

**ES202W – PRINCIPLES OF GEOLOGY  
SEDIMENTARY GEOLOGY AND EARTH SURFACE PROCESSES**

**POLICIES AND PROCEDURES**

Winter Term 2006 - Western Oregon University  
4 CR MWF 11 AM - 12 PM Room 101 Natural Sciences Bldg.

INSTRUCTOR: Dr. S. Taylor

OFFICE: RM 210 Natural Sciences Bldg

OFFICE HOURS: M T 3-5 P.M.; F 4-5 P.M.

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**COURSE DESCRIPTION:**

This is an introductory course in Physical Geology that focuses on Earth surface processes, sedimentary systems, and sedimentary rocks. The rock cycle and plate tectonic theory are briefly surveyed at the beginning of the term. Emphasis topics include: sedimentary rocks, sedimentary processes, stratigraphy / time, rock weathering, mass wasting, fluvial systems, groundwater, glaciers, climate change, deserts, and coastal processes.

This is a writing-intensive course that is designed for students who have an interest in Earth Science, or who plan to major in Earth Science. Course content will generally be qualitative in nature, although basic mathematical skills (through algebra) will be reviewed and utilized to complete the lab exercises. Creative instructor-student interaction will be faithfully encouraged to provide a truly relaxed educational atmosphere.

**REQUIRED TEXTS:**

Marshak, S., **Essentials of Geology**: Norton & Company, Inc., 536 p.

Busch, R.M., ed., 2002, **Laboratory Manual in Physical Geology, 6th ed.**: American Geological Institute and National Association of Geoscience Teachers, Prentice Hall, New Jersey, 276 p.

**CLASS NOTES:**

A comprehensive set of instructor class notes are available for download via the internet. The class web site is at **URL <http://www.wou.edu/taylor>** ... and follow the links to the "ES202" home page.

The class notes are available as Adobe Acrobat Reader files (\*.pdf file). Acrobat Reader is free and is installed on many campus PC's. For home installation, Acrobat Reader is also available for download at the class website, but you will be responsible for properly installing the software (and will do so at your own risk!).

Based on prior student suggestions, I have assembled my class notes and made them available. These notes are required for the class, and may be freely printed at any campus internet station (e.g. ITC Bldg - Student Lab, Library, local department computer labs). **YOU ARE REQUIRED** to have a copy of the notes by class time during the appropriate week / lecture subject.

I will have the notes on overheads during lecture. All you have to do is listen, augment notes, and make drawings as I discuss a particular concept. You will not have to "take notes" in the sense of the traditional lecture format, but you will have to pay attention if you want to succeed. It is imperative that you get a copy of the notes, since I will not be allowing time for students to hand copy them during class. The notes are in outline form and are very comprehensive.

## OTHER REQUIRED MATERIALS:

Students will also need a scientific calculator, ruler, protractor, colored pencils, and frequent access to a personal computer connected to the internet. You will be required to use these materials during labs and exams. Please plan accordingly.

## EVALUATIONS AND EXPECTATIONS:

Student performance will be evaluated on the basis of quizzes, exams, lab exercises, homework, and a term paper. The following is a breakdown of evaluation points and letter grades:

Quizzes (2 x 25 pts ea)	50 pts	11%
Mid-Term Exam	100 pts	23%
Final Exam	125 pts	28%
Term Paper	35 pts	8%
Lab Exercise Portfolio (10 labs x 9 pts ea)	90 pts	21%
Homework Questions (8 x 5 pts ea)	40 pts	9%
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	Total 440 pts	100%

### Final Grading Scale

Percent Range of Total Points	Letter Grade	Percent Range of Total Points	Letter Grade
94-100%	A	77-79%	C+
90-94%	A-	73-76%	C
87-89%	B+	70-72%	C-
83-86%	B	67-69%	D+
80-82%	B-	63-66%	D
		60-62%	D-
		<60%	F

### Exams and Quizzes:

Exams and quizzes will consist of material covered both in lecture and lab periods. Quizzes will be administered once before the mid-term, and again between the mid-term and final. Quizzes are designed to keep the students abreast of their weekly studies, in preparation for the mid-term and final exams. Studying for quizzes is an excellent way to avoid last minute "exam cramming" and poor exam performance.

