

INTRODUCTION TO

BIOLOGICAL OCEANOGRAPHY



HATFIELD MARINE SCIENCE CENTER -- SUMMER SESSION 4

OC440 Lec/Lab, CRN#74560/74570

4 credits

JULY 24 - AUG 16, 2018, T/Th 1-5 pm

Instructor: Maria Kavanaugh, CEOAS
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Learn through experience! Participate in multiple field trips and research cruises across the fantastic array of living laboratories at the Oregon coast. We'll examine the ocean as an ecosystem, emphasizing the processes affecting the production and structure of oceanic communities. Starting with the physical and chemical characteristics, lectures and field activities examine the flow of energy and matter from primary producers up to higher trophic levels. Assessment is by weekly assignments and a course project.

Undergraduate Research Credit in Marine and Estuarine Research also available
(ENSC/OC 401 and 410)

Topics include

- The diversity of life in the oceans: from microbes to whales
- Factors regulating oceanic productivity including coastal upwelling
- Role of ocean biota in cycling carbon and other elements
- Harmful algal blooms, coral bleaching, ocean acidification, hypoxia
- Effects of global change on marine biota and fisheries
- Tools of the trade: experiments, instrumentation, data analysis



Oregon State University
Hatfield

For more info on summer courses: hmsc.oregonstate.edu/summer