

SIO 30 – SYLLABUS (Fall Q 2019)

Instructors: P. Castillo < pcastillo@ucsd.edu >, marine geology and marine chemistry
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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.