The final exam will be comprehensive with test material drawn from throughout the term, but will focus mostly on the material covered after the mid-term. Exams and quizzes will generally be a mix of objective questions (e.g. multiple choice, matching, true/false, completion), essay questions, and lab-style problems. Geology is a very visual, 3-dimensional science. *Be forewarned that you will be expected to include sketches and drawings in your essay answers!*

**Exams and Scantron Erasure Mark Policy:** Portions of the class exams may involve use of "scantron" answer sheets. Scantron erasure errors are common in instances where students do not effectively erase all unwanted pencil marks from the answer sheets. Erasure "shadow" marks can result in scantron mistakes with erroneous point subtraction and grade errors. The instructor commonly deals with erasure errors on a case by case basis. One or two erasure errors per exam are no problem and are commonly corrected on the spot. In instances where students claim greater than three scantron erasure errors, the instructor reserves the right to request that the student retake the exam in its entirety.

## **Term Paper:**

A term paper will be assigned by the instructor during the course of the term. Students will select a relevant topic at that time. Specific topics, methodology, and formatting will be prescribed by the instructor.

## **Lab Exercise Portfolio:**

The lab exercises represent a significant component of the class. Exercises are based on scientific observation, data analysis, and problem solving. Students will compile a Lab Portfolio consisting of a well-organized 3-ring binder with completed lab exercises. Students will complete approximately one (1) lab exercise per week of the term. A significant portion of exercises will be completed during lab period, however there will also be independent work required outside of the class (i.e. "homework").

A set of Pre-Lab Reading Questions have been prepared to encourage students to read lab material prior to attending class during any given week. Reading the weekly lab prior to attending class will result in better grade performance and permit the class to run more efficiently, maximizing benefits to all participants. The Pre-Lab Reading Questions are to be completed by the student prior to each week's lab session. Students may use their lab manual and text book to answer the Pre-Lab questions. Questions will be reviewed by the instructor during the lab period, and checked for completeness. The Instructor will return the reading questions to students during the lab period, and the work will be formally included as part of the Lab Portfolio.

Upon completion of the weekly exercise, students will write a 300-500 word summary of the work (neatly word-processed). The weekly exercise and summary will be organized in a 3-ring binder for review by the instructor. Each week's lab entry will be checked for completeness at the beginning of the next lab period. A weekly check-list will be maintained to reward those students who are responsibly completing the assignment on time. It is important to complete assignments on schedule, as the assignments are designed to help students understand lecture concepts and aid in successfully passing the exams. Lab Portfolio Part 1 will be submitted for comprehensive review and grading at the mid-term (this will include all labs and assignments completed prior to the mid-term exam). Lab Portfolio Part 2 will be submitted for comprehensive review during finals week (this will include all labs and assignments completed during the term). Refer to the attached sheet "Methodology for Completing Weekly Lab Exercises" for instructions on how to complete labs, write the summaries, and organize the portfolio.

Lab answer keys will be posted on the class web site by the instructor. It is your responsibility to: (1) check your work against the lab key, (2) make sure you understand how to complete the exercises, (3) find help if you have trouble with lab exercises, and (4) study / learn the exercise skills and material for the quizzes and exams.

**Outside Class and Lab Assignments:** Class and lab assignments will be worked BOTH during class time and outside of class time each week. You will have lab, reading, and homework assignments that may take up to several hours to complete. Please plan your schedule accordingly. Late assignments will not be accepted after the deadline prescribed by the instructor. Special arrangements for turning in late assignments with administrative excuses should be arranged in advance.

