

Sample Syllabus - GLOBAL ENVIRONMENTAL SCIENCE

GES/OCN 100

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Goals: The primary goal of this seminar is to introduce new GES majors to the environmental science applications and research at UHM by visiting laboratories, field locations, and (research) facilities along with speaking to researchers in these fields. As all GES students have to complete a research thesis project as a degree requirement, this exposure to SOEST research will help assist students in formulating ideas about research possibilities. Also, the students will be required to learn how to create and present a short, digital infographic that describes an area of research that interests them.

Student Learning Objectives:

- 1) Students will be exposed to a range of SOEST research areas by attending guest researcher talks along with tours of research labs and facilities.
- 2) Students will learn about student research opportunities in SOEST.
- 3) Using an online tool, students (as individuals or in assigned groups) will collaborate to create a digital presentation infographic that communicates and summarizes a SOEST research topic of interest to the student.
- 4) Students will orally present their infographic summarizing their research topic in a class presentation and answer questions.

Institutional Learning Objectives:

1. Know - Breadth and Depth of Knowledge (a. General education)
2. Do - Intellectual and Practical Skills (e. Conduct research, and f. Communicate and report)

Grades: Grading is based on credit/no-credit. Attendance is **mandatory**. Please show your respect to the instructor, guest speakers, and other students and be on time. If you have a conflict or are ill and are unable to make class, please email me in advance if possible. **All absences must be made up to receive credit for the course. Every absence is made up by attending a one-hour seminar, writing a one-page summary about the seminar, and submitting to guidry@hawaii.edu.**

Class Materials: Bring an internet-enabled device to class as we will be doing a variety of exercises that require a networked smartphone, tablet, PC, etc. OCN 100 Library Guide: <http://guides.library.manoa.hawaii.edu/ocn100>

Homework: The only assignment will be a brief review and infographic presentation (2-3 minutes) of one interesting Environmental Science-related research activity.

The SOEST departments and institutes are listed below for the homework assignment:

Department of Oceanography <http://www.soest.hawaii.edu/oceanography/>

Department of Geology and Geophysics <http://www.soest.hawaii.edu/GG/index.html>

Department of Meteorology <http://www.soest.hawaii.edu/MET/index.php>

Department of Ocean and Resource Engineering <http://www.ore.hawaii.edu/>

Hawaii Institute of Marine Biology <http://www.hawaii.edu/HIMB/>

Hawaii Institute of Geophysics and Planetology <http://www.higp.hawaii.edu/>

Hawaii Natural Energy Institute <http://www.hnei.hawaii.edu/>

International Pacific Research Center <http://iprc.soest.hawaii.edu/>

Library participation: In order to satisfy student learning objectives 3 and 4, students will meet several times to complete library related tasks, learn how to create an infographic, and deliver a group oral presentation.

Library Guide: <http://guides.library.manoa.hawaii.edu/ocn100>

Google Slides Survey: <https://goo.gl/forms/yMMYi0ktHGesVJao2>

OCN 100, Spring 2019 Schedule – (subject to change as necessary)

Class Dates	Topic	Location
Jan 11	Introduction - Requirements/plan for semester	Hamilton Library YAP
Jan 18	Review of research	Hamilton Library YAP
Jan 25	Dr. Jeff Drazen - Deep Sea Biology and Ecology Website: http://www.deepseafishecology.com/ Reading: http://www.deepseafishecology.com/research.html Readings: Review the website and reading (above URLs) and have one question to ask for each.	MSB 6th floor
Feb 1	Grieg Steward & Craig Nelson - Microbiology Grieg Steward: http://www.soest.hawaii.edu/oceanography/faculty/steward/StewardLab/Projects.html Craig Nelson: https://sites.google.com/site/nelsoncraige2/ Readings: Read the project descriptions (above URLs) and have one question to ask for each.	CMORE Hale
Feb 8	Drs. Alison Nugent and Christina Karamperidou - Clouds and Climate Alison's Website: http://alisonnugent.com/ Christina's Website: http://www2.hawaii.edu/~ckaramp/ Alison's Reading: https://qz.com/1034370 Christina's Reading: https://www.climate.gov/news-features/blogs/enso/butterflies-rounding-errors-and-chaos-climate-models	MSB 315
Feb 15	Drs. Brian Powell (BP), Glenn Carter (GC), and Phil Thompson (PT) BP - Pacific Islands Ocean Observation Systems (PacIOOS) GC - Hadal (Deep Ocean) Profiler (read about last item - Univ. of Hawaii) PT - Sea level center research (read about "Science of Sea Level Change")	MSB 315
Feb 22	Dr. Marek Kirs - Water Resources Research Center http://www2.hawaii.edu/~kirs/index.htm	MSB Lanai
Feb 25	Submit your infographic topic by email	
March 1	Intro to Presentations/Infographics (Jan Sung) - Submit your research topics of interest by Monday, Feb 25th	Hamilton Library YAP
March 8	Work on Infographics in class (Jan Sung) - start making your infographic	Hamilton Library YAP
March 15	Submit Draft Infographics - Turn in infographic (feedback will be returned prior to next class)	No Class

- Email draft infographic draft to jansung@hawaii.edu and guidry@hawaii.edu as PDF

March 22	Spring Break Holiday	
March 29	Workshop Session to Revise Infographic Based on Review Comments	Hamilton Library YAP
April 5	Workshop Session to Revise Infographic Based on Review Comments	Hamilton Lib 156
April 10 (Wed)	Submit final infographic to both jansung@hawaii.edu and guidry@hawaii.edu as a PDF	
April 12	Infographic Presentations	Hamilton Library YAP
April 19	Good Friday Holiday	
April 26	Class Wrap Up	Hamilton Library YAP