
ELMHURST COLLEGE
GEO 102-01

Earth's Landforms

**GEO 102-01 – Earth's Landforms – (1.0)
Fall 2009**

Class meeting: MWF 11:45-12:50 PM (DH 304) Lab: M 1:00-3:20 (DH 303)

Professors: Dr. Rich Schultz
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or by Appointment

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INSTRUCTIONAL MATERIALS & RESOURCES:

Required Materials:

▪ **EARTH INFO PHYS GEO&CDROM&VIDEO&NOTBK&ATLAS**

ISBN-10: 0-13-500571-X; ISBN-13: 978-0-13-500571-2

Published by Prentice Hall; © 2008; Published: Aug 7, 2007

Format: Kit/Package/ShrinkWrap;

Components Included in this Bundle:

- **Geoscience Animation Library CD-ROM, 4th Edition**
By Prentice Hall
 - **Earth: An Introduction to Physical Geology, 9th Edition**
By Edward J. Tarbuck, Frederick K Lutgens, Dennis Tasa
 - **Goode's Atlas**
By Rand McNally
 - **Student Lecture Notebook, 9th Edition By Edward J. Tarbuck**
- *Lab Manual for GEO 102* (4th Edition), By R. B. Schultz and J. Bock; (Since this is a customized lab manual, you will only be able to purchase it from the instructor, and not any other location, including online).

Both texts are required.

*It is recommended, although not required, to purchase a jump drive. These are available at almost any Best Buy, Walmart, Target, or similar store. A minimum of 2 Gb is best.

*Students will be issued a CD of the lab manual, and other software.

GENERAL COURSE DESCRIPTION: In a broad sense, this course is designed with two principal objectives in mind: 1) To provide students with a fundamental understanding of the earth's physical structure and surface topography, and 2) To facilitate the understanding of how humans interact with the earth's physical environment and how the earth influences humans and their activities. These two broad objectives will be accomplished through a combination of lectures, labs, videos, and Internet assignments. Two additional important objectives of this course are to fulfill the college's general education requirements for the **Natural World** category and to familiarize students with the discipline of geography.

COURSE LEARNING OBJECTIVES:

After successfully completing this course, a student should be able to:

- a. Develop a fundamental understanding of the processes responsible for landform formation, materials which form earth's landscapes, and the distribution on earth of these processes, materials, and landscapes.
- b. Have a general understanding of the natural landform regions of the U.S. and abroad
- c. Develop applied lab skills using various maps and physical specimens.
- d. Have a basic understanding of environmental issues in a relationship to how humans are affected.
- e. Have a sound comprehension of the various dimensions of human-earth interactions.
- f. Understand and develop an appreciation for the environment.

*Many of these objectives are fulfilled in an active lab exercise format to facilitate learning. This course fulfills the students' requirement within the **Natural World** General Education category. In addition to these learning objectives for this course, the learning objectives for general education curriculum courses also apply. These include the following:

1. Explain and apply the scientific method.
2. Collect, analyze and classify information.
3. Develop hypotheses, construct models, and evaluate contending theories.
4. Use appropriate forms of math reasoning to analyze scientific problems.
5. Recognize the limits of scientific understanding.
6. Explain and use core concepts such as matter and energy, causality, scale, and proportion, dynamic equilibrium, change, and evolution.
7. Place scientific knowledge in its historical context and recognize ethical, social, economic, and political dimensions of science.

ACADEMIC INTEGRITY: The very nature of higher education requires that students adhere to accepted standards of academic integrity. Therefore, Elmhurst College has adopted a Code of Academic Conduct and a Statement of Student academic Integrity. These may be found in the College catalog. Among the violations of academic integrity listed and defined are: cheating, plagiarism, falsification and fabrication, abuse of academic materials, complicity in academic dishonesty, falsification of records and official documents, personal misrepresentation and proxy, and bribes, favors, and threats. It is the student's responsibility to be aware of behaviors that constitute academic dishonesty.