## **Make-up Exams, Make-up Labs, and Incompletes**

Under NO circumstances will make-up exams be administered without prior arrangement (at least three days) and good reason, with a signed administrative excuse. Please show up on exam day!

Lab exercises and demonstrations are set up on a weekly basis. Many of the labs require maps, rock samples, and other materials prepared by the instructor. As such, the lab materials will be set up and broken down on a weekly basis. Under NO circumstances will make-up labs be administered without prior arrangement (at least three days) and good reason, with a signed administrative excuse. Please show up

during your assigned lab period. Switching weekly lab periods must be approved by the instructor, prior to attending lab.

Under **NO** circumstances will a grade of "incomplete" be issued in the last week of class. If you find yourself in a situation where you can't complete the required course work, please make arrangements with the instructor prior to the last week of class. Contact the Office of the Dean of Students (838-8365) for assistance in arranging incompletes.

### **ATTENDANCE AND ASSIGNMENT POLICY:**

There is a direct correlation between attendance and student performance. Attendance is necessary for students to properly digest intellectual concepts presented in a college classroom format. The class assignments are designed to reward students who attend class on a regular basis. Absences with written excuses for medical reasons or university-related functions may be used to arrange make-up work with the instructor. As with incompletes, contact the Office of the Dean of Students to arrange for written excuses (838-8365).

### **STUDENT HONOR POLICY:**

Plagiarism and cheating will not be tolerated. Cheating includes copying others work and using cheat sheets on exams. However, students are encouraged to interact in small groups during lab exercises and class assignments. Specifically, you are encouraged to discuss concepts and ask questions of your student colleagues, but you may not directly copy their work. Cases of cheating and plagiarism will be referred to the appropriate university administrative office.

### **Plagiarism and Writing**

A significant component of research papers involves incorporating others written work into your product. There is a right way and wrong way to approach using others work. The wrong way includes directly copying text from a source, without recognizing where the information originated (this includes internet web sites!!!). In doing this, you are violating federal copyright laws and are being a lazy slouch who can't think for him/her self.

The methods of "paraphrasing" and "author citation" are the best way to avoid direct plagiarism when writing a term paper. The paraphrasing method involves: (1) reading the original work, (2) taking notes on the key terms and concepts, and (3) re-organizing and re-wording the work in your own voice. The author citation method allows a writer to use other's ideas and work, on one critical condition, that the writer cites and recognizes the original author's contribution. Information sources that require paraphrasing and author citation include: text books, journal articles, government publications, internet web sites, encyclopedias, magazines, and newspaper articles. Plagiarism on term papers can be readily avoided by using the paraphrasing and author citation methods. Directly copying other's written material will be considered "cheating" and will be referred to the university administration for disciplinary action (**this specifically includes directly copying text from web sites**).

### **STUDENTS WITH DISABILITIES**

Any student who has a disability that requires accommodation, please make an appointment to see me.

### **A NOTE ABOUT THE LAST WEEK OF CLASS:**

Given that the Oregon University System employs the "quarter-method" of academic scheduling, upper division courses are by nature "compressed" with much detailed content to cover in a relatively short period of time. As such, the 10th week of class is as critical to content coverage as the 1st week. Students should anticipate a full slate of "normal" activities during the last week of class, including lectures, lab exercises, homework, written reports, etc. The class is not over until after the final exam!

## **A NOTE ABOUT LOST OR MISSING WORK**

The instructor will only grade work that is received and physically visible. Any missing work (lab assignments, homework, quiz/test answer sheets) will receive a "0" on the grade sheet. This policy applies to work lost by the student or instructor. If the student demonstrates that the work was turned in, but is missing due to the instructor's incompetence, then the student will be afforded an opportunity to make up the work and resubmit it for graded credit. Otherwise, the student will not receive credit for lost or missing work.

