Sponsoring Department: Engineering: Interdisciplinary Studies (IDS)

Course Number: E201

Course Title: Ocean Engineering Seminar

Catalog Description
Lectures on new developments in ocean, arctic engineering. The optional third unit covers the analysis and design of arctic structures for ice structure interaction. The additional unit will require that students meet with the instructor one extra hour per week to work on an individual project. Topics covered: ice mechanics, determination of global and local forces, and other ice actions on structures. Term paper required. Sponsoring department: Engineering Interdisciplinary Studies.

Textbook(s) and/or Other Required Material: No

Prerequisite(s): Enrollment in Ocean Engineering Program or consent of instructor

Units: 2 or 3.

Course Objectives:
To provide exposure of the field of ocean engineering, arctic engineering and related subject areas to students at graduate level with intention to show the broad and interdisciplinary nature of this field, particularly recent or new developments.

Format: 15 weeks - 2 hours of lecture per week

Contents:
Speakers are to be arranged by the engineering faculty, coordinated by an instructor in charge with volunteered faculty hosts for seminars. Topics can fall into the context of: ocean processes, ocean systems, machines operating in the ocean, aspects of engineering, scientific, marketing, or economic issues of the above. Ocean can be taken as the physical environment of deep oceans, estuary, near-shore, arctic and possibly the meteorological ocean. Invited speakers will be hosted by a faculty member of the College to foster faculty and student interests in new development in research and engineering issues.

Requirements:
Attendance and class participation is expected of students in every seminar for 2-unit version. 3-unit version requires students to meet with the instructor one extra hour per week to work on an individual project or a group project with term paper submission.

Grading:
Course can be taken for grade for the first time. Repeated enrollment is allowed but seminar should be taken P/F.

Instructor:
Appointed by IDS