

GLY 4552C
Sedimentary Geology Lab
Fall 2015

Instructor: Michelle Penkrot
e-mail: mpenkrot@ufl.edu (please do not send email through Canvas)
Office: Williamson Hall 258
Hours: Tuesday, 9:00-10:00 am
Or by appointment
Sections: 14FE: Wednesday, periods 6-7 (12:50-2:45pm)

Instructor: Kendall Salinas
e-mail: ksali6549@ufl.edu (please do not send email through Canvas)
Office: Williamson Hall 266
Hours: Thursday, 4:30-5:30 pm
Friday, 3:00-4:00 pm
Or by appointment
Sections: 14G4: Wednesday, periods 8-9 (3:00-4:55pm)
14G6: Friday, periods 6-7 (12:50-2:45pm)

Course Goals

This course aims to develop the student's expertise in sedimentology by consideration of both theoretical and practical approaches. A broad range of techniques for the analysis of sediments will be introduced by means of lectures, laboratory exercises and field trips. Emphasis in lab is placed on the study of physical sedimentology, subsurface data, and sedimentary petrology.

Required Supplies: Field notebook and a hand lens. Rock hammers are recommended but not required. Other classroom materials will be provided.

Field Book: Field notebooks are a fundamental part of Geology and Geography. For each field trip, you will be required to take field notes in YOUR field notebook that are YOUR own notes. Your field notebook needs to be a real field notebook; exceptions will not be made if a homemade field notebook is destroyed by the elements. The format required will be detailed for each trip. The content and neatness of your field book will make up 10% of your lab grade. You are required to bring your field book to every lab as collection of it is at my discretion and can be done at any point in the semester. This will happen several times throughout the semester.

Disability Services:

"Students requesting classroom accommodation must first register with the Dean of Students Office. The Dean of Students Office will provide documentation to the student who must then provide this documentation to the Instructor when requesting accommodation."

Academic Honesty:

Copying, cheating, and plagiarism as defined by the University of Florida Academic Honesty Guidelines will not be tