Course Description

Analysis of the environment with emphasis on understanding relationships and interactions of physical, biological, technological, and political components using scientific methods of inquiry. The issues of food supply and safety, water quality, pollution control, biodiversity, environmental policy.

Student Learning Outcomes

- Explain the interactions among food and fiber production systems, human demands, and environmental quality.
- Discuss the many aspects of research, product development, environmental management, and scientific activity which occur in land grant colleges.
- Understand a holistic perspective for food, fiber, and environmental quality and analyze the issues involve agriculture, management of natural resources, and the environment.

Environmental Science: Towards a Sustainable Future 12th edition by Richard T. Wright and Dorothy F. Boorse, Prentice-Hall, Upper Saddle River, NJ, and The Environment and You, by Norm Christensen (supplement). Reading assignments are highlighted in the course outline. Readings must be completed before the start of class.
Course Components

<table>
<thead>
<tr>
<th>Criteria</th>
<th>Points</th>
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<tbody>
<tr>
<td>Two midterm exams (50 points/exam)</td>
<td>100</td>
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<tr>
<td>Final exam</td>
<td>60</td>
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<td>Quizzes</td>
<td>60</td>
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<tr>
<td>Assignment 1: Information evaluation</td>
<td>40</td>
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<td>Assignment 2: Shopping basket</td>
<td>40</td>
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<tr>
<td>Assignment 3: Recycle</td>
<td>20</td>
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<tr>
<td>Assignment 4: Testimony</td>
<td>20</td>
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<tr>
<td>Service learning: proposal, presentation and critique</td>
<td>60</td>
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<td>Total</td>
<td>400</td>
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A= 90%+; B= 80%+; C= 70%+ ; D=60%+; F= 59%

Assignments and quizzes

Students will be required to submit the assignments on time. Detailed instruction for each activity will be posted online or handed out in class. Please study the reading assignments before coming to classes. Your participation in classes is important. We will have pop quizzes. In case of emergency, let me know. However, make-up quiz is not guarantee.

Supplemental course material will be posted on Laulima (https://laulima.hawaii.edu/portal). Also, please check your UH webmail account (@hawaii.edu) frequently.

Topics

The is organized into three part:
Part I: Human population and food supply, Part II: Environmental quality and management and Part III: Global policy on environmental issues

Grade

Letter grade will be assigned based on student’s total points from Exams, quizzes, and all the assignments.

CLASSMATE CONTACT INFORMATION Just in case you have a question or you miss something in class, exchange contact information with two classmates.

1. Name: Phone #: Email:
2. Name: Phone #: Email:
Course Schedule (tentative and subject to change)

The additional reading assignments will be posted online or handed out. Please study before coming to classes.

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<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>Content</th>
<th>Chapter</th>
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| 1    | 1/12-16/2015 | Part I: Human population and food supply  
Introduction: subjects, grading, assignments  
Land grant University, Science and the Environment  
Does scientific “truth” guide our live today?  
Assignment 1: Information evaluation | 1       |
| 2    | 1/19-23/2015 | Basic needs of living things: cell, species, ecology  
Photosynthesis  
Assignment 1: Information evaluation due | 3       |
| 3    | 1/26-30/2015 | Food chains, community, human population, human consumption  
Assignment 2: What is that food stuff? Shopping basket | 4, 8    |
| 4    | 2/2-6/2015   | Population growth, economic development and human well-being  
Activity: Service learning | 8, 9    |
| 5    | 2/9-13/2015  | World food production and distribution  
The green revolution  
Assignment 2: Shopping basket evaluation due | 12      |
| 6    | 2/16-20/2015 | Protecting our food from pathogens and pests  
Midterm Exam I | 13      |
| 7    | 2/23-27/2015 | Part II: Environmental quality and management  
Soil and water: The foundation of land and life  
Hawaii land and water management: Ahupua’a | 10, 11  |
| 8    | 3/2-6/2015   | Forest, ecosystem and ecology,  
Why are cycles important?  
Assignment 3: Recycle plastics | 5       |
| 9    | 3/9-13/2015  | Environmental Hazard and human health  
Chemical pollution and prevention | 17, 22  |
| 10   | 3/16-20/2015 | Water pollution and prevention  
Solid waste management | 20, 21  |
| 11   | 3/30-4/3/2015| Air pollution  
Midterm Exam II | 19      |
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<tr>
<th>Week</th>
<th>Date</th>
<th>Content</th>
<th>Chapter</th>
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<tbody>
<tr>
<td>12</td>
<td>4/6-10/2015</td>
<td>Part III: Global policy on environmental issues</td>
<td>14, 15, 16</td>
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<td>Energy from fossil fuel</td>
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<td>Renewable energy</td>
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<tr>
<td>13</td>
<td>4/13-17/2015</td>
<td>Renewable energy, Climate Change</td>
<td>16, 18</td>
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<td>Assignment 3: Recycle plastics due</td>
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<tr>
<td>14</td>
<td>4/20-24/2015</td>
<td>Biodiversity endanger species and natural resources</td>
<td>6, 7</td>
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<td>Restoration of ecosystem</td>
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<td>15</td>
<td>4/27-5/1/2015</td>
<td>Urban development</td>
<td>23, 2</td>
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<td>Policy, regulation and law on environmental issues</td>
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<td>Assignment 4: Legislative testimony</td>
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<tr>
<td>16</td>
<td>5/4-6/2015</td>
<td>Policy, regulation and law on environmental issues</td>
<td>2</td>
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<td>Activity: Service learning presentation</td>
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<td>Assignment 4: Legislative testimony</td>
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**COLLEGE & CLASS POLICY**

