SIO 277  Deep Sea Biology  Fall 2013  Instructor: Lisa Levin
2:00-3:20  Tues./Thursday  Vaughan 100  (Also lectures for SIO 286)

Sept. 26 Introduction, History of Deep-Sea Biology
Oct. 1 Deep-Sea Environments, Technology and Tools
Oct. 3 Faunal composition, depth zonation
Oct. 8 Benthic communities: size, abundance, trophic composition
Oct. 10. Species diversity
Oct. 15. Reproduction, life histories and population dynamics
Oct. 17 Animal-sediment interactions
Oct. 22 Protozoa  (*Research Proposal Abstract Due*)
Oct. 24  (QUIZ) Genetics and Physiology
Oct. 29 Hydrothermal Vent Ecology  (*Challenger Forward Assignment Due*)
Oct. 31 Vent physiology and biochemistry (Horst Felbeck)
Nov. 5 Meso pelagic and bathypelagic ecology (Tony Koslow)
Nov. 7. Fisheries and seamount ecology – Human impacts (Tony Koslow)
Nov. 12 Methane seeps
Nov. 14  *Oseax* and Whale Falls  (Sigrid Katz)
Nov. 16.  Student Cruise I  (7 AM – 10:00 PM)  Arrive Mar Fac at 6 AM
Nov. 19 Deep-sea microbiology (Doug Bartlett)
Nov 21 Benthic-pelagic coupling /Climate Change I
Nov. 23 Student Cruise II  (7 AM – 10 PM)  Arrive Mar Fac at 6 AM
Nov. 26  (QUIZ) OMZs, biogenic reefs (Coral/Sponge), Climate change II

  (*Deep-sea Futures proposals due*)
Nov. 28  HOLIDAY
Dec. 3  Hadal ecology and exploration
Dec. 5. Human exploitation and conservation
Dec. 12 – 3PM to 6PM  (*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)

*Note: If you are enrolled in SIO 286 (but not SIO 277) you must attend these lectures, take quizzes and participate in cruise but do not need to complete the written assignments or give a research presentation, as you will have other assignments in SIO 286*