METHOD OF INSTRUCTION: This is a **discussion-based** course. Audio-visual materials such as PowerPoint™ presentations, animations, and/or videotapes will supplement classroom discussions. Laboratory exercises (including some online) will emphasize practical hands-on experience and learning proper techniques for identifying minerals and rocks, interpreting topographic maps, landforms, and earthquake data. Internet exercises will provide practical applications and hands-on learning experiences. A culmination of the course will be a simulation of the practical aspects of petroleum exploration.

COURSE PRACTICES REQUIRED:

1. Students are expected to read all assigned material and/or handouts BEFORE coming to class. Students will be reporting on the content (this means very few "lectures").
2. A late penalty will be assessed for homework turned in past the due date for **ANY** reason, including absences due to illness. Once students have received their graded assignments back, one can no longer submit that assignment for credit.
3. Students are expected to take all exams during the scheduled times. It is the student's responsibility to notify the instructor PRIOR TO MISSING AN EXAM. ARRANGEMENTS MUST BE MADE WITH YOUR INSTRUCTOR TO MAKE UP AN EXAM. The exam must be made up within 1 week. **Makeup exams are significantly different than the regularly scheduled exams in terms of format.**
4. Exams and homework assignments in this course are largely based on lecture and lab material presented in class. Attendance is mandatory; students must realize that it is very difficult, and sometimes impossible to make up labs that are missed. Preparation for laboratory exams requires hands-on practice in the laboratory. Most labs cannot be made up.
5. In the event of absences, students are responsible for any classroom material, or information regarding schedule changes that were covered during class. Be sure to contact a fellow student or your instructor to find out what you missed during your absence. Students are responsible for keeping track of and obtaining any handouts or assignments that they missed during their absence.
6. Students are expected to participate *equally* in all lab work if assignment is part of a group effort.
7. Students are NOT allowed to use or borrow laboratory materials from the laboratory. (POSITIVELY **NO** EXCEPTIONS)
8. Under NO circumstance are grades or issues related to grades addressed via e-mail. If you have any questions about grades, DO NOT E-MAIL! You must visit me during my office hours or make an appointment to talk about grades *in person*.

Overarching Goals as a Gateway to Liberal Learning:

1. Instill a sense of lifelong learning
2. Promote effective communication skills
3. Learn to celebrate diversity in all of its forms

EVALUATION METHODS: Your course grade will be based upon a numerical points system for these categories: **THESE ARE APPROXIMATE - MAY CHANGE!**

- 1) **Lecture Exams** (100 points X 5 = 500 points), unit exams: **INCLUDING A COMPREHENSIVE FINAL EXAM**
- 2) **Concept Quizzes** (24 X 5 = 120 points)
- 3) **Identification Quizzes (for rocks and minerals)** (Minerals = 27 pts., Rocks=35 points)
- 4) **Lab Assignments** (35 X 10 = 350 points), laboratory assignments and homework
- 5) **Class participation/group work** (68 pts.)
for a total of approximately 1100 possible points.

Class Participation and Preparation:

Students will be assessed by the instructor on their level of participation and preparation for class. Included in this evaluation will be how students participate in the numerous class discussions, ask pertinent questions, attendance, tardiness, and attentiveness and personal conduct in the classroom. This is a discussion-based course and is designed for group exchange. Your input and participation is important for both you and your fellow students - don't let them or yourself down. A student who does not actively participate in classroom activities and discussions can expect an average grade of a **"C" at best**.

Dates of Exams: **APPROXIMATE DATES - THESE MAY CHANGE!**

Exam I: Monday, Oct. 5

Exam II: Friday, Oct. 23

Exam III: Monday, Nov. 9 (Lecture time)

Exam IV: Wednesday, Dec. 2

Comprehensive Final Exam at College scheduled time: **Friday, Dec. 18 at 10:30 AM**

Letter grades for individual assignments are meaningless - only the total number of points earned count toward your final tally for the course grade. Final letter grades will be based upon a straight scale:

- **89.5-100%=A;**
- **79.5-89.4%=B;**
- **69.5-79.4%=C;**
- **59.5-69.4%=D;**
- **<59.5%=F**

You must earn at least 59.5% in order to pass the course. Lecture exams will consist of an in-class exam worth 100 points comprised of matching, fill-in-the-blank, short answer, labeling of diagrams, and essay questions. Lab quizzes will emphasize specimen identification and map interpretation. Make up exams may **ONLY** be taken with the prior permission of your instructor, and usually no later than 1 week after the original exam date.

HOMEWORK ASSIGNMENTS:

Because a science course requires you to learn a great deal of new vocabulary, your homework will consist primarily of reading the associated chapters in the textbook and learning from class discussions. It is to your advantage to read the chapters as we discuss them in class not waiting until the exam to read all the covered chapters. Occasionally, lab assignments not completed during class time will be assigned as homework.

OTHER COURSE INFORMATION:

Elmhurst College will make reasonable accommodations for persons with documented disabilities. If you have a disability, which may have some impact on your work in this course, please contact Ms. Maureen Connolly, (630) 617-3753. Elmhurst College does not discriminate on the basis of race, color, creed, religion, national origin, disability, age, sex, sexual orientation, or marital status in admission to and participation in its education program, College activities and services, or employment practices. The College does not tolerate sexual harassment or sexual assault by or of its students or employees.

Additional Information:

The following are a few key points to remember as part of this class:

1. Anything that is turned in for grading must be legible and your **OWN** work, without exception. Neatness counts! If the instructor cannot read it, it is counted as wrong!
2. Calculators can be used for the minimal calculations that can be performed but you must show equations and/or your work. Full credit will not be given unless the work is present in the submission. Remember also that most calculations have units attached.
3. All work to be turned in, although often accomplished through group effort and/or collaborative learning, must be on an individual basis. Everyone must turn in the assignment for an individual grade.
4. Do not bring food into the classroom/lab. The facility does not allow foodstuffs or tobacco products in the building. Appropriate drinks are acceptable.
5. The health and safety concerns of students using the science laboratories/classrooms at Elmhurst College are a major concern of the administration, faculty, and staff of the College. The Geography lab is one of the safer laboratory environments on the campus as seldom is

dangerous equipment or hazardous materials used in conjunction with classroom activities. Nonetheless, please be aware that concerns are present and good common sense and safe procedures are to be followed without exception. Report any spills or accidents to the instructor immediately. Anyone violating the health and safety procedures will be asked to leave the classroom.

6. Under NO circumstance are grades (or issues related to grades) addressed via e-mail because of privacy restrictions. If you have any questions about grades, DO NOT E-MAIL! You must visit me during my office hours or make an appointment to talk about grades *in person*.

A detailed schedule of dates, course lecture topics, associated textbook chapters, videos, lab assignments, and lecture notes are posted on the Internet at:

<http://bb.elmhurst.edu>

Tentative Course Schedule/Calendar:

As of 8/31/09

<u>Week</u>	<u>Session</u>	<u>Date</u>	<u>Topic</u>	<u>Assignment or Lab Activity</u>	<u>Text Reading Assignment and Lab Manual Chapter for NEXT class period</u> (<i>Earth</i> is text; SB=Schultz & Bock lab manual)	<u>Online Video Assignment for NEXT class period</u> (ER= <i>Earth Revealed</i> Series)
1	1	Monday, Aug. 31	<ul style="list-style-type: none"> Introduction, Syllabus, Lecture 1: Earth System Science Why Study Earth? What are Earth Systems? Learning Styles Assessment 		<ul style="list-style-type: none"> Read <i>Earth</i>, Ch. 1 for Wed.; Review Lecture 1 and Read Lecture 2 for Wed. 	<p><i>Note: Online <u>Earth Revealed</u> videos are to be viewed outside of class <u>before</u> class meeting</i></p> <p>ER #1</p>
1	2	Monday, Aug. 31 (Lab)	<ul style="list-style-type: none"> Finish Lecture 1 Lab 1 : <i>Living Rock</i> video Lab 2: Overview of Earth (Lab Manual) Work on Lab 2 in class 	<i>Living Rock</i> video	<ul style="list-style-type: none"> SB Lab 1 (due at end of lab) SB Lab 2 (due Friday) 	
1	3	Wednesday, Sept. 2	<ul style="list-style-type: none"> Organize into Study Teams, Lecture 2: Geographic Literacy/GIS Technology, Maps and Places; Work on Labs 2 and 3 (both due Friday); Concept Quiz1 		<ul style="list-style-type: none"> SB Labs 2 and 3 (both due Friday, Sept. 4) 	
1	4	Friday, Sept. 4	<ul style="list-style-type: none"> Work on Labs 2 and 3 in class (due at end of class) 		<ul style="list-style-type: none"> SB Labs 2 and 3 due at end of class; Read Lecture 3 for Wed., Sept. 9. 	
2		Monday, Sept. 7	<ul style="list-style-type: none"> No Class Labor Day 			
2	5	Wed., Sept. 9	<ul style="list-style-type: none"> Lecture 3: Geographic Information Systems (GIS); Demonstration of Lab 4 (due Mon., Sept. 14) 			

2	6	Fri., Sept. 11	<ul style="list-style-type: none"> Continue Demo of Lab 4 in class Work on Lab 4 during class time 	<ul style="list-style-type: none"> SB Lab 4 due Monday, Sept. 14 Read Lecture 4 for Mon., Sept. 14
3	7	Monday, Sept. 14 (Lecture)	<ul style="list-style-type: none"> Lecture 4: Topo Maps Topo. Map Demonstration and PLS 	
3	8	Monday, Sept. 14 (Lab)	<ul style="list-style-type: none"> Continue Topo. Map Demonstration Concept Quiz #2 Assign Lab 5, Lab 6, Lab 7, Lab 8, and Lab 9 (due next Monday (after lab)) 	<ul style="list-style-type: none"> SB Lab 5, Lab 6, Lab 7, Lab 8, and Lab 9 (due next Monday after lab)
3	9	Wednesday, Sept. 16	<ul style="list-style-type: none"> Work on Labs 5-9 in class 	
3	10	Friday, Sept. 18	<ul style="list-style-type: none"> Work on Labs 5-9 in class 	<ul style="list-style-type: none"> Read Lecture 5 for Monday Read <i>Earth</i> Ch. 3 for Monday <p>Watch ER #12 for Monday</p>
4	11	Monday, Sept. 21 (Lecture)	<ul style="list-style-type: none"> Work on Labs 5-9 in AM class 	<ul style="list-style-type: none"> Labs 5-9 due in dropbox by end of lab time
4	12	Monday, Sept. 21 (Lab)	<ul style="list-style-type: none"> Lecture 5: Minerals Concept Quiz #3 	<ul style="list-style-type: none"> Begin minerals lab (SB Lab 10)
4	13	Wednesday, Sept. 23	<ul style="list-style-type: none"> No formal class meeting 	<ul style="list-style-type: none"> Work on Lab 10
4	14	Friday, Sept. 25	<ul style="list-style-type: none"> No formal class meeting 	<ul style="list-style-type: none"> Work on Lab 10
5	15	Monday, Sept. 28 (Lecture)	<ul style="list-style-type: none"> Lab 10: Mineral Identification Lab (in class) 	
5	16	Monday, Sept. 28 (Lab)	<ul style="list-style-type: none"> Finish Minerals Lab Review for Minerals Quiz 	<ul style="list-style-type: none"> Read <i>Earth</i> Ch. 12 for Wednesday time, Read Lecture 6 for Wednesday Prepare for Mineral Quiz on Wed. <p>Watch ER#3 for Monday</p>
5	17	Wednesday, Sept. 30	<ul style="list-style-type: none"> Mineral ID Quiz, Lecture 6: Earth's Interior 	
5	18	Friday, Oct. 2	<ul style="list-style-type: none"> Review of Minerals Quiz Finish Lecture 6 Concept Quiz #4 Review Q/A for Exam I 	<ul style="list-style-type: none"> Study for Exam I

