

**PHYSICAL GEOLOGY LABORATORY: Syllabus for Fall 2014**

**EEES 1020, Section 001,002**

**Location: Wolfe Hall, Room 1234**

**Time: 12:00-1:50pm and 2:00-3:50pm**

**Instructor:** Jennifer Horton

**Contact Info:** Jennifer Horton@rockets.utoledo.edu

**TA Office Hours:** Monday 1.00-3.00pm Thursday 9-10am or by appointment BO3049

**Mailbox:** Wolfe Hall, Room 1235 (Env Sciences Department Office)

**REQUIRED Textbook:**

Physical Geology Laboratory Exercises (EEES 1020, 3<sup>rd</sup> Edition) by Harrell and Becker  
ISBN 9780757584558, purchased at UT bookstore for \$45 (new only, cannot buy used)

**\*\*\*\*Please obtain the textbook no later than the second class period.\*\*\*\***

**Supplies needed:** Pencil (please don't use pen!) and textbook

**Optional supplies:** magnifying glass, calculator, colored pencils, and a ruler

**Student Learning Objectives**

- Identify, classify, and understand the origin and development of earth materials including minerals, igneous, sedimentary, and metamorphic rocks
- Comprehend the nature of Earth systems.
- Apply certain reasoning skills, field and laboratory observations and experimentation, and scientific inquiry as a means of studying geologic materials, processes, and concepts
- Recognize the relevance of knowledge about earth materials and processes to world society and history, betterment of living, and environmental awareness
- Understand surficial processes of weathering and erosion and the development of landforms and landscapes related to hydrologic, glacial, atmospheric, and oceanic systems
- Utilize topographic and geologic maps to interpret landscape evolution and geologic history.
- Describe modes of internal deformation and geologic structure development.
- Possess a knowledge of plate tectonics and the evolution of Earth's surface through time and its relation to world-wide volcanic and seismic activity
- Comprehend the rationale of geologic time and the ordering of Earth events and materials through geologic observations of materials, structures, and landforms

**Expectations**

- Complete your work and turn in class assignments on time (*See 'What's Due' on schedule*) I do not accept late work unless you talk to me in advance or present an excused absence. Work must be stapled and turned in to my green bin before the end of class on the due date
- *Read the labs before class!* Assignments will be much easier when you have read the material. We will have weekly quizzes. Quizzes will cover the assigned reading and past lab material
- Ask questions during lab or during office hours if you do not fully understand a topic. Don't be afraid to take advantage of office hours or schedule a meeting. Help me, help you

- Do your OWN work – your assignments should always be written in your own words, and not that of your lab partner(s) Working in groups is encouraged--However, copying others' assignments is not

| Date     | In Class  | Homework   | What's Due                  |
|----------|---|--|-----------------------------|
| 1/12/15  | Introduction  | What is the Scientific Method? And get textbook. Read Ch 1 | -----                       |
| 1/19/15  | No Class  |  |                             |
| 1/26/15  | Mineral Lab and reading quiz                        | Work on Mineral Lab  | Scientific Method HW        |
| 2/02/15  | Mineral Lab   | Read Chapter 2 and study for exam                          | Mineral Lab by end of class |
| 2/09/15  | Quizam over Minerals<br>Igneous Lab                 | Read Chapter 3 and finish Igneous Lab                      | -----                       |
| 2/16/15  | Sedimentary Lab and reading quiz Ch. 2&3            | Read Chapter 4 and finish Sed. Lab                         | Igneous Lab                 |
| 2/23/15  | Metamorphic Lab and reading quiz Ch. 4              | Study for Exam! Finish Metamorphic Lab                     | Sedimentary Lab             |
| 3/02/15  | Exam over Igneous, Sed, and Meta Rocks              |  | Metamorphic Lab             |
| 3/09/15  | Spring Break  |  |                             |
| 03/16/15 | Stream Hydrology (Supplement)                       | Finish Lab   | -----                       |
| 03/23/15 | Groundwater Aquifer (Supplement)                    | Finish Lab and read chapter 5                              | Stream Lab                  |
| 03/30/15 | Geologic Time and Age Dating and ch 5. Reading quiz | Finish Lab and read chapter 6                              | Groundwater Lab             |
| 04/06/15 | Topographic Maps and ch 6. Reading quiz             | Finish Lab and Review for exam                             | Geologic Time Lab           |
| 04/13/15 | Field Observations                                  | Study  | Topo Lab                    |

|         |            |  |                    |
|---------|------------|--|--------------------|
| 4/20/15 | Final Exam |  | Field Observations |
|---------|------------|--|--------------------|

- Put effort into your assignments – ‘As’ are not *given* for simply attending class, they are *earned*
- Show up to class and *on time* – Labs are done in class and with few exceptions *cannot* be made up

**Electronic Devices:** Please DO NOT use cell phones or laptops during laboratory. With the exception of eminent family or medical emergencies, cell phones must be put on silent during class. Your friends will survive two hours without hearing from you and vice versa by simply making them aware of your school schedule. Notes are more effective when written by hand without distraction from the temptations of the Facebook.

| Grading Scale          |                                 |
|------------------------|---------------------------------|
| Lab exercises:         | 10 points each (100 total pts ) |
| Weekly Quizzes:        | 5 points each (40 total pts )   |
| Quizam:                | 10 points                       |
| Exam I:                | 20 points                       |
| Final Exam:            | 40 points                       |
| Participation:         | 10 points                       |
| Total Points Possible: | 250 points                      |

**Exams:** Exams will be held during class periods. Excused absences from an exam should be discussed with the TA **BEFORE** the exam, and must be made up within a week following the reason for the excused absence.

**Quizzes:** There will be WEEKLY quizzes over the assigned readings during all non-exam class periods. They will be worth 5 points each and cover the assigned readings listed on the schedule above or previous readings.

**Lab Assignments:** Lab assignments are due at the **beginning** of class as listed above. Labs must be **stapled** and placed in instructor's **blue tray**. Late assignments are subject to receive NO CREDIT at instructor's discretion.

**Exam Study Sessions:** Before each exam, students will schedule an instructor-guided *optional* review session outside of regular class time.

**Absences from Labs:** Please email me before the lab period if you will not be there. It is your responsibility to make up all missing work. Labs from each week will be kept in my blue filing box.

**Drops, Withdrawals and Incompletes** If you "drop" this class before 5:00 PM on the 15<sup>th</sup> calendar day of the semester (Aug. 30) it will not appear on your transcript. From this date until the last day of the 10<sup>th</sup> week of the semester you may "withdraw" from the class without the instructor's permission but a "W" will appear permanently on their transcript (until 10/25). If a student has not withdrawn from the course and by the end of the semester has missed some of the exams and/or lab assignments, those missed will be given a zero score and averaged with the others to obtain the final letter grade. A grade of "incomplete" will not be given in this case except for reasons of well-documented medical or other exigency.

If you are not familiar with the University's standards for Academic Dishonesty (cheating, plagiarizing, etc.) and possible sanctions (ranging from verbal reprimand to expulsion), please review them in the university catalog at

<http://www.utoledo.edu/catalog/2011catalog/index.html>

If you have a disability which may require a classroom accommodation, you need to register with the Office of Accessibility, Room 1400 Snyder Memorial (Voice 419 530 4981, TTY 419 530 2612), if you have not already done so. Information shared with the Office of Accessibility will be kept confidential to the extent consistent with State and Federal law.

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