SIO 30 – SYLLABUS

Lecturers: P. Castillo, marine geology and chemical oceanography;
J. MacKinnon, physical oceanography;
N. Holland, marine biology.

Teaching Asst: Sara Shen & Brandon Stevens
Reference: Garrison, Oceanography (Custom Loose-leaf Version or Text), 8th (or 7th) Edition

Lectures: Tentative Schedule

Marine Geology (Castillo)
Oct. 03 F Origin of the earth and oceans
Oct. 06 M Introduction to Marine Geology
Oct. 08 W Plate tectonics - introduction
Oct. 10 F Plate tectonics - tests
Oct. 13 M Ocean margins & basins I
Oct. 15 W Ocean margins & basins II
Oct. 17 F Introduction to marine sediments
Oct. 20 M Marine sediments & ocean history

Biological Oceanography (Holland)
Oct. 22 W History of biological oceanography
Oct. 27 M Who's who in the sea? II
Oct. 29 W Life styles in the sea I
Oct. 31 F Life styles in the sea II
Nov. 03 M Life Styles in the Sea III
Nov. 05 W Economics of the sea
Nov. 07 F Humans and the Sea
Nov. 10 M MIDTERM EXAM

Physical Oceanography (MacKinnon)
Nov. 12 W Physical properties of the ocean: temperature, salinity and density
Nov. 14 F Forces acting on the ocean: Coriolis and more
Nov. 17 M Forces in action: coastal upwelling and ENSO
Nov. 19 W Waves and tides
Nov. 21F Global circulation patterns
Nov. 24 M Climate change and the ocean
Nov. 26 W TBA
Nov. 27-28 Thanksgiving Holiday

Marine Chemistry (Castillo)
Dec. 01 M Water & ocean chemistry I
Dec. 03 W Water & ocean chemistry II
Dec. 05 F Water & ocean chemistry III
Dec. 08 M Marine resources I
Dec. 10 W Marine resources II
Dec. 12 F Ocean & environment

Dec. 13-20 W (3:00 – 5:59 p.m.) FINAL EXAM