SIO 30 – SYLLABUS (Fall Q 2019)

Instructors:  
P. Castillo < pcastillo@ucsd.edu >, marine geology and marine chemistry  
N. Holland < nholland@ucsd.edu >, marine biology  
U. Send < usend@ucsd.edu >, physical oceanography

Teaching Assistants:

Discussion sessions MANDE B-104:  
A01 (3:00–3:50 p.m. M), A02 (4:00-4:50 p.m. M)  
A03 (3:00-3:50 p.m. W), A04 (4:00-4:50 p.m. W)

Suggested reading:  
Garrison & Ellis, Oceanography, 9th (or older) Edition

Lectures: MANDE B-210 (2:00 – 2:50 p.m.)

Marine Geology (Castillo)
Sept. 27 F  
Origin of the Earth and oceans
Sept. 30 M  
Introduction to Marine Geology
Oct.  2 W  
Plate Tectonics I
Oct.  4 F  
Plate tectonics II
Oct.  7 M  
Ocean basins & margins I
Oct.  9 W  
Ocean basins & margins II
Oct. 11 F  
Marine sediments I
Oct. 14 M  
Marine sediments II
Oct. 16 W  
Marine sediments III
Oct. 18 F  
Exam I

Marine Chemistry (Castillo) and Physical Oceanography (Send)
Oct. 21 M  
Water & ocean chemistry I (Castillo)
Oct. 23 W  
Water & ocean chemistry II (Castillo)
Oct. 25 F  
Water & ocean chemistry III (Castillo)
Oct. 28 M  
Marine resources and environment (Castillo)
Oct. 30 W  
Physical properties of the ocean: temperature, salinity and density (Send)
Nov.  1 F  
Forces acting on the ocean: Coriolis and more (Send)
Nov.  4 M  
Forces in action: coastal upwelling and ENSO (Send)
Nov.  6 W  
Waves (Send)
Nov.  8 F  
Tides (Send)
Nov. 11 M  
VETERANS DAY
Nov. 13 W  
Global circulation patterns (Send)
Nov. 15 F  
EXAM II

Biological Oceanography (Holland)
Nov. 18 M  
History of biological oceanography
Nov. 20 W  
Who's who in the sea? I
Nov. 22 F  
Who's who in the sea? II
Nov. 25 M  
Life styles in the sea I
Nov. 27 W  
Life styles in the sea II
Nov. 29 F  
THANKSGIVING
Dec.  02 M  
Life Styles in the Sea III
Dec.  04 W  
Economics of the sea
Dec.  06 F  
Humans and the Sea

Dec. 11 W  
FINAL EXAM - 3:00-5:59 p.m.