Sample Syllabus - GLOBAL ENVIRONMENTAL SCIENCE
GES/OCN 100

Instructors:
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Jan Sung, PhD Librarian and Dept. Chair, Science and Technology Reference
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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](http://guides.library.manoa.hawaii.edu/ocn100)

Google Slides Survey: [https://goo.gl/forms/yMMyi0kTHGesVJao2](https://goo.gl/forms/yMMyi0kTHGesVJao2)

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

<table>
<thead>
<tr>
<th>Class Dates</th>
<th>Topic</th>
<th>Location</th>
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<tbody>
<tr>
<td>Jan 11</td>
<td>Introduction - Requirements/plan for semester</td>
<td>Hamilton Library YAP</td>
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<tr>
<td>Jan 18</td>
<td>Review of research</td>
<td>Hamilton Library YAP</td>
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Readings: Review the website and reading (above URLs) and have one question to ask for each.

Feb 1 | Greg Steward & Craig Nelson - Microbiology | CMORE Hale

Grieg Steward: [http://www.soest.hawaii.edu/oceanography/faculty/steward/StewardLab/Projects.html](http://www.soest.hawaii.edu/oceanography/faculty/steward/StewardLab/Projects.html)

Craig Nelson: [https://sites.google.com/site/nelsoncraige2/](https://sites.google.com/site/nelsoncraige2/)

Readings: Read the project descriptions (above URLs) and have one question to ask for each.

Feb 8 | Drs. Alison Nugent and Christina Karamperidou - Clouds and Climate | MSB 315

Alison’s Website: [http://alisonnugent.com/](http://alisonnugent.com/)

Christina’s Website: [http://www2.hawaii.edu/~ckamp/](http://www2.hawaii.edu/~ckamp/)

Alison’s Reading: [https://qz.com/1034370](https://qz.com/1034370)


Feb 15 | Drs. Brian Powell (BP), Glenn Carter (GC), and Phil Thompson (PT) BP - [Pacific Islands Ocean Observation Systems (PacIOOS)](http://www.soest.hawaii.edu/oceanography/faculty/steward/StewardLab/Projects.html) GC - [Hadal (Deep Ocean) Profiler](http://www.deepseafishecology.com/research.html) (read about last item - Univ. of Hawaii) PT - [Sea level center research](http://www2.hawaii.edu/~kirs/index.htm) (read about “Science of Sea Level Change”) | MSB 315

Feb 22 | Dr. Marek Kirs - Water Resources Research Center | MSB Lanai

[http://www2.hawaii.edu/~kirs/index.htm](http://www2.hawaii.edu/~kirs/index.htm)

Feb 25 | Submit your infographic topic by email | |

March 1 | Intro to Presentations/Infographics (Jan Sung) | Hamilton Library YAP

- Submit your research topics of interest by Monday, Feb 25th

March 8 | Work on Infographics in class (Jan Sung) | Hamilton Library YAP

- Start making your infographic

March 15 | Submit Draft Infographics | No Class

- Turn in infographic (feedback will be returned prior to next class)
- Email draft infographic draft to jansung@hawaii.edu and guidry@hawaii.edu as PDF

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