

SIO 275B Benthic Ecology. Lecture Schedule, Winter 2016, Tu/Th 9:30 - 11:50 am

**Readings TBD and including Chapters from Bertness et al eds, 2nd Edition
Marine Community Ecology and Conservation and selected readings**

Day	Date	Lecture Topics	Reading
Tu	5-Jan	History and Current Topics in Benthic Ecology (Leichter)	MCEC Ch 1
Th	7-Jan	Sampling Strategies and Experimental Design; NSF Proposal strategies (Leichter)	Krebs Ch 1, Hairston Ch 1, Oksanen 2001
Tu	12-Jan	Scale, Pattern and Macroecology (Leichter)	MCEC Ch 4, Krebs Ch 10
Th	14-Jan	Physical Environments and Ecomechanics and Disturbance (Leichter)	MCEC Ch 2, Denny and Gaylord 2010
Tu	19-Jan	Foundation Species, Behavior, Foraging (Leichter)	MCEC Ch 3
Th	21-Jan	Competition and Predation (Leichter)	MCEC Ch 5
Tu	26-Jan	Temperate hard substrates - rocky inter/sub tidal (Leichter)	MCEC Ch 9, 14
Th	28-Jan	Sedimentary systems and microbial cycling (Leichter)	MCEC Ch 10
Tu	2-Feb	Tropical to polar habitats (Leichter)	MCEC Ch 13
Th	4-Feb	Symbiosis and Positive Interactions (Levin)	Dubilier et al. 2008; Parkinson and Baums 2014
Tu	9-Feb	Diversity, Ecosystem Function and Services (Levin)	MCEC Ch 6, Ch. 18
Th	11-Feb	Metapopulations, Metacommunities, Connectivity and Oceanography (Levin)	Logue 2011; Cook et al. 2014; Le Corre et al. 2015
Tu	16-Feb	Ecotones... Habitat interactions (Levin) MIDTERM Assignment due	Kark_Van Resburg 2006 + TBA
Th	18-Feb	Stable Isotopes and Food Webs (Levin)	Boecklen et al. 2011, Ramos & González-Solís, 2012
Tu	23-Feb	Parasites in Benthic Systems (guest lecture Ryan Hechinger)	TBA
Th	25-Feb	Importance of Natural History (guest lecture Paul Dayton)	(Dayton and Sala 2001)
Tu	1-Mar	Invasive Species and Pollution (Levin)	Levin and Crooks 2012; Thomsen et al. 2014
Th	3-Mar	Benthos and Adaptation to Climate Change (Blue Carbon and EBM) (Levin)	MCEC Ch 19, 21
Tu	8-Mar	Fishing, Food Security and Benthos (Levin)	MCEC Ch 20
Th	10-Mar	Restoration and Conservation (Levin)	MCEC Ch 22, 23