Geography 101---- The Natural Environment

03
TR: 10:00 a.m. – 11:15 a.m. (CRN: 64035)

INSTRUCTOR: Toshi Ikagawa, Ph.D.
OFFICE: Na‘auao 116
OFFICE HOURS: TR: 12:00 p.m. – 1:30 p.m.
TELEPHONE: 236-9216; ikagawa@hawaii.edu
EFFECTIVE DATE: Spring 2012

WINDWARD COMMUNITY COLLEGE MISSION STATEMENT

Windward Community College offers innovative programs in the arts and sciences and opportunities to gain knowledge and understanding of Hawai‘i and its unique heritage. With a special commitment to support the access and educational needs of Native Hawaiians, we provide O‘ahu’s Ko‘olau region and beyond with liberal arts, career and lifelong learning in a supportive and challenging environment — inspiring students to excellence.

CATALOG DESCRIPTION

Survey of the natural environment; distribution and interrelationships of climates, vegetation, soil and land forms.

Activities Required at Scheduled Times Other Than Class Times

Taking exams at a testing center

STUDENT LEARNING OUTCOMES

At the completion of the course, the student should learn to:

1. Describe the components (inputs), processes (actions) and resulting spatial patterns (outputs) of the physical environment (atmosphere, hydrosphere, lithosphere and biosphere) as a system.

2. Apply the scientific method, and theories and concepts of geography to explain a physical environment.

3. Explain critically the interaction of humans and the physical environment.

UH E-MAIL

Occasionally, a rush message is disseminated via the UH e-mail. Please check your UH e-mail often. Useful information is available at the following:

Forwarding Your UH Mail to Another Email Account
REQUIREMENTS COURSE SATISFIES

**At WCC:** Meets AA degree physical science requirement of the Natural Science requirements; with GEOG 101L, meets science laboratory course requirement. Also fulfill marine related elective requirement of the Marine Option Program (MOP).

**At UHM:** Meets Natural Science general education requirements (DP); with GEOG 101L, meets science laboratory course requirement (DY).

RECOMMENDED BASIC SKILLS LEVEL

Ability to read and write at a college level; math at college level.

LEARNING RESOURCES

1. **Required Textbook:** *Geography 101 Book* (Online Textbook) by Dennis Nullet

   This textbook can be accessed at: [http://www2.hawaii.edu/~dennis/book/](http://www2.hawaii.edu/~dennis/book/)

   User ID: geog101
   Password: panda

2. **Required Work Book:** GEOG 101: The Natural Environment, Semester Work Book (Available at [WCC Bookstore](http://windward.hawaii.edu/facstaff/ikagawa-t/Forwarding%20your%20UH%20Mail.pdf)); also available on the [Laulima](http://windward.hawaii.edu/facstaff/ikagawa-t/Forwarding%20your%20UH%20Mail.pdf) Resources page

COURSE TASKS

**Dear Geography Students:**

Welcome to the Geography 101 course, The Natural Environment. This class examines the Earth’s Natural Environment. The structure and processes of major environments will be discussed.

**Assignments:**

It is assumed that you read and understand all the assigned part of the textbook *before* each class period (see the class schedule attached). During and after each class you will complete a *Work Book exercise* (or equivalent) which will be counted toward your final grade. There may also be non-prescheduled pop-quizzes and/or assignments in any classes, which will be counted toward your final grade.

**Attendance/participation:**

*Attendance* is mandatory, and presence/absence will be evaluated by roll call (signup sheet) and *participation* is evaluated by class participation and work book exercises (or equivalent). It is assumed that you know and understand all the materials covered in all lectures (part of which may not be covered in the textbook).
Also, any changes in the content/material/schedule/procedure related to the class, announced during any class period will stand, even if you are not there. It is your responsibility to obtain such information from your classmate or any other sources, if you miss any lectures.

**ASSESSMENT TASKS AND GRADING**

**Student Evaluation** (Also refer to the [Grading Flowchart](#) below):

1. You must complete the **Pre Survey** during the first two weeks of the semester (no points, but mandatory). Go to a Testing Center and open the Tasks, Tests and Surveys page from [Laulima](#). Open **101-Pre-Survey** (30 questions) and answer the questions (The Proctor at the Testing Center will put in the Password for you).

