Syllabus: STPA 35 Society and the Sea

Dr. Sarah Gille
Lectures: Tuesday/Thursday 3:55-5:15, Center 203
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Course website: http://www-mae.ucsd.edu/∼sgille/stpa35
Reading:

- Textbook: *Oceanography: A View of the Earth*, by M. Grant Gross and Elizabeth Gross, Prentice Hall
- Supplemental reading: *The Perfect Storm* by Sebastian Junger.
- Additional articles to be distributed

Format: This course will focus on using scientific findings to examine policy questions. We'll use a case study approach, and will spend some of our class time in small groups discussing specific examples. For this reason, class attendance and participation are very important and will be part of your grade.

Grading:

- 25% attendance and participation (This is essential, since you'll be working in groups to address societal problems pertaining to the ocean.)
- 25% group reports and presentations
- 15% quiz 1
- 15% quiz 2
- 20% final exam

Schedule

- April 3: Introduction to the course; pre-survey; about the ocean (overview of Ch. 1-3), about our case studies.
- April 5: Group assignments. The coastal environment (Ch. 14). Agua Hedionda Lagoon, part 1
- April 10: Ocean currents (Ch. 8), Agua Hedionda Lagoon, part 2.
- April 12: guest lecturer Rachel Woodfield, Merkel & Associates, on Caulerpa in the Agua Hedionda Lagoon
- April 17: Waves, (Ch. 9) San Diego sewage, part 1.
- April 19: Tides (Ch. 10), San Diego sewage, part 2.
- April 24: Introduction to marine biology (Ch. 11), pre-exam questions
- April 26: quiz # 1 (currents and the San Diego coast: Ch. 8-10, 14; Agua Hedionda Lagoon; Sewage)

- May 1: Plankton (Ch. 12), Red Tide, part 1.
- May 3: Fisheries (The Perfect Storm), Overfishing, part 1
- May 8: Nekton (Ch. 12), Overfishing, part 2.
- May 10: guest lecturer: Prof. Peter Franks on Red Tide
- May 15: group presentations, Benthos (Ch. 13)
- May 17: quiz # 2 (Ch. 11-13, Fisheries, Red Tide)
- May 22: Introduction to global warming, the carbon cycle, and sea water (Ch. 4)
- May 24: Atmosphere (Ch. 6), Iron Fertilization, part 1
- May 29: Iron Fertilization, part 2; more atmosphere
- May 31: Ocean and climate (Ch. 7), climate, part 1
- June 5: guest lecturer, climate, part 2
- June 7: final presentations, summary (Ch. 15), review
- final exam (Ch. 4, 6-15, case studies)

A Note on Citation and University Level Writing:

Although this course won't involve a lot of writing, I still want to offer a few comments about citation. In written reports (as well as oral presentations) you must acknowledge your sources. The strictest guidelines gugest that if you draw more than three consecutive words verbatim from a source, then you should surround them with quotes and identify the source. Even if you change the words, if the ideas come from a web site or published document, then you should indicate what resource you've consulted.

Citations can be done in a variety of ways, and any of the standard forms (numbered footnotes, numbered endnotes, etc.) are acceptable for this course. Standard scientific citation lists author and year in brackets in the text. For example, in the text you might see [Gille, 2001] or [Smith and Jones, 1898]. A reference list at the end, alphabetized by author's last name, provides full publication information. For example:

References

Gille, S. T., "Syllabus: STPA 35 Society and the Sea", UCSD, Spring 2001.

Smith, A. B. and C. D. Jones, Fictional article name, *Journal of the Unknown*, vol. 1, pp. 1-30, 1898.