**Student Responsibilities**

1. Adhere to the LCC Student conduct code.
2. Study reading materials, lecture notes available in Laulima or discussed in class.
3. Come to class on time. In-class quizzes may be given during the first five minutes of the class period; these quizzes cannot be made up.
4. Complete all writing assignments on time. Late submissions are accepted for up to a week after the due date with 10% penalty. Rewritten papers must be submitted by the dates shown below to receive full credit.
5. Take exams at the scheduled time and date.

**Schedule Change:** I may change the order or content of the lectures and/or labs if I feel that such changes will benefit the class. You will be informed in advance in case of such changes.

**Class Rules, Suggestions and Participation:** Your participation and cooperation is very important for maintaining the class environment that we can all enjoy. Please feel free to ask questions and or repeat myself. For some questions that may require individual attention, it may be best to utilize the scheduled meeting hours or arrange a meeting in my office. I am open to suggestions regarding pedagogical techniques for delivery of difficult concepts. Please refrain from behavior (s) that are distracting to the class or are inappropriate for a sound-learning environment. If you are struggling with personal issue and missing classes, LCC has many programs, such as Maka'ala, that can help. Please let me know.

**Nondiscrimination Policy:** I uphold the University of Hawaii’s nondiscrimination policy in my classes. Any discriminatory acts or language on the basis of race, religion, age, sex, national origin, ancestry, disabilities or sexual orientation will NOT be tolerated. In addition, my classroom and office are UH designated Safe Zones. The Safe Zone program is committed to creating and maintaining a positive social and academic environment for gay, lesbian, bisexual, and transgender students.
**Student with Disabilities Statement:** Students with documented disabilities who believe that they may need accommodations in this class are encouraged to contact the Coordinator of the KĀKOʻO ʻIKE (KI) program as soon as possible to ensure that such accommodations are implemented in a timely fashion. The KI office is located in L-208, across from the elevator in the library building or call for information at 455-0421.

**Student Assessment Notification:** With the goal of continuing to improve the quality of educational services offered to students, Leeward CC conducts assessments of student achievement of course, program, and institutional learning outcomes. Student work is used anonymously as the basis of these assessments, and the work you do in this course may be used in these assessment efforts.

**The MakaʻAla Program:** is a campus-wide effort that seeks to support students early in the semester when they first begin experiencing difficulty in a class. If I feel that you are having difficulty in my class within the first few weeks of the semester (e.g. missing class, missing assignments, or low test scores) I may refer you to the program. I will notify you about my intention to refer you to the program. Once referred, the Makaʻala Program will:

1. Send an email to your hawaii.edu account to let you know about my referral; and
2. Have a counselor follow up with you by phone or by email to find out what kinds of help you might need, to connect you with the necessary resources, and to help you devise a strategy for success. Makaʻala means “eyes that are awake,” and reminds us that it is the responsibility of everyone involved— instructors, support services AND students—to be alert, watchful and vigilant and to attend to students’ success with “wide-open eyes.”

**Regarding Plagiarism:** Doing your own work is absolutely essential. Cite the sources of any information, quotations or ideas that are not your own work.

**OTHER HELPS**

*If you are feeling lost or overwhelmed...*

1. **Speak up in class**
   You may not be the only person with the same concern, and we all benefit from working questions out together.

2. **Contact me**
   You are welcome to email me anytime, or better yet: visit me during my office hours. Many questions and issues can be resolved this way.

3. **Get to know the Reference Desk**
   Our library staff is eager to help guide your research and orient you to our library’s printed and online resources.

4. **Use the Writing Center**
   The Writing Center is a free and valuable resource for students. Writing Center consultants can help you with writing and reading assignments and with study skills including time management, organization, and note taking. You can visit the Writing Center on the 2nd floor of the Learning Commons or call 455-0409 to make an appointment.