



EGR 264: Oceanographic Technology

This course is an overview of the use of various types of oceanographic instrumentation and equipment for use in scientific experiments and data collection. The course includes the fundamentals of electronic sensors and instrumentation, the use of various data collection and transmission schemes, and the use of computers and wireless communication for scientific experiments. The course also covers special challenges involved in working in the marine environment including specialized equipment and at sea operations. In addition, the course will cover the use of underwater vehicles including AUV's, ROV's, gliders and towbodies. Prerequisite: Intermediate Algebra Competency; or concurrent enrollment in MTH 152. Three lecture hours per week.

Course Student Learning Outcomes

Upon completion of this course, the student will be: 1. Familiar with the theories and operation of oceanographic instrumentation currently in use 2. Familiar with the logistical and other issues involved in oceanographic operations

Credits: 3

Program: Engineering