Covers advanced examination of the ocean as an ecosystem with emphasis on the processes affecting the production and structure of oceanic communities. Examines flow of energy and matter from primary producers through primary consumers up to higher trophic levels and assess the impacts of physical and chemical oceanic environment on these flows. Examines microbial and benthic processes. Discusses current topics including, such as hypoxia, ocean acidification and harmful algal blooms. Learn more at classes.oregonstate.edu.

**Lecture:** TR 1:30 to 4:50 PM  
**Lab:** TR 5:00 to 5:50 PM  
**Mandatory Cruise:** Saturday, 7/30/22, 7:00 AM to 5:50 PM

**Prerequisites:** OC 201 and BI 221 or 221H

**Instructor:** Maria Kavanaugh

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