

SIO 30 – SYLLABUS

Lecturers: P. Castillo < pcastillo@ucsd.edu >, marine geology and marine chemistry
J. MacKinnon < jmackinnon@ucsd.edu >, physical oceanography
N. Holland < nholland@ucsd.edu >, marine biology
Teaching Assts: Julia Fiedler < jfiedler@ucsd.edu >, Adam Schlenger < aschleng@ucsd.edu >
Discussion sessions: A01 (1:00–1:50 p.m. M), A02 (3:00-3:50 p.m. M)
A03 (1:00-1:50 p.m. W), A04 (3:00-3:50 p.m. W)
Suggested reading: Garrison, Oceanography (Custom Loose-leaf Version or Text), 8th (or 7th) Edition

Lectures: Tentative Schedule

Marine Geology (Castillo)

Sept. 25 F Origin of the Earth and oceans
Sept. 28 M Introduction to Marine Geology
Sept. 30 W Plate Tectonics I
Oct. 02 F Plate tectonics II
Oct. 05 M Ocean basins & margins I
Oct. 07 W Ocean basins & margins II

Physical Oceanography (MacKinnon)

Oct. 09 F Physical properties of the ocean: temperature, salinity and density
Oct. 12 M Forces acting on the ocean: Coriolis and more
Oct. 14 W Forces in action: coastal upwelling and ENSO
Oct. 16 F Waves
Oct. 19 M Tides
Oct. 21 W Global circulation patterns
Oct. 23 F Climate change and the ocean

Oct. 26 M MIDTERM EXAM

Marine Chemistry (Castillo)

Oct. 28 W Marine sediments I
Oct. 30 F Marine sediments II
Nov. 02 M Water & ocean chemistry I
Nov. 04 W Water & ocean chemistry II
Nov. 06 F Water & ocean chemistry III
Nov. 09 M Marine resources
Nov. 11 W VETERANS DAY
Nov. 13 F Ocean & environment

Biological Oceanography (Holland)

Nov. 16 M History of biological oceanography
Nov. 18 W Who's who in the sea? I
Nov. 20 F Who's who in the sea? II
Nov. 23 M Life styles in the sea I
Nov. 25 W Life styles in the sea II
Nov. 27 F THANKSGIVING HOLIDAY
Nov. 30 M Life Styles in the Sea III
Dec. 02 W Economics of the sea
Dec. 04 F Humans and the Sea

Dec. 09 3:00-3:59 p.m. - FINAL EXAM