6	19	Monday, Oct. 5 (Lecture and Lab time)	<ul style="list-style-type: none"> • EXAM I 	<p>Covers:</p> <ul style="list-style-type: none"> • <u>Earth</u>: Ch. 1, 3, and 12 • Lectures: 1-5 • Labs: 1-10 (no sample id) <p>ER#: 1, 3 and 12</p>	<ul style="list-style-type: none"> • Read <u>Earth</u> Ch. 4 for Wed.; • Read Lecture 7 for Wed. 	<ul style="list-style-type: none"> • Watch ER#14 for Wed.
6	20	Wednesday, Oct. 7	<ul style="list-style-type: none"> • Review of Exam I, • Lecture 7: Ign. Rocks • Concept Quiz #5 • Begin Lab 11 - Igneous Rock ID 		<ul style="list-style-type: none"> • Read <u>Earth</u> Ch. 5 for Friday • Read Lecture 8 for Wed. 	<ul style="list-style-type: none"> • Watch ER #13 for Friday
6	21	Friday, Oct. 9	<ul style="list-style-type: none"> • Lecture 7: Volcanoes • Concept Quiz #6 • Assign Labs 12 and 13 (due Monday) 		<ul style="list-style-type: none"> • Labs 12 and 13 (Due next Wed. after class); 	
7		Monday, Oct. 12	<ul style="list-style-type: none"> • No Class • Fall Break 			
7	22	Wed., Oct. 14	<ul style="list-style-type: none"> • Volcanoes Video • Concept Quiz #6 		<ul style="list-style-type: none"> • Read <u>Earth</u> Ch. 7 for Fri. • Read Lecture 9 for Fri. 	<ul style="list-style-type: none"> • Watch ER #17 for Fri.
7	23	Friday, Oct. 16	<ul style="list-style-type: none"> • Lecture 9: Sed. Rocks • Concept Quiz #7 		<ul style="list-style-type: none"> • Read <u>Earth</u> Ch. 6 and Ch. 8 for Monday; • Read Lectures 10 and 11 for Monday 	<ul style="list-style-type: none"> • Watch ER #15 and #18 or Monday
8	24	Monday, Oct. 19 (Lecture)	<ul style="list-style-type: none"> • Lecture 10: Weathering and Soils • Concept Quiz #8 			
8	25	Monday, Oct. 19 (Lab)	<ul style="list-style-type: none"> • Lecture 11: Metamorphic Rocks • Concept Quiz #9 • Labs 14 and 15 (in class) • Assign Lab 16 (due Wed.) 		<ul style="list-style-type: none"> • Lab 16 due on Wed. at end of class time 	
8	26	Wednesday, Oct. 21	<ul style="list-style-type: none"> • Work on Lab 16 (due at end of class) • Review for Exam II • Review for Rocks Quiz (on Monday, Oct. 26) 		<ul style="list-style-type: none"> • Lab 16 due at end of class time • Study for Exam II • Study for Rocks Quiz on Oct. 26 	
8	27	Friday, Oct. 23	<ul style="list-style-type: none"> • EXAM II 	<p>Covers:</p> <ul style="list-style-type: none"> • <u>Earth</u>: Ch. 4-8 • Lectures: 6-11 • Labs: 11-16 • ER#: 13-15, 17, 18 	<ul style="list-style-type: none"> • Read <u>Earth</u> Ch. 9 and 22 for Monday; • Read Lecture 12 for Monday 	<ul style="list-style-type: none"> • Watch ER #10 and 11 for Monday
9	28	Monday, Oct. 26 (Lecture)	<ul style="list-style-type: none"> • Review of Exam II, • Lecture 12: Geologic Time/Earth His 			