   **Requirement 1**: You must complete (1) Pre-survey. If you do not complete this initial task, you will not be allowed to participate in this class thereafter.

2. There will be three **Exams** (40 points each) and **Attendance/Participation** (30 points) for the evaluation (Total 150 points). Reviews for Exams are available as Reviews for **Multiple Choice Exams** in the Resources on [Laulima](#) (Printable version). This requirement is used to determine your **final letter grade**, if you meet all requirements.

   **Requirement 2**: You must achieve **60%** or better of the total of exams and attendance/participation to pass the course.

3. There will be a mandatory **Capstone Quiz** near the end of the semester (extra points according to your achievement). It covers everything covered in the class. Review for the Capstone Quiz is available in the Resources page on [Laulima](#) (GEOG 101 Key Concepts and Terms). Understand (not just memorize their definitions) the concepts and terms listed. Take this requirement seriously.

   **Requirement 3**: You must achieve **70%** or better for the quiz to pass the course.

4. If you fail to meet one or both of the above two requirements, there will be a **Makeup Exam** (makeup for the entire course, NOT for a missed exam). Makeup Exam covers materials for the **three previous exams** (This is NOT a mere makeup for the Capstone quiz).

   **Requirement 4**: To pass the course, you must achieve **80%** or better.

5. **Participation** will be used to evaluate each student’s achievement of course objectives listed above. Because the **Work Book exercises** are record of class participation and will be done in class, students missing class regularly (i.e. more than **10%** of classes), thus not completing the exercises (Filling the missed exercises in a later date will NOT be considered as an acceptable participation), cannot be assessed for these objectives and therefore will not be able to pass the course.

   **Requirement 5**: No more than **10%** absences from classes

**Please mark your calendar now.**
<table>
<thead>
<tr>
<th>Tasks</th>
<th>Material Covered</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre-Survey</td>
<td>Multiple choice questions about the natural environment</td>
<td>1&lt;sup&gt;st&lt;/sup&gt; — 2&lt;sup&gt;nd&lt;/sup&gt; weeks on Laulima</td>
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<tr>
<td>Exam 1</td>
<td>Multiple choice questions for Textbook: Chapters 1–4</td>
<td>5&lt;sup&gt;th&lt;/sup&gt; week on Laulima</td>
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<tr>
<td>Exam 2</td>
<td>Multiple choice questions for Textbook: Chapters 5–8</td>
<td>9&lt;sup&gt;th&lt;/sup&gt; week on Laulima</td>
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<tr>
<td>Exam 3</td>
<td>Multiple choice questions for Textbook: Chapters 9–12</td>
<td>13&lt;sup&gt;th&lt;/sup&gt; week on Laulima</td>
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<tr>
<td>Capstone Quiz*</td>
<td>Multiple choice questions from Lectures (<em>Key Concepts &amp; Terms</em>)</td>
<td>15&lt;sup&gt;th&lt;/sup&gt; — 16&lt;sup&gt;th&lt;/sup&gt; week on Laulima</td>
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<tr>
<td>Makeup Exam</td>
<td>Multiple choice questions for Textbook: Chapters 1–12</td>
<td>16&lt;sup&gt;th&lt;/sup&gt; — 17&lt;sup&gt;th&lt;/sup&gt; weeks on Laulima</td>
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<tr>
<td>Work Book Exercise</td>
<td>Questions and exercises designed for the lecture</td>
<td>Due at the end of each class</td>
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**NOTE:** Exams cover both lectures and the textbook. It is mandatory to attend all the lectures. Each exam includes multiple-choice questions, including true/false questions. When you study, it is strongly recommended to check ideas and concepts using the textbook. (1) **Key concepts and terms** and (2) **review questions** for multiple choice questions are available in the **Resources** page on Laulima.

**How to access Laulima**

1. Go to the Laulima entry page at: https://laulima.hawaii.edu/portal
2. Log in using your UH Banner ID and password.
3. Select the class from the “My Workspace” bar near the top and click.
4. On the left side, there is the table of contents (Home, Syllabus, Exams, Resources, etc.). Click to access.