## **CHANGE OF SYLLABUS - POP QUIZZES - UNANNOUNCED HOMEWORK ASSIGNMENTS**

The instructor reserves the right to modify the syllabus and class schedule at any time during the term. Students will be notified of such changes in a timely manner. The instructor also reserves the right to administer pop-quizzes and assign unscheduled homework / class assignments at any time. All students will be responsible for completing this work and it will comprise part of the final class grade.

**TENTATIVE COURSE OUTLINE:** This outline should be considered tentative at best. The following schedule may be modified as class ideas evolve throughout the semester.

Abbreviations for Reading Assignments are as Follows: M = Marshak, Essentials of Geology; AGI = Laboratory Manual in Physical Geology; Handouts = additional reading provided by instructor.

<u>Week</u>	<u>Dates</u>	<u>Class Content</u>	<u>Reading Assignment</u> (author / page)	<u>Lab Exercise</u>
1	Jan 9,11,13	Class Policies, Introduction, Overview of Earth	M: p. 1-8, Chap 1 AGI: p. 1-19 Lab: Handouts	Lab 1: Overview of Scientific Methods / Techniques
<b>Lab 1 Take-Home; NO FORMAL LAB MEETING WEEK 1</b>				
<b>Homework assignment – Week 1: Print out all of the course notes available on the class web site and organize them in a three-ring binder. Class note binders will be checked during the Week 2 Lab Session.</b>				
2	Jan 18,20	Overview of Tectonics, Matter, Minerals, Rocks	M: Chap 2-3, p. 98-105 M: p. 175-181 Lab: AGI p. 20-71	Lab 2: Review of Minerals, Rocks, and Tectonics
<b>NO CLASS JANUARY 16, 2005 - Martin Luther King Day</b>				
<b>Monday lab students must attend other labs this week!! (options T 12 AM -2 PM, W 1-3 PM, by appointment)</b>				
3	Jan 23,25, 27	Sedimentary Processes, Sedimentary Rocks	M: Chap 5 Lab: AGI p. 94-113	Lab 3: Sedimentary Rocks
4	Jan 30, Feb 1,3	Sedimentary Rocks II, Stratigraphy, Time	M: Chap 5, 10 Lab: Handouts	Lab 4: Intro to Sedimentology and Stratigraphy
<b>Quiz 1 Monday January 30</b>				
5	Feb 6,8,10	Weathering, Soils, Mass Wasting	M: Chap 5, 13 Lab: AGI p. 144-168	Lab 5: Topographic Maps and Aerial Photographs
6	Feb. 13,15,17	Fluvial Processes and Landforms	M: Chap 14 Lab: AGI p. 181-198	Lab 6: Fluvial (River) Systems and Landforms
<b>Mid-Term Exam, Monday February 13; February 17 – Last Day to Drop Without Grade Penalty</b>				
7	Feb. 20,22,24	Groundwater	M: Chap 16 Lab: AGI p. 199-212	Lab 7: Groundwater
8	Feb 27, Mar 1,3	Glaciers, Glacial Processes, Climate Change	M: Chap 18 Lab: AGI p. 213-233	Lab 8: Glacial Systems, Climate Change
9	Mar 6,8,10	Deserts, Eolian Processes, Desert Landforms	M: Chap 17 Lab: AGI p. 234-247	Lab 9: Desert Processes and Landforms
<b>Quiz 2 Monday Mar. 6</b>				
10	Mar 13,15,17	Oceans, Coastal Processes, Coastal Landforms	M: Chap 15 Lab: AGI p. 248-259	Lab 10: Coastal Processes and Landforms
11	Mar 20-24	<b>Finals Week (FINAL EXAM - Check Schedule)</b>		

## Homework Assignments

The homework assignments are designed as online exercises using your textbook, the internet, and campus software called "WebCT". I have prepared a set of online, fill-in-the-blank homework questions that are keyed to chapter readings in your textbook. By using the WebCT software, your homework exercises are administered and graded online. This eliminates much paperwork on my end, and makes your homework seem more like a video game (which makes it slightly more enjoyable for both of us). Individual weekly homeworks will be available for one week at a time throughout the term. **You will only be able to complete and submit the assigned online homework during the availability time. If you miss the deadlines you will receive a "zero" for the homework. Pay attention to the dates listed below!**

