

# Wicked Marine Problems: Multidisciplinary Approaches to Coastal Climate Adaptation

**10 Week Course (OCEA273, 3 units)**  
**Fridays 12:30-4:00pm, Jan 8 - Mar 11, 2016**  
**Long Marine Lab, UC Santa Cruz, Room COH-118**

**Course Instructor:**  
**Juliano Coll, UC Santa Cruz**

## Speakers Include:

**Dr. Gary Griggs**

Director, Institute of  
Marine Sciences, UCSC

**Dr. Laura Good**

Education Manager,  
Center for Ocean  
Solutions

**Dr. Charles Colgan**

Director of Research and  
Editor in Chief, MIIS

**Sarah Newkirk**

Coastal Director, The  
Nature Conservancy

**Commander Paula Travis**

Program Officer, Naval  
Postgraduate School

In this course students will explore the skills and techniques relevant for carrying out a substantive original multidisciplinary research project with a focus on human adaptation to the coastal impacts of climate change. During the class, we will discuss coastal hazards, socioeconomic characteristics, and vulnerability of coastal communities to the impacts of climate change, as well as relevant adaptation alternatives.

The course will include an overview of climate concepts, a review of the latest assessment report from the International Government panel on climate change (IPCC, AR5), and the results of the United Nations Conference on Climate Change, scheduled for December 2015 in Paris. In groups, students will develop a basic assessment of climate change impacts, review adaptation alternatives for a chosen coastal region, and present their findings to the class.

This course involves hands-on, collaborative learning and a variety of guest speakers. Students will learn to locate and synthesize existing literature and relevant data, and effectively present their work. This is an ideal course for students who are interested in interdisciplinary research, climate change, coastal hazards and related issues.

**Course open to ocean-interested graduate students from our [MARINE partner campuses](#).  
For details on how to register contact Laura Good, [lhgood@stanford.edu](mailto:lhgood@stanford.edu) by Dec 15, 2015**

What is MARINE?

MARINE is the Monterey Area Research Institutions' Network for Education: A collaboration between the Center for Ocean Solutions and seven Monterey Bay area campuses aimed at enhancing graduate marine education by providing professional development opportunities in ocean leadership and real-world interdisciplinary problem solving.

For more information, contact your MARINE campus liaison or [MARINE@centerforoceansolutions.org](mailto:MARINE@centerforoceansolutions.org)

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