

SIO 270 – Pelagic Ecology Spring 2022

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Lectures: Tu/Th 11-12:20 pm 300 Vaughan Hall
Discussion section: Mon 12:15 –1:45 pm 300 Vaughan Hall
Course web site: <https://canvas.ucsd.edu/courses/36486/files>

<u>Date</u>	<u>Day</u>	<u>Lecturer</u>	<u>Module/Topic</u>
			I. Pelagic Biodiversity
29-Mar	Tu	Allen	Pelagic Biodiversity – viruses & bacteria
31-Mar	Th	Allen	Pelagic Biodiversity – unicellular eucaryotes
5-Apr	Tu	Petrik	Pelagic Biodiversity – metazoans I
7-Apr	Th	Petrik	Pelagic Biodiversity – metazoans II
			II. Spatial Patterns
12-Apr	Tu	Kahru	Primary Production and Remote Sensing
14-Apr	Th	Allen	Deep Chlorophyll Maximum Dynamics
19-Apr	Tu	Petrik	Secondary Production; Vertical Structure and Migrations
21-Apr	Th	Barton	Trait-based approaches
			III. Biogeochemical Cycles
26-Apr	Tu	Petrik	Biogeochemical Cycles I - bio pump by metazoans
28-Apr	Th	Allen	Biogeochemical Cycles II - microbial processes
3-May	Tu	Allen	Selective Feeding – Chemical Signaling
5-May	Th	Choy	Meso- and Bathypelagic Processes
			IV. Food Webs
10-May	Tu	Petrik	Trophodynamics
12-May	Th	Allen	Co-occurrence Networks and Food Web Stability
17-May	Tu	Petrik	Higher Predators - fish
19-May	Th	Baumann-Pickering	Higher Predators - marine mammals and birds
24-May	Tu	Petrik	Modeling
			V. Changing Pelagic Ecosystems
26-May	Th	Ohman	Interannual Perturbations, ENSO, and Multi-Decadal Change
31-May	Tu	Petrik	Climate Change
2-Jun	Th	Allen	Paleo Perspective