**SIO 277  Deep Sea Biology  Fall 2015  Instructor: Lisa Levin**

9:30-10:50 Tues./Thursday  Ritter 229

Sept. 24 Introduction, History of Deep-Sea Biology
Sept. 29 Deep-Sea Environments, Technology and Tools
Oct. 1 Faunal composition, depth zonation
Oct. 6 Microbiology I (Doug Bartlett)
Oct. 8 Fisheries and seamount ecology (Tony Koslow)
Oct. 13 Meso pelagic and bathypelagic ecology (Amanda Netburn)
Oct. 15  Microbiology II (Logan Peoples)
Oct. 20 Benthic communities: size, abundance, trophic composition
Oct. 22  Species diversity (*Research Proposal Abstract Due*)
Oct. 27  (QUIZ) Reproduction, life histories and connectivity/genetics
Oct. 29  (*Challenger Forward Assignment Due*) Animal-sediment interactions
Nov. 3 Protozoa
Nov. 5 Hydrothermal vents
Nov. 7.  Student Cruise I  (7 AM – 10:00 PM) Arrive Mar Fac at 6 AM
Nov. 10 Methane seeps
Nov. 12 Benthic-pelagic coupling /Climate Change I
Nov. 14  Student Cruise II  (7 AM – 10:00 PM) Arrive Mar Fac at 6 AM
Nov. 17. OMZs, biogenic reefs (Coral/Sponge), Climate change II
Nov. 19  (*QUIZ*) Hadal ecology and exploration
Nov. 24 Human exploitation and conservation (*Deep-sea Futures Proposals DUE*)
Nov. 26 THANKSGIVING
Dec. 1 Advances in Deep-sea Physiology (Horst Felbeck)
Dec. 3 Whale Falls (Greg Rouse)
Dec. 10  8-11AM (*Deep-Sea Futures Symposium = Final Exam*)

Grading: Offered for a Letter Grade (default) or Satisfactory/Unsatisfactory (if not using the course to complete degree requirements)