ESM 260 APPLIED MARINE ECOLOGY - *Winter 2019*

Lectures: Tuesday & Thursday: 12:30 – 13:45; Bren Hall 1424

Instructor

Hunter S. Lenihan

Office and Office Hours

Bren 3428; Tuesday; 1400-1550
(HLenihan@ucsb.edu)

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

Course Grade Points: (400 Total):		
	Homework-Problem sets:	**100**
	Term Paper (Research Proposal):	**200**
	Student presentations	**100**

RESEARCH PROPOSAL [6-7 PAGES]. DUE FRIDAY, 16 MARCH

Lecture / Reading Assignment Schedule#

Week	*Date*	*Lecture Topic*	*Reading*
1	Jan 8	Introduction	Article 1
1	Jan 10	Ecological dynamics	Textbook-Ch. 1
2	Jan 15	Field impact assessments I	Textbook-Ch. 2
2	Jan 17	Field impact assessments II	Textbook-Ch. 3, Article 2
3	Jan 22	Field impact assessments III	Textbook-Ch. 5, Article 3
3	Jan 24	Dispersal of impacts	Textbook-Ch. 6, Article 4
4	Jan 29	Management experiments I	Textbook-Ch. 8, Article 5
4	Jan 31	Management experiments II	Article 6
5	Feb 5	Coral reef ecology I	Article 7
5	Feb 7	Coral reef ecology II	Article 8
6	Feb 12	Eco-technology *(Dr. Andrew Brooks)*	
6	Feb 14	Fisheries (*Sean Fitzgerald*)	Article 9
7	Feb 19	Aquaculture	Article 10
7	Feb 21	Marine Pollution	Article 11
8	Feb 26	Disease/Parasite ecology *(Dr. Kevin Lafferty)*	Article 12
8	Feb 28	Climate Change	Article 13
9	Mar 5	Student Presentations	
9	Mar 7	Student Presentations	
10	Mar 11	Student Presentations	
10	Mar 15	Student Presentations	

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

Term Paper

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

Presentations

Each student to give a 12 min. oral presentation of grant proposal idea.