLLABUS

Instructor

Susan Phillips

Contact

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Course Description

Project management techniques and standard industry practices are combined with a real engineering project in which students participate at various levels of responsibility. Course includes organizational and hardware experiences that bring a proposal to final product.

Course Objective

To design and build a remotely operated vehicle and compete in MATE's international ROV competition.

Course Material

Title: Introduction to Underwater Technology & Vehicle Design
Author: Harry Bohm and Vickie Jensen
Publisher: Marine Advanced Technology Education (MATE) Center
Edition: Draft **Date:** 2001

*There is a class copy of this text. It is not yet available for purchase.

Grading Procedures

Grades will be determined on the basis of the number of points achieved divided by the number of points possible. The grade is determined by (1) adding total number of points achieved; (2) adding total number of points possible; (3) dividing points achieved by points possible; (4) multiplying by 100 to arrive at a percentage.

Participation in constructing the team ROV will count as half your grade or 250 points. The Project Management and Engineering Notebook counts as the other half of your grade or 250 points and should include the following: (See text and handout for more detail.)

- **Pre-design Phase**

  1. Mission Statement
  2. Mission Requirements
  3. Performance requirements

- **Design Phase**

  1. Conceptual Design
  2. Detail Design

- **Post-Design Phase**

  1. Construction
  2. Testing, Trials, Demonstrations
  3. Operations

- **Final Report**: Evaluation & Improvements

- **Appendices**

  1. Meeting Notes
  2. Design Ideas
  3. Research Results
  4. Product Information
  5. Addresses of Suppliers
  6. Experimental Results
  7. Conversations and Contact Information

Grading Scale

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

Attendance

Team meeting times will vary depending on which sub-team(s) you are working on. Saturday mornings should be reserved for class meetings and/or ROV construction.

Withdrawal Policy

Students may withdraw without academic penalty from any course by the established deadline. This will result in a grade of 'W' for the course and will not count against the student's GPA. Students will be permitted a maximum of two withdrawals per course. Upon the 3rd attempt, the students WILL NOT be permitted to withdraw and will receive an earned grade for that course.