9	29	Monday, Oct. 26 (Lab)	<ul style="list-style-type: none"> • Finish Lecture 12 • Concept Quiz #10 • Review Q/A for Rocks Quiz • Rocks Quiz • Work on Lab 17 (due Friday) 	<ul style="list-style-type: none"> • Read <u>Earth</u> Ch. 10 for Wednesday; • Read Lecture 13 for Wed. 	<ul style="list-style-type: none"> • Watch ER # 8 for Wednesday
9	30	Wednesday, Oct. 28	<ul style="list-style-type: none"> • Lecture 13: Structural Geology and Crustal Deformation • Concept Quiz #11 • Assign Lab 18 (due Friday) 	<ul style="list-style-type: none"> • Read <u>Earth</u> Ch. 11 for Friday; • Read Lecture 14 for Friday 	<ul style="list-style-type: none"> • Watch ER#9 for Friday
9	31	Friday, Oct. 30	<ul style="list-style-type: none"> • Lecture 14: Earthquakes and Seismology • Concept Quiz #12 • Assign Labs 19 and 20 (due Monday, Nov. 2 after lab) 	<ul style="list-style-type: none"> • Read <u>Earth</u> Ch. 2 for Monday, Nov. 2 • Read Lectures 15 and 16 for Monday, Nov. 2 • Work on Labs 19 and 20 (due Mon., Nov. 2 after lab time) 	<ul style="list-style-type: none"> • Watch ER # 5 and ER# 6 for Monday, Nov. 2
10	32	Monday, Nov. 2 (Lecture)	<ul style="list-style-type: none"> • Lecture 15: Plate Tectonics: The History 		
10	33	Monday, Nov. 2 (Lab)	<ul style="list-style-type: none"> • Finish Lecture 15 • Concept Quiz #13 • Lecture 16: Plate Dynamics • Concept Quiz #14 • Assign Labs 21, 22, and 23 (due Fri., Nov. 6) 	<ul style="list-style-type: none"> • Labs 19 and 20 due after lab time) • Review <u>Earth</u> Ch. 2 for Wednesday • Work on labs 21-23 (due Fri.) 	
10	34	Wednesday, Nov. 4	<ul style="list-style-type: none"> • Work on labs 21-23 in class 	<ul style="list-style-type: none"> • Work on labs 21-23 (due Fri.) 	
10	35	Friday, Nov. 6	<ul style="list-style-type: none"> • Last day to withdraw from course • Work on labs 21-23 in class • Review Q/A for Exam III 	<ul style="list-style-type: none"> • Study for Exam III • Read <u>Earth</u> Ch. 15 for Monday at lab time; • Read Lecture 17 for Monday at lab time • Study for Exam III 	<ul style="list-style-type: none"> • Watch ER # 16 for Monday at lab time
11	36	Monday, Nov. 9 (Lecture)	<ul style="list-style-type: none"> • EXAM III 	<p>Covers:</p> <ul style="list-style-type: none"> • <u>Earth</u>: Ch. 2, 9-11, 13, 14 • Lectures: 11-16 • Labs: 17-23 • ER#:5-6, 8-11 	

11	37	Monday, Nov. 9 (Lab)	<ul style="list-style-type: none"> Lecture 17: Mass Wasting Concept Quiz #15 Video: "Gravity Kills" Assign Lab 26 (due Wed., Nov. 11) 	<ul style="list-style-type: none"> Lab 26: due Wed. after class Read <i>Earth</i> Ch. 16 for Wed.; Read Lecture 18 for Wed. 	<ul style="list-style-type: none"> Watch ER # 19 for Wed.
11	38	Wednesday, Nov. 11	<ul style="list-style-type: none"> Review of Exam III Lecture 18: Rivers and Drainage Concept Quiz #16 Assign Labs 27 and 28 (due Friday after class) 	<ul style="list-style-type: none"> Lab 26 due after class Work on Labs 27 and 28 (due Friday after class) Read Lecture 19 for Friday 	<ul style="list-style-type: none"> Watch ER # 21 for Friday
11	39	Friday, Nov. 13	<ul style="list-style-type: none"> Lecture 19: Groundwater Concept Quiz #17 Assign Lab 29 (due Monday after lab time) 	<ul style="list-style-type: none"> Work on Lab 29 (due Monday after lab time) Read Lecture 20 for Monday Read <i>Earth</i> Ch. 18 for Monday 	<ul style="list-style-type: none"> Watch ER # 23 for Monday
12	40	Monday, Nov. 16 (Lecture)	<ul style="list-style-type: none"> Lecture 20: Glaciers Concept Quiz #18 Assign Lab 30 (due Wed. after class) 		
12	41	Monday, Nov. 16 (Lab)	<ul style="list-style-type: none"> Work on Lab 30 in class during lab time 	<ul style="list-style-type: none"> Work on Lab 30 (due Wed. after class) Read <i>Earth</i> Ch. 21 for Wed. Read Lecture 21 for Wed. Bring article to class on "global climate change" for Wed. 	
12	42	Wednesday, Nov. 18	<ul style="list-style-type: none"> Lecture 21: Global Climate Change Concept Quiz #19 Assign Labs 24 and 25 (due Monday, Nov. 23 after lab time) 	<ul style="list-style-type: none"> Lab 30 due after class 	
12	43	Friday, Nov. 20	<ul style="list-style-type: none"> No class meeting Work on Labs 24 and 25 due on Monday, Nov. 23 after lab time) 	<ul style="list-style-type: none"> Work on Labs 24 and 25 due on Monday, Nov. 23 after lab time Read <i>Earth</i> Ch. 19 for Monday Read Lectures 22 and 23 for Monday 	<ul style="list-style-type: none"> Watch ER # 22 and ER #4 for Monday

