Winter 2006 Ocean-116 (Course #5090)

Oceanography Lab.

This 1-unit laboratory course is an introduction to the common laboratory and field practices in the geological and physicochemical aspects of oceanography.

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Office Hours: MTW: 6-6:30 pm or by appointment

Lab Text: Bernard W. Pipkin et al: Laboratory Exercises in Oceanography (W.H. Freeman: current edition). Any required laboratory handouts will be provided [Students will also need to bring their own pencils and calculators]

Schedule for the Laboratory Exercises and Tests (3:25 PM: 6:00 PM: CS-252)

Activity 1: Jan 9, 10, 11, 17, 18 and 23
Exercises (lab-book and/or online) and/or experiments on marine charts and navigation, bathymetry and physiography of the ocean floor, sea-floor spreading and plate tectonics, seismic depth-charts.

Lab-Test 1: Jan 24

Activity 2: Jan 25, 30, 31; Feb 1 and 6
Exercises (lab-book and/or online) on seawater temperature, salinity and related physical properties, solar radiation and heat balance, water masses and the Temperature-Salinity diagrams, ocean currents, waves and tides.

Lab-Test 2: Feb 7

Activity 3: Feb 8, 13 and 14
Measuring seawater salinity and related physical properties, velocities of shallow and deepwater waves, and exercises (lab-book and/or online) on the coastal processes and environment, primary and secondary productivity, global warming and related issues.

Lab-Test 3: Feb 15

Activity 4: Observational Cruise aboard RV VANTUNA (Jan 21: 12:30 PM - 4:30 PM)

The class and grading policies

- As for overall grading (A > 90% > B > 80% > C > 70% > F) in the course,
  - performance in best 3 of the 4 Activities will account for 75% of the class grade;
  - the remaining 25% of the grade will be for attendance, class performance, effective participation in and completion of the individual exercises and activities.
- Any antisocial and/or disruptive behavior, including cheating, and/or missing 5 or more of the laboratory sessions will automatically invite the letter grade “F”.