**NOTE:** The exams/survey/quiz can be only accessible at The Testing Center (TTC) during the designated period. The **proctor** at TTC will enter password for you. You can take each exam ONLY once.

**Academic dishonesty:** (SERIOUS WARNING!!)

Academic dishonesty such as cheating and plagiarism that may occur in this class will be severely punished. It most likely will result in immediate dismissal from the class. In other words, “DON’T DO IT” even if you have noble reasons to do so. It is NOT worth a try it in this class.

**Grading uses the standard scale:**

1. A: 90.0-100.0%, B: 80.0-89.9%; C: 70.0-79.9%, D: 60.0-69.9%, F: 0-59.9%.
2. For Cr/NC options, Incomplete ("I" grade), and "W" grade, see the WCC College Catalog.
3. There is no "N" grade in this class.

**NOTE:**
1. There is NO extra credit work.
2. There are NO make-ups for missed exams.

**GEOG 101 Grading Flowchart**

Grading involves the following:
1. Pre-Survey
2. Exams 1, 2 & 3 (plus Attendance/Participation points)
3. Capstone Quiz
4. Attendance/Participation
5. Makeup Exam
COURSE CONTENT

The Natural Environment (GEOG 101) Schedule

Subjects (Reading assignment of Textbook)

**WEEK 1**
INTRODUCTION
1. Introduction (Preface), Scientific method, systems approach
2. Organizing concepts, Geographic grid system (Chapter 1: Maps)
3. Maps and map projections, map scales

**WEEK 2**
PART 1: ATMOSPHERE
5. Seasons, analemma, composition of atmosphere, profiles of atmosphere

**WEEK 3**

**WEEK 4**
7. Pressure and winds (Chapter 4: Wind): Pressure gradient, high/low pressures & winds, land/sea breezes, Coriolis
8. Global circulation, real winds, ocean currents, monsoon

**WEEK 5**
PART 2: HYDROSPHERE
9. Moisture and precipitation (Chapter 5: Clouds): Atmospheric moisture, phase change, humidity
10. Ground level condensation

**WEEK 6**
11. Clouds and storms (Chapter 6: Weather): Clouds
12. Orographic rainfall, adiabatic process, convectional rift, precipitation types
13. Air masses & mid-latitude cyclones, thunderstorms, tornadoes, hurricanes vs mis-latitude cyclone

**WEEK 7**
15. Climate PPS, water resources

**WEEK 8**
PART 3: BIOSPHERE
16. Biogeography and ecosystems (Chapter 8: Life): Ecosystems & food chain
17. Vegetation zones, terrestrial biomes
18. Soils and vegetation: soils, laterization
19. White sand and blue pine
20. Stranger in the paradise

**WEEK 9**
**PART 4: LITHOSPHERE**
21. Plate tectonics (Chapter 9: Earth): Geologic time, Interior of the Earth
22. Plate tectonics

**WEEK 10**
23. Minerals and rocks (Chapter 10: Mountains): Rock cycle
24. Tectonic processes, faulting & folding

**WEEK 11**
25. Building/decreasing processes (Chapter 11: Valleys), volcanism, shield volcano, weathering, karst landscape

**WEEK 12**
27. Fluvial landscapes (Chapter 12: Erosion)
28. Wind, sand dunes

**WEEK 13—15 (To be announced)**

**WEEK 16**
29. Summary

**WEEK 17**
30. Final’s Week

NOTE: Schedule/subjects may change without prior notice.

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**Disabilities Accommodation Statement**

If you have a physical, sensory, health, cognitive, or mental health disability that could limit your ability to fully participate in this class, you are encouraged to contact the Disability Specialist Counselor to discuss reasonable accommodations that will help you succeed in this class. Ann Lemke can be reached at 235-7448, lemke@hawaii.edu, or you may stop by Hale ‘Akoakoa 213 for more information.

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**Additional Information**

**Legal assumptions:**

It is hereby assumed that you will strictly follow all and any reasonable procedures/ethics, etc. that are enforced in this academic institution. Refer to the Student Conduct Code (http://www.hawaii.edu/apis/ep/e7/e7208.pdf) for the details.

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Last revised: December 20, 2011