

ESM 260 APPLIED MARINE ECOLOGY - Winter 2018

Lectures: Tuesday & Thursday: 15:30 – 16:45; Bren Hall 1510

Instructor

Hunter S. Lenihan

Office and Office Hours

Bren 3428; Tuesday; 1400-1550
(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: (300 Total): Homework-Problem sets: **100**
Term Paper (5-page Research Proposal): **100**
Presentations of proposals **100**
NO EXAMS

RESEARCH PROPOSAL [5-6 PAGES]. DUE FRIDAY, 16 MARCH

Lecture / Reading Assignment Schedule[#]

Week	Date	Lecture Topic	Reading
1	Jan 16	Introduction	
1	Jan 18	Ecological dynamics	Textbook-Ch. 1,
2	Jan 23	Field impact assessments I	Textbook-Ch. 2, Article 1
2	Jan 25	Field impact assessments II	Textbook-Ch. 3, Article 2
3	Jan 30	Field impact assessments III	Textbook-Ch. 5, Article 3
3	Feb 1	Dispersal of impacts	Textbook-Ch. 6, Article 4
4	Feb 6	Management experiments	Textbook-Ch. 8, Article 5
4	Feb 8	Coral reef ecology I	Article 6
5	Feb 13	Coral reef ecology II	Article 7
5	Feb 15	Eco-technology (<i>Dr. Andrew Brooks</i>)	
6	Feb 20	Fisheries	Article 8
6	Feb 23	<i>Field Trip</i>	Article 9
7	Feb 27	Marine Reserves	Article 10
7	Mar 1	Marine Pollution	Article 11
8	Mar 6	Climate Change	Article 12
8	Mar 8	Disease/Parasite ecology (<i>Dr. Kevin Lafferty</i>)	Article 13
9	Mar 13	Presentations	
9	Mar 15	Presentations	

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

Homework*

Homework 1: Identifying patterns in nature Due 25 January
Homework 2: Hypothesis formulation Due 1 February
Homework 3: Tests of hypotheses & management actions Due 8 February

Term Paper

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

Presentations

Each student to give a 10 min. oral presentation describing grant proposal ideas