OC 332– Coastal Oceanography
3 Credits (T/TH – 8-11:20AM, June 24 – July 19)
Plus a 4-hr field trip (Sat, July 13)

Jack Barth, Ph.D.  Executive Director, Marine Studies Initiative
Professor, College of Earth, Ocean and Atmospheric Sciences, Oregon State University

Course Description
Physics, geology, biology and hydrology of coastal oceans. How coastal waters respond to forcing by heating, cooling, winds, tides, waves, rain, evaporation, river runoff and freezing. Geography and geology of coastlines: erosion and deposition processes, beach dynamics. Coastal equilibrium cells as sources and sinks of sediment. Rocky shore, beach, mudflat, estuarine, and coastal biotic communities; animal migrations. Law of the Sea rights and responsibilities of coastal states. Fisheries and mariculture in coastal seas. Pollution and coastal ocean resources. Using a matrix to define environmental problems; pathways that pollutants take through the coastal ecosystem.

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