**The following are procedures for accessing the online homework assignments:**

- (1) You will have an individual student account set up on WebCT with a username and password.
- (2) The WebCT website may be accessed in the following ways:
  - (a) from the class homepage (www.wou.taylor ... follow the links to ES202 ... then follow the links to "WebCT" in the Homework Assignments section), or
  - (b) by surfing to **http://www.wou.edu/webct**
- (3) Once at the site, choose the "Log On to My WebCT" option. **DO NOT CHOOSE "Create myWebCT", this has already been done for you.**
- (4) Enter your WebCT student username- **This will be the same as your student server username** (the first letter of your first name + the first 6 letters of your last name, for e.g. *jsmith* or *jwoodwa*)  
**Use all lower case letters only!!!**
- (5) Enter the last 4 digits of your student ID number for the password. **Use all lower case letters only!!! Your password will be the last 4 digits of your "V no.", just like your student server account.**
- (6) Once you are logged in, look for the "Change Password" icon... you can change your password at any time!
- (7) Click on the "Homework Assignment" icon.
- (8) Click on the homework assignment you wish to complete, and begin the online assignment.
- (9) **For each question, type in an answer in the blank box provided and click on the "save answer" radio button. When finished with all questions in the homework, click on "Finish". IF YOU DON'T SEE YOUR "HOMEWORK GRADE" AFTER YOU SUBMIT, THEN YOU DID NOT FOLLOW THE ABOVE INSTRUCTIONS. REMEMBER TO "SAVE ANSWER" FOR EACH QUESTION AND "FINISH" WHEN YOU HAVE COMPLETED THE HOMEWORK.**
- (10) You may stop and begin the assignment as many times as you wish, but only until you click "submit for grading".
- (11) **Make sure you print a hard copy of your homework answers and/or save them as a file on your local drive! The print out will be your hard-copy record that you completed the work. IF YOU DO NOT SAVE A HARD COPY OF YOUR WORK, AND THE COMPUTER RECORDS IT AS "0" THEN YOU WILL RECEIVE A "0"... SAVE A HARD COPY OF ALL YOUR WORK AS A BACK-UP RECORD.**

**Note:** Pay attention to the availability dates, once the deadline has passed you are out of luck! You have unlimited time and an unlimited number of tries to correctly answer and submit the questions. Your highest score will be recorded as the grade.

**Note:** Print your questions and answers from the browser icon... this will be your written record of completing the assignment!!

### Tips and Tricks for Completing the Online Homework:

- (1) Read the text chapter in question before you start. The text readings are listed on the schedule above.
- (2) Log-on to WebCT and print out a copy of the homework questions.
- (3) Answer the questions on paper with your textbook, prior to working and submitting them online.
- (4) Log-on to WebCT and finish the online assignment.
- (5) Print a copy of your completed online homework, this is your hard-copy record that you completed the assignment (remember - if there is a way for a computer to make a mistake, it will happen to you!).

### Homework Assignment Schedule

No.	Topic	Marshak Text Chapter(s)	Online Availability Dates
1	Minerals, Rocks Tectonics	Chap 1,2,3,4	01/09/06-01/20/06
2	Sedimentary Rocks Geologic Time	Chap 5, Chap 10	01/20/06-01/27/06
3	Weathering / Mass Wasting	Chap 5, Chap 13	01/27/06-02/03/06
4	Rivers	Chap 14	02/03/06-02/10/06
5	Groundwater	Chap 16	02/17/06-02/24/06
6	Glaciers	Chap 18	02/24/06-03/03/06
7	Deserts	Chap 17	03/03/06-03/10/06
8	Coasts	Chap 15	03/10/06-03/17/06