

Physical Geology GEOL 1313/ CRN 14189

Instructor: Philip Goodell Office Hours: Tues/Thur 4-5 pm, 6:20-6:45

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Meets 5 – 6:20 pm Tues,Thurs., Geological Sciences 123

Course Information

Required Text:

Exploring Geology, Reynolds and others McGraw Hill Available with sections of a historical text at the UTEP Bookstore

What I expect you to get out of this class.

- 1) Learning to observe and ask questions. This class will teach you to look at the world around you and ask questions about why things look like they do.
- 2) Understanding the forces and history that shape our landscape.
- 3) Concepts and vocabulary. A big part of any introductory science is vocabulary. We need to have the same meanings for the words we use so that we can communicate. There are also several important concepts that are of concern to all of us as citizens and scientists.
- 4) Thinking like a scientist. You should begin to think like a scientist. Scientists observe, question, and analyze.
- 5) Learning about El Paso. El Paso is an incredible place to learn about Geology. I will include examples wherever possible.
- 6) Enjoyment. This should be a class where you learn a lot and also have a good time. Participation is a key to enjoyment.
- 7) The tools necessary to make intelligent decisions about your future with respect to the planet on which you live.

Computer and Internet use outside of class are required for this class. You need to have your free UTEP email account activated for this course and you need to check it regularly. If you don't have one, go to <http://getmail.utep.edu> now to activate yours. We will be experimenting with internet activities this semester so the syllabus will certainly change as the class evolves.

Process:

Before each class:

- * Read the assigned materials
- * Identify concepts that are central to understanding the topics to be discussed
- * Prepare a list of questions from the reading for which you need further clarification

During each class:

- * Turn off the sound on your cell phone when you enter the classroom and leave it off.
- * Take careful notes.
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Grading :

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|------------------------------|--------------|
| questions, quizzes, etc..... | 25% |
| 1 hr Exams (3) | 25% each 75% |
| Final exam (1) | 25%. 25% |

125%

(the lowest score from one of the above categories will be dropped)

Syllabus

Class Organization

| Date | Topic | Reading |
|--|--|----------------|
| Aug 25, 27 | The Nature of Geology | Chapter 1 |
| Sept. 1,3 | Investigating Geologic Questions | Chapter 2 |
| Sept. 7 | Labor Day, no class | |
| Sept. 8,10, 15 | Plate Tectonics | Chapter 3 |
| Sept. 17, 22 | Earth Materials | Chapter 4 |
| Sept. 24, 29 | Igneous rocks | Chapters 5 & 6 |
| Oct 1 | Exam 1 | Chapters 1-6 |
| Oct 6 | Sedimentary environments | Chapter 7 |
| Oct. 8 | Sedimentary environments | Chapter 7 |
| Oct.13, 15 | Deformation and Metamorphism | Chapter 8 |
| Oct. 20, | Geologic Time | Chapter 9 |
| | | |
| Oct. 22 | Sea Floor and Continental Margins | Chapter 10 |
| Oct. 27, | Mountains, Earthquakes | Chapters 11,12 |
| Oct. 29 | Exam 2 | Chapters 6-12 |
| Course Drop Deadline Oct 30 | | |
| Nov. 3 | Shorelines, Glaciers, Sea Level change | Chapter 14 |
| Nov. 5, 10 | Weathering Soils and Unstable Slopes | Chapter 15 |
| Nov. 12, | Rivers and Streams | Chapter 16 |
| Nov. 17 | Water Resources | Chapter 17 |
| Nov 19 | Energy and Mineral resources | Chapter 18 |
| Nov. 24 | Planetary Geology | Chapter 19 |
| Nov. 27 Thanksgiving Holiday No Classes | | |
| Dec 1 | Summary and review | |
| Dec. 3 | Exam 3 | Chapters 14-19 |
| Dec. 10 | 5PM – 7:45 PM FINAL EXAM | |

COURSE POLICIES

POLICY ON CLASS PARTICIPATION: You are expected to come to class prepared to discuss the assigned topic. You should have a good understanding of the reading and any pertinent questions you would like to discuss.

POLICY ON MAKE-UP EXAMINATIONS: **NO** make-up exams will be given for reasons other than illness (doctor's note required), absence with the instructor's prior approval, or when a student is on official University business (documentation required). Make-up exams will be scheduled on Fridays at 5pm.

POLICY ON ACADEMIC HONESTY: Academic Dishonesty will not be tolerated. All university guidelines will be strictly followed. Please read these guidelines carefully. If you have any questions regarding the university policy please contact the Dean of Students.

Exams:

There will be 3 one hour exams and one final exam. These will test your understanding of scientific concepts discussed in class. Exams are not cumulative. The final exam will be cumulative.