

GEOGRAPHY 2200

Introductory Physical Geography

Dr. Peter Waylen: prwaylen@ufl.edu

Where: NEB 0202 and online

When: Tuesday period 4 (10:40 – 11:30), Thursday periods 4 and 5 (10:40-12.35)

Office Hours: Turlington 3117.

Tuesday 2-4 p.m.

Wednesday 1-3 p.m.

Thursday 1-3 p.m.

INTRODUCTION:

This course explores some of the basic elements of the physical world in which climates, meteorology, and landforms are considered in terms of their natural occurrences, distribution, interrelationships and relevance to humans.

The class meets the General Education requirements of a Physical Science.

EVALUATION AND GRADES:

a) Two (2) tests each worth 15% of final grade.

#1 Tuesday, February 2nd

#2 Tuesday, March 23rd

Tests will consist of multiple-choice questions.

b) Two (2) examinations each worth 35% of final grade:

Mid-term, Thursday, February 25th

Final, Friday, April 30th, 10:00 -12.00

These examinations will each consist of regular multiple-choice questions and multiple-choice questions directed to maps and diagrams from the course materials. *All tests/examinations are completed in the lecture room in lecture times, **except for the final which is 10:00-12:00***

Examples of both types of questions are located at <http://users.clas.ufl.edu/prwaylen/GEO2200Admin/>

The two examinations will evaluate your knowledge of each of the two halves of the course, **separately**. The **second examination** will therefore only evaluate material presented in the **second half of the course**.

Dates to remember:

February 2nd Test #1

February 25th Mid-term

March 23rd Test #2

April 30th Final 10:00-12:30

GRADING SCHEME:

A	= 90 and above
A-	= 85-89.9
B+	= 80-84.9
B	= 75-79.9
B-	= 70-74.9
C+	= 65-69.9
C	= 60-64.9
C-	= 55-59.9
D+	= 50-54.9
D	= 45-49.9
D-	= 40-44.9
E	< 40

Note: Under University regulations a “C-“ will not be a qualifying grade for major, minor, Gen Ed, Gordon Rule or College Basic Distribution credit.

Your grades will be available through my web site.
<http://users.clas.ufl.edu/prwaylen/GEO2200Admin/>

Marks will be continuously updated and tabulated. This will also provide information concerning your performance in the remaining tests required to attain various grade levels. It is your responsibility to know how well you are doing in the class.

COURSE TEXT:

There is no required textbook although “**Exploring Physical Geography**”, by Reynolds, Rohli, Johnson, Waylen and Francek, published by McGraw-Hill is recommended and can be purchased in the Book Store.

STUDY GUIDE:

A package of relevant course materials (tables, diagrams, maps) which you can purchase from **TARGET COPY** has been put together. Its use is **strongly recommended**. You can survive without it, but you will have to copy down all the materials during the lecture periods. This package also serves as your **STUDY GUIDE**. If I have taken the time to place the figures, diagrams and tables in this text then it is an indication that I want you to understand it.

Both the **TEXT** and **STUDY GUIDE** contain listings of the major topics that you should have mastered at the end of each section in order that you might evaluate your own state of knowledge continuously.

You can purchase either a “hard copy” or “electronic copy” of the **STUDY GUIDE**.

COURSE WEBSITE:

I will regularly post all past grades, a current running total and estimates of required future performance in what remains of the course to attain various letter grades on:

<http://users.clas.ufl.edu/prwaylen/GEO2200Admin/>

I am very happy to talk with any students about topics that are of particular interest.

I will also be sending, via e-mail, links to current news stories relating to materials taught in class (storms, freezes, wild fires, earthquakes, landslides etc.) as and when they occur during the class.

Important:

To be successful you will need a level of maturity and self-discipline. Some points:

- There is no text to follow verbatim, so **COME TO CLASS**
- **DON'T PROCRASTINATE**, manage your time wisely and review the lecture materials regularly. If you have doubts or need information clarified come to office hours.
- **DON'T SKIP** the "Before you leave this section" pages in either the **TEXT** or the **STUDY GUIDE**. Use these as a genuine self-evaluation tool. If you can't answer these questions without reference to the notes or lectures, then you don't understand that material.
- **DON'T** deceive yourself. There are about 200 points like this throughout the class. All examination questions are based on these points.

STUDENT SUPPORT SERVICES:

Special Accommodations

Students requesting disability-related academic accommodations must first register with the Disability Resource Center. <http://www.dso.ufl.edu/drc/>. The Center will provide documentation to the student who must then provide this documentation to the Instructor when requesting accommodation.

