Instructor: Roman P. de Jesus  
Office hours: ESS 104 Wed. 1-2pm –or– Challenger 123 by appt.

TA: Tasha Gownaris  
Office hours: ESS 104 Tu or Th

Course Materials
- see Blackboard for announcements and assignments

Course Description
This course introduces students to the scientific, social, and political aspects of important environmental issues such as population growth, habitat loss, biodiversity, energy production, air and water pollution, global climate change, ozone depletion, and waste management. A case study approach, where both the problem and solutions are examined, will be used to facilitate both presentation and discussion of the topics covered. Students will be expected to obtain a basic understanding of the complexity of these issues and the scientific and societal uncertainties and constraints that are important to their resolution.

Student Learning Outcomes
Upon completion of this course, students can expect the following
- **understand** the natural processes for sustained life on Earth.
- **identify** the effects of human activities on local, regional, and global environments.
- **distinguish** solutions to environmental problems and strategies for sustainability.
- **demonstrate** critical thinking skills by applying knowledge to address emerging environmental problems

Evaluation
Points earned by students will be used to assign grades (500 total):

- *Exams (4; lowest dropped)*: 150 (30%)
- *Assignments*: 150 (30%)
- *Quizzes (11; lowest dropped)*: 100 (20%)
- *In class activities*: 100 (20%)

**Exams:** Four midterm exams will be administered during the class period on the specified dates.
**Assignments:** Assignments will be distributed or posted at least one week before the due date. Consult Blackboard for details.
**Quizzes:** Total of 11 quizzes will be given during class (15-20 mins each) and will cover reading and previous class material.
**In class activities:** Each class will contain at least one assignment or activity. These can only be completed in class and cannot be made up.
**Student Responsibilities**
- Attend class and be intellectually present.
- Refrain from distracting other students (e.g. electronic devices unrelated to the course).
- Complete and submit assignments on time.
- Complete quizzes and exams in class.
- Abide by the Stony Brook Academic Integrity code.

**Instructor Responsibilities**
- Start and end class on time.
- Conduct class in a manner that is unbiased and respectful.
- Present relevant material to the course and course objectives.
- Notify any changes to the syllabus in a timely manner.
- Give and grade exams in a timely fashion.
- Be available during scheduled office hours.

**Lectures Notes**
Presentation slides will be posted on Blackboard following each class. The notes are designed to supplement the assigned reading material and are not intended to be used as a substitute for the readings.

**Make Up Exams and Late Assignments**
- Excused absences are granted with a doctor's note or verified official university events. I require at least 3 days prior notice for excused absences.
- Quizzes cannot be made up for unexcused absences. Alternative arrangements will be made for excused absences.
- Deadlines are considered to be firm. Late assignments will not be accepted.

**Stony Brook University Policies**
**Academic Integrity:** Each student must pursue his or her academic goals honestly and be personally accountable for all submitted work. Representing another person's work as your own is always wrong. Faculty are required to report any suspected instances of academic dishonesty to the Academic Judiciary. For more information on academic integrity, please see [http://www.stonybrook.edu/uaa/academicjudiciary/](http://www.stonybrook.edu/uaa/academicjudiciary/)

**American Disability Act:** If you have a physical, psychological, medical or learning disability that may impact your course work, please contact Disability Support Services ECC (Educational Communications Center) Building, Room 128, (631) 632-6748. They will determine with you what accommodations, if any, are necessary and appropriate. All information and documentation is confidential.

**Critical Incident Management:** Stony Brook University expects students to respect the rights, privileges, and property of other people. Faculty are required to report to the Office of Judicial Affairs any disruptive behavior that interrupts their ability to teach, compromises the safety of the learning environment, or inhibits students’ ability to learn.
# MAR 340 Tentative Schedule (1/26/14)

<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
<th>Reading</th>
<th>Due</th>
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| Jan 27 – 00 Jan 29 – 01 | Course Introduction
Environmental Science Introduction                      | --               | Ch 1-2       |
| Feb 03 – 02 Feb 05 – 03 | **Earth’s Environmental Systems**
Snow Day - No class
Earth as a system & Ecosystems                               | Ch 3 - 4         | Quiz 1 (online) |
| Feb 10 – 04 Feb 12 – 05 | Biodiversity & Bioinvasions
Forests, Parks, & Wilderness                                    | Ch 8 Ch 12       | Quiz 2       |
| Feb 17 – 06 Feb 19 – 07 | Wildlife, Fisheries, Endangered Species
Ecological Restoration                                         | Ch 13 Ch 9       | Quiz 3       |
| Feb 24 Feb 26 – 10 | **EXAM 1**
The Human Dimension
Human Population                                                  | --               |              |
| Mar 03 – 11 Mar 05 – 12 | Environmental Economics
Agriculture                                                        | Ch 7 Ch 11       | Quiz 4       |
| Mar 10 – 13 Mar 12 – 14 | Water Use
Urban Areas                                                       | Ch 18 Ch 22      | Quiz 5;      |
| Mar 17 Mar 19 | Spring Break – No Class                                              | --               |              |
| Mar 24 – 15 Mar 26 | Materials Management
**EXAM 2**                                                          | Ch 23 --         | Quiz 6       |
| Mar 31– 16 Apr 02 – 17 | **Energy: Sources and Use**
Energy Basics
Energy Audit Discussion                                           | Ch 14 See BB     | Audit        |
| Apr 07 – 18 Apr 09 – 19 | Fossil Fuels
Nuclear Energy                                                     | Ch 15 Ch 17      | Quiz 7       |
| Apr 14 – 20 Apr 16 | Alternative Energy
**EXAM 3**                                                          | Ch 16 --         | Quiz 8       |
| Apr 21 – 21 Apr 23 – 22 | **Chemicals and Pollution**
Biogeochemical Cycles
Environmental Health, Pollution & Toxicology                     | Ch 6 Ch 10       | Quiz 9       |
| Apr 28 – 23 Apr 30 – 24 | Water Pollution
Air Pollution                                                      | Ch 19 Ch 21      | Quiz 10      |
| May 05 – 25 May 07 – 26 | The Atmosphere & Climate Change
Our Environmental Future                                           | Ch 20 Ch 24      | Quiz 11;     |
| May 13 | **EXAM 4 : 8:30-11pm**                                               | --               |              |

**Note:**
- **Underlined** meetings led by Tasha
- Complete the assigned reading **before** each lecture.
- The order of topics might change during the semester, but exam dates will not.