# Geography 101---- The Natural Environment

**03**

TR: 9:45am – 11:00am (CRN: 6089)
TR: 1:30am – 2:45pm (CRN: 60367)
T: 5:30pm – 8:15pm (CRN: 60368)

**INSTRUCTOR:** Toshi Ikagawa, Ph.D.
**OFFICE:** Na’auao 116
**OFFICE HOURS:** MTWR: 11:30 a.m. – 1:00 p.m.
**TELEPHONE:** 236-9216; ikagawa@hawaii.edu
**EFFECTIVE DATE:** Fall 2010

## WINDWARD COMMUNITY COLLEGE MISSION STATEMENT

Windward Community College is committed to excellence in the liberal arts and career development; we support and challenge individuals to develop skills, fulfill their potential, enrich their lives, and become contributing, culturally aware members of our community.

## 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

None

## 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:
### 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

### LEARNING RESOURCES

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

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

- User ID: geog101
- Password: panda

**Required Work Book:** GEOG 101: The Natural Environment, Semester Work Book

### 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 *workbook 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:**

1. There will be three **Exams** (40 points each) and **Attendance/Participation** (30 points) for the evaluation (Total 150 points).

   **Requirement 1:** You must achieve **60%** or better of the total of exams and attendance/participation to pass the course.

2. There will be a mandatory **Capstone Survey** near the end of the semester (extra points according to your achievement).

   **Requirement 2:** You must achieve **70%** or better for the survey to pass the course.

3. If you fail to meet one or both of the above two requirements, there will be a **Makeup Exam** during the Final’s Week.

   **Requirement 3:** To pass the course, you must achieve **80%** or better.

4. **Participation** (via learning logs) will be used to evaluate each student’s achievement of course objectives listed above. Because the learning logs are record of class participation and will be done in class, students missing class regularly (i.e. more than **10%** of classes), thus missing learning logs, cannot be assessed for these objectives and therefore will **not** be able to pass the course.

   **Requirement 4:** 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>1st — 2nd weeks on Laulima</td>
</tr>
<tr>
<td>Exam 1</td>
<td>Multiple choice questions for Textbook: Chapters 1–4</td>
<td>5th week on Laulima</td>
</tr>
<tr>
<td>Exam 2</td>
<td>Multiple choice questions for Textbook: Chapters 5–8</td>
<td>9th week on Laulima</td>
</tr>
<tr>
<td>Exam 3</td>
<td>Multiple choice questions for Textbook: Chapters 9–12</td>
<td>13th week on Laulima</td>
</tr>
<tr>
<td>Capstone Quiz</td>
<td>Multiple choice questions from Lectures (Key Concepts &amp; Terms)</td>
<td>15th — 16th week on Laulima</td>
</tr>
<tr>
<td>Makeup Exam</td>
<td>Multiple choice questions for Textbook: Chapters 1--12</td>
<td>16th — 17th 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 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, Tests & Quizzes, 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:**

- A: 90.0-100.0%, B: 80.0-89.9%; C: 70.0-79.9%, D: 60.0-69.9%, F: 0-59.9%.

For Cr/NC options, Incomplete (“I” grade), and “W” grade, see the WCC College Catalog.

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

**START:**

- **Pre-survey Took?**
  - Yes: **Capstone Quiz**
    - ≥ 70.0% ?
      - Yes: **Exams 1, 2 & 3** (plus Attn/Par. pts) ≥ 60.0% ?
        - Yes: **Attendance/Participation** Absences ≤ 10% ?
          - Yes: Congratulations! Passing Grade
          - No: **Super Massive Black Hole** Fail the Class
        - No: **Make up Exam** (for minimal pass) ≥ 80.0% ?
          - Yes: Congratulations! Passing Grade
          - No: **Super Massive Black Hole** Fail the Class
  - No: **Capstone Quiz** 50.0-69.9% ?
    - Yes: **Exams 1, 2 & 3** (plus Attn/Par. pts) ≥ 60.0% ?
      - Yes: **Attendance/Participation** Absences ≤ 10% ?
        - Yes: Congratulations! Passing Grade
        - No: **Super Massive Black Hole** Fail the Class
      - No: **Make up Exam** (for minimal pass) ≥ 80.0% ?
        - Yes: Congratulations! Passing Grade
        - No: **Super Massive Black Hole** Fail the Class
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 rifting, precipitation types
13. Air masses & mid-latitude cyclones, thunderstorms, tornadoes, hurricanes vs mis-lat 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.

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.

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.