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 full fill 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/%7Edennis/book/

   User ID: geog101
   Password: Available on Laulima

2. Required Work Book: GEOG 101: The Natural Environment, Semester Work Book (Available at WCC Bookstore); also available on the Laulima 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). Note that “attend a class” means come on time and stay until dismissed.

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. **Requirement 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).

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

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

4. If you fail to meet one or both of the above two requirements (only if the results of the Capstone Exam is 50.0-69.9%), 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 Exam).

5. **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), or not participating in a class, 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.

6. **Requirement 5**: No more than 10% absences from classes and participate in
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 Exam*</td>
<td>Multiple choice questions from Lectures (Key Concepts &amp; Terms) *Bases on the understanding of the lectures</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>
</tr>
<tr>
<td>Work Book Exercise</td>
<td>Questions and exercises designed for the lecture</td>
<td>Due at the end of each class</td>
</tr>
</tbody>
</table>

**NOTE 1:** 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.

**NOTE 2:** Exact open and due dates of each exam/quiz are available on **Tasks, Tests & Surveys** page on Laulima. Exams, etc. are due at 3 p.m. of the due date, not at the time of a testing center closes.

**NOTE 3:** Exams and quizzes cover both lectures and the textbook. It is mandatory to read all the reading materials. Each exam/quiz 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.

**NOTE 4:** No personal items, including electronic device (such as a cell phone and iPad), are allowed during the proctored assignments.

**NOTE 5:** No reference materials, including other Laulima pages of the class, are allowed when you take proctored exams, etc.

How to access Laulima
1. Go to the Laulima entry page at: [https://laulima.hawaii.edu/portal](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 Exam
4. Attendance/Participation
5. Makeup Exam
The Natural Environment (GEOG 101) Schedule

Subjects (Reading assignment of Textbook & Lecture notes)

NOTE: Textbook readings are ahead of Lecture notes

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WEEK 1 (Textbook Preface & Ch 1, lecture notes #01 & 02) Pre-survey

1. Introduction (Preface), Scientific method, systems approach
2. Organizing concepts, Geographic grid system (Chapter 1: Maps)

WEEK 2 (Textbook Ch 2 and Lecture notes #03)

3. Video: NOVA: Lost at Sea
4. Maps and map projections, map scales

WEEK 3 (Textbook Ch 3 and Lecture notes #04 & 05)

PART 1: ATMOSPHERE
5. GIS/GPS

WEEK 4 (Textbook Ch 4 and Lecture notes #06 & 07)

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Exams 1, 2 & 3 (plus Attn/Par. pts) ≥ 60.0% ?

Yes

Make up Exam (for minimal pass) ≥ 80.0% ?

No

Attendence/Participation
Absences ≤ 10% ?; Did all workbook Exercises?

Yes

Congratulations! Passing Grade

No

Super Massive Black Hole Fail the Class
7. Solar radiation, seasons, analemma
8. Composition of atmosphere, profiles of atmosphere

WEEK 5 (Textbook Ch 5 and Lecture notes #08 & 09) Exam #1

10. Energy balance (radiation balance), land-ocean contrast

WEEK 6 (Textbook Ch 6 and Lecture notes #10)

11. Video: NOVA: Dimming the Sun
12. Pressure and winds (Chapter 4: Wind): Pressure gradient, high/low pressures & winds, land/sea breezes, Coriolis

WEEK 7 (Textbook Ch 7 and Lecture notes #11 & 12)

13. Global circulation, real winds, ocean currents, monsoon

PART 2: HYDROSHERE
14. Moisture and precipitation (Chapter 5: Clouds): Atmospheric moisture, phase change, humidity

WEEK 8 (Textbook Ch 8 and Lecture notes #13)

15. Ground level condensation
16. Video: The Storm of the Century

WEEK 9 (Textbook Ch 9 and Lecture notes #14 & 15) Exam #2

17. Clouds and storms (Chapter 6: Weather): Cloud classification
18. Cloud formation processes, orographic rainfall, adiabatic process, convectional rifting, precipitation types

WEEK 10 (Textbook Ch 10 and Lecture notes #16 & 17)

19. Air masses & mid-latitude cyclones, thunderstorms, tornadoes, hurricanes vs mid-latitude cyclone
20. Climate (Chapter 7: Water): Climate classification, Hadley cell & tropical rainforest, Subtropical Highs & dry climate

WEEK 11 (Textbook Ch 11 and Lecture notes #18)

PART 3: LITHOSPHERE
21. Plate tectonics (Chapter 9: Earth): Geologic time, Interior of the Earth, Plate tectonics
22. Video: Nature’s Fury

WEEK 12 (Textbook Ch 12 and Lecture notes #19 & 20)

23. Minerals and rocks (Chapter 10: Mountains): Rock cycle
24. Tectonic processes, faulting & folding, earthquakes, tsunami, volcanism, shield volcano

**WEEK 13** (Lecture notes #21 &22) **Exam #3**

25. Gradational processes (Chapter 11: Valleys), weathering, karst landscape, mass wasting
26. Fluvial landscapes (Chapter 12: Erosion), erosional processes, fluvial, glacier, coastal and wind erosions

**WEEK 14** (Lecture notes #23)

**PART 4: BIOSPHERE**

27. Biogeography and ecosystems (Chapter 8: Life): Ecosystems & food chain
28. Video: The Queen of Trees

**WEEK 15—16** (Lecture notes #24) **Capstone Exam**

29. Summary: Exponential Age
30. Preparation for the Capstone Exam

**WEEK 16—17** **Makeup exam, if necessary**

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](http://www.hawaii.edu/apis/ep/e7/e7208.pdf)) for the details.

**NOTE 1**: No personal items, including electronic device (such as a cell phone and iPad), and eCigarette are allowed during the class period.

Last revised: December 13, 2013