

ESM 260 APPLIED MARINE ECOLOGY - Winter 2017

Lectures: Monday & Wednesday: 10:00 – 11:15; Bren Hall 1424

Instructor

Hunter S. Lenihan

Office and Office Hours

Bren 3428; Mondays; 11:15-12:15
(Lenihan@bren.ucsb.edu)

Textbook: Schmitt, R.J. & C.W. Osenberg (eds). 1996. Detecting Ecological Impacts: Concepts & Applications in Coastal Habitats. Academic Press.

Course Grade Points: (200 Total): Homework-Problem sets: 100
Term Paper (5-page Research Proposal): 100
NO EXAMS

RESEARCH PROPOSAL [5 PAGES, INCLUDES FIGURES]. DUE FRIDAY, 26 FEBRUARY

Lecture / Reading Assignment Schedule[#]

Week	Date	Lecture Topic	Reading
1	Jan 9	Introduction	Article 1; Textbook-Ch. 1
1	Jan 11	Ecological dynamics	Article 2; Textbook-Ch. 2
2	Jan 16	HOLIDAY	Textbook-3
2	Jan 18	Field impact assessments I	Textbook Ch. 4,5
3	Jan 23	Field impact assessments II	Textbook Ch. 6
3	Jan 25	Field impact assessments III	Textbook Ch. 7,8
4	Jan 30	Dispersal of impacts	Article 3,4; Textbook-Ch. 9
4	Feb 1	Management experiments	Article 5
5	Feb 6	Coral reef ecology I	Article 6
5	Feb 8	Coral reef ecology II	Article 7
6	Feb 13	Eco-technology (<i>Dr. Andrew Brooks</i>)	
6	Feb 15	Fisheries	Article 8
7	Feb 20	HOLIDAY	
7	Feb 22	Marine Reserves	Article 9
8	Feb 27	Community-based research	Article 10
8	Mar 1	Aquaculture	Article 11
9	Mar 6	FIELD TRIP	
9	Mar 8	Marine pollution	Article 12
10	Mar 13	Disease/Parasite ecology (<i>Dr. Kevin Lafferty</i>)	Article 13
10	Mar 15	Global climate change	Article 14

See **Gauchospace** for *ESM 260* articles.

Homework*

Homework 1: Identifying patterns in nature	Due 18 January
Homework 2: Hypothesis formulation	Due 25 January
Homework 3: Tests of hypotheses & management actions	Due 1 February
Homework 4: Identifying patterns for management	Due 15 February
Homework 5: Hypotheses & management plans	Due 22 February

*Students may team up in pairs to complete homework assignments. Submit homework as emails to using your name) and homework# as the file name.

Term Paper

Each student to discuss term paper (i.e., research proposal) topic with Professor during office hrs.