OC 440 – Biological Oceanography
4 Credits (T/TH – 1-4:50 PM, Jul 22 – August 16)

Maria T. Kavanaugh, Ph.D. Assistant Professor, College of Earth, Ocean and Atmospheric Sciences, Oregon State University, Hatfield Marine Science Center, Newport, OR (541) 737-8009; mkavanau@ceoas.oregonstate.edu

Course Description
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, labs, and field activities examine the flow of energy and matter from primary producers up to higher trophic levels.

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
• Effects of global change on marine biota and fisheries
• Harmful algal blooms, coral bleaching, ocean acidification, hypoxia
• Tools of the trade: experiments, instrumentation, data analysis

In addition there are Undergraduate Research and Internship Credit in Marine and Estuarine Research (OC 401 - OC 410)

For more information: HMSC Academic Programs 541-867-0380 or hmscacademic@oregonstate.edu

http://hmsc.oregonstate.edu/summer