SYLLABUS

Transforming the Global Environment
Fall 2014

Geography 450:102

INSTRUCTOR

Dr. Usha Eleswarapu
Contact information - ushae@rci.rutgers.edu
Office Hours (live online) – Thursday 8 – 9 pm
You can email anytime if you have questions.
TA: Kalpana Venkat, kalpanav@scarletmail.rutgers.edu

TEXTBOOKS:

Synopsis: Introduction to political, economic, cultural, technological, ecological and ethical aspects associated with environmental issues, including energy, population, deforestation, food production and chemical pollution.

LEARNING GOALS
1. Analyze the relationship that science and technology have to a contemporary social issue.
2. Understand and apply basic principles and concepts in the physical or biological sciences.
3. Identify and critically assess ethical and societal issues in science.

COURSE REQUIREMENTS:
THREE QUIZZES - Quizzes 1, 2 and 3 are each worth 10% of your grade (30% Total)
10 ASSIGNMENTS – Each worth 4% of your grade (40% Total)
6 DISCUSSIONS – Each worth 5% of your grade (30% Total)

GRADING:
A: 90-100%
B+: 85-89.99%
B: 80-84.99%
C+: 75-79.99%
C: 70-74.99%
D: 60-69.99%
F:<60%

Note: No rounding of scores.
CLASS POLICY

Extra credit: No extra credit.

Quizzes: Every effort must be made to take quizzes when scheduled. Quiz will be available for 24 hours on the scheduled date. Once you start the quiz, you will have 1 hour to complete it. DO NOT USE WIRELESS CONNECTION FOR QUizzes. You could get disconnected. Take the quiz early in the day so you can resolve any problems that you may encounter.

Assignments: Each assignment must be submitted on the day it is due. Assignments are due by midnight. No late submissions. Feel free to hand in assignments before the due date.

Discussions: Discussions should address the list of questions and have at least two substantive responses to your classmates. There will be staggered due dates for response to questions and participation. Discussions should be kept respectful and courteous and should stay on topic.

Academic Integrity: The Geography department fully endorses a no-tolerance cheating and plagiarism policy. If you are caught cheating, you may be failed and disciplinary action may be taken.

COURSE OUTLINE

<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
<th>Assignment</th>
</tr>
</thead>
<tbody>
<tr>
<td>9/2</td>
<td>Introduction (ES-Environmental Studies, TS-Taking Sides)</td>
<td>Slides_Intro</td>
</tr>
</tbody>
</table>

Unit 1: Preservation vs. Conservation

| 9/8   | Gifford Pinchot (ES) (Due Sept 12th)                                  | Selection 3       |
| 9/8   | Slides_1.1 and Slides_1.2                                            |                   |

Discussion 1: Issue 1.2 (TS) Begins Sept 7th and Ends Sept 20th

Unit 2: Fundamental Causes of Environmental Problems

| 9/15  | Slides_1.3 and Slides_1.4                                            |                   |
| 9/15  | Garrett Hardin (ES) (Due Sept 26th)                                  | Selection 7       |

Unit 3: Energy and Ecosystems

| 9/22  | Chancey Juday (ES) (Due Oct 10th)                                    | Selection 15      |
| 9/22  | Slides_1.5 and Slides_1.6                                            |                   |

Discussion 2: Issue 3.3 (TS) – Begins Sept 21st and Ends Oct 4th

Unit 4: Renewable and Nonrenewable Energy

| 9/29  | Slides_1.7                                                            |                   |

QUIZ 1 (Slides_1.1, 1.2,1.3,1.4,1.5,1.6,1.7) – Oct 8th

Unit 5: Forests, Wilderness, and Wildlife
Discussion 3: Issue 2.2 (TS) – Begins Oct 5th and Ends Oct 18th

Unit 6: Biodiversity
10/13 Slides_2.2 and Slides_2.3

Unit 7: Pollution
10/13 John Evelyn (ES) (Due Oct 17th) Selection 25
10/20 Linda Marsa (ES) (Due Oct 24th) Selection 26

Discussion 4: Issue 3.4 (TS) – Begins Oct 19th and Ends Nov 1st

Unit 8: Global Warming
10/27 IPCC (ES) (Due Oct 31st) Selection 28
10/27 Slides_2.4 and Slides_2.5

Unit 9: Food and Agriculture
11/3 Vandana Shiva, Caroline Lockart and Ruchi Shroff (Due Nov 7th) Selection 34
11/3 Slides_2.6 and Slides_2.7

Discussion 5: Issue 4.3 (TS) – Begins Nov 2nd and Ends Nov 15th

Unit 10: Political and Economic Issues
11/10 Robert D. Bullard (ES) (Due Nov 14th) Selection 38
11/17 Janet N. Abramowitz (ES) (Due Nov 21st) Selection 39

QUIZ 2 (Slides_2.1,2.2,2.3,2.4,2.5,2.6,2.7) Nov 17th

Discussion 6: Issue 4.1 (TS) – Begins Nov 16th and Ends Dec 6th

Unit 11: Population Issues
11/24 David Pimentel et al. (ES) (Due Dec 5th) Selection 42
11/24 Slides_3.1 and Slides_3.2
12/1 Slides_3.3 and Slides_3.4

Unit 12: Environmental Ethics and Public Policy
12/8 Slides_3.5

QUIZ 3 (Slides_3.1,3.2,3.3,3.4,3.5) – Dec 16th