13	44	Monday, Nov. 23 (Lecture)	<ul style="list-style-type: none"> Lecture 22: Wind and Deserts Concept Quiz#20 	
13	45	Monday, Nov. 23 (Lab)	<ul style="list-style-type: none"> Lecture 23: Oceanography Concept Quiz #21 Video: <u>Blue Planet</u> Assign Labs 31 and 33 (both due Monday, Nov. 30 after lab) 	<ul style="list-style-type: none"> Work on Labs 31 and 33 (both due Monday, Nov. 30 after lab);
13	46	Wednesday, Nov. 25	<ul style="list-style-type: none"> Work on Labs 31 and 33 in class 	<ul style="list-style-type: none"> Read <u>Earth</u> Chapter 20 for Monday, Nov. 30 during lab time Read Lecture 24 for Monday, Nov. 30 during lab time
13		Friday, Nov. 27	<ul style="list-style-type: none"> No class Thanksgiving Holiday 	<ul style="list-style-type: none"> Read <u>Earth</u> Chapter 20 for Monday, Nov. 30 during lab time Read Lecture 24 for Monday, Nov. 30 during lab time Watch ER #24 for Monday during Lab time
14	47	Monday, Nov. 30 (Lecture)	<ul style="list-style-type: none"> Finish Labs 31 and 33 	
14	48	Monday, Nov. 30 (Lab)	<ul style="list-style-type: none"> Lecture 24: Shorelines Concept Quiz #22 Assign Lab 32 (due Wed. before class) Review for Exam IV 	<ul style="list-style-type: none"> Lab 32 due before class time Study for Exam IV
14	49	Wed., Dec. 2	<p style="text-align: center;">EXAM IV</p>	<p>Covers:</p> <ul style="list-style-type: none"> <u>Earth</u>: Ch. 17-21 Lectures: 17-24 Labs: 26-32 ER#: 4, 16, 19, 21-24 <ul style="list-style-type: none"> Read <u>Earth</u> Ch. 23 for Friday Read Lecture 25 for Friday Watch ER # 26 for Friday
14	50	Fri., Dec. 4	<ul style="list-style-type: none"> Review of Exam IV Lecture 25: Energy and Minerals Concept Quiz #23 	<ul style="list-style-type: none"> Read Lecture 26 for Monday
15	51	Monday, Dec. 7 (Lecture)	<ul style="list-style-type: none"> Lecture 26: National Parks and Regional Geology Concept Quiz #24 (Last one) 	

15	52	Monday, Dec. 7 (Lab)	<ul style="list-style-type: none"> • Video: <u><i>America's National Parks: Lab 35</i></u> (due at end of class) 	<ul style="list-style-type: none"> • Read Lab 34 for Wed. 	Bring colored pencils, ruler, and 1 black marker (fine) to class on Wednesday
15	53	Wed., Dec. 9	<ul style="list-style-type: none"> • Work on Lab 34 in class (due Fri., Dec. 11 after class) 	<ul style="list-style-type: none"> • Work on Lab 34 (due Fri., Dec. 11 after class) 	
15	54	Friday, Dec. 11	<ul style="list-style-type: none"> • Finish Lab 34 (due at end of class) • GEO Party! • Review for Final Exam 	<ul style="list-style-type: none"> • Study for Final Exam 	
16		Monday, Dec. 14	<ul style="list-style-type: none"> • Reading Day No Class 		
16		Friday, Dec. 18	College Assigned Final Exam Time: 10:30 AM Comprehensive Final Exam		

*Note: Final Grades will be made available by **Monday, Dec. 21, 2009** on BlackBoard/BlueNet sites.