ACADEMIC HONESTY:

You are all bound by the student academic honor code.

We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honesty and integrity.

"On my honor, I have neither given nor received unauthorized aid in doing this assignment."

The first time a student is caught cheating they will get zero on the test. (In a multiple choice test you would probably score 20% simply by guessing!). On the second offense the student will be reported to the appropriate student body.

EXCUSED ABSENCES AND EXTRA CREDIT:

In the interest of fairness to **all** students in the class, there will be **NO EXTRA CREDIT**. However, I appreciate that unexpected events occur in all of our lives. If such events (illness, personal problems, etc.) befall you, I will give you the choice of either taking a

make-up exam or skipping the exam, upon production of **official documentation** of your case. If you chose to skip the exam/test, your grade will be based purely upon your performance in those forms of evaluation that you did take.

QUESTIONS EXPLORED:

Numbers in parentheses indicate relevant sections in the **TEXT**. Reading the text alone is not a surrogate for attending lectures, but it will enhance your understanding of lecture materials and is intended as the basis for in-class questions and discussion guided by the students.

Part 1:

How is energy transferred?

(02.00; 02.02A, C, D)

What controls the quantity and type of energy that the Earth receives?

(02.03B, C; 02.05; 02.06; 02.07)

What is temperature?

(02.03B, C)

What is the electromagnetic radiation spectrum?

(02.06 C)

What is the solar constant?

(02.07)

What is the Zenith Angle and why should we care?

(02.08B)

Why are some places hot and others cold?

(02.08A)

Why are some times of the year warmer than others?

(02.09; 02.08C; 02.10)

What makes our atmosphere distinct from space?

(02.01A, C, 03.02 A, B, C)

What laws govern the way in which the gases in our atmosphere behave?

(03.01)

Where does the Sun's energy go to in the Earth system?

(02.11; 02.12; 02.13; 02.03; 02.02B; 02.04; 02.14A)

What is the Greenhouse Effect and how does it relate to potential global warming?

(02.14B)

How does energy leave the Earth's system?

(02.15)

What is the geographic balance between energy gained and lost across the Earth?

(02.16)

How are imbalances in energy budgets corrected by the Earth's system?

(03.03)

What are the global distributions of atmospheric pressures and surface winds?

(03.05A; 03.06; 03.07A; 03.08B, 03.09; 03.10; 03.11; 03.12)

What are cyclones and anticyclones?

(03.07C; 03.08A; 03.05)

Why do oceans and land heat up and cool down at different rates?

(02.17)

What are the patterns of dominant global wind and ocean currents?

(06.01; 06.02; 03.14)

What causes rain and snow?

(04.01; 04.04)

Can we explain the global patterns of precipitation?

(04.11)

Part 2:

What factors control the shape of the land?

(09.00; 09.03; 09.08; 09.09, 10.16)

How is the Earth divided internally?

(10.01)

How is energy transferred within the Earth?

(10.09)

What causes crustal extension?

(10.05B; 10.06)

What landscapes develop in zones of extension?

(10.06, 10.15)

What happens when the Earth's crust is forced together?

(10.05B; 10.07)

What are the typical landscapes that develop in these regions?

(10.05A; 10.07; 10.15)

What are transform faults?

(10.08, 10.13 bottom)

Where are all the world's volcanoes?

(10.04B)

Where are earthquakes centered?

(10.04A)

What are "hot spots"?

(10.11; 10.12)

How does the Pacific Northwest illustrate how all these forces interact?

(10.08B)

How does the global hydrologic cycle operate?

(08.01; 08.02; 16.3)

How are inputs and outputs to the continental hydrologic system linked?

(08.01; 08.03)

What governs the rate of infiltration?

How is streamflow (runoff) generated?

(13.01 A, B, C; 13.12)

What is mass movement (mass wasting)?

(12.00; 12.01; 12.02; 12.04; 12.08; 12.10; 12.11)

Why do hillslopes move at some times and not at others?

(12.09)

How does running water shape our landscape?

How is the solution of limestone accomplished?

What is Karst?

(08.08; 08.09; 12.02B; 12.06, 17.11; 7.10)

What are aquifers and why are they important?

(08.06; 08.08; 08.09; 12.07)

What causes clastic particles in water to move?

(13.03B; 13.09A)

How do rivers convey earth materials to the ocean?

(13.00; 13.02A, B)

What is a velocity profile and why is it important?

(13.02C)

What are the sources of energy on coasts?

(15.01, 15.07A, 15.11B)

What causes tides?

(15.02)

How do waves exert energy on beaches?

(15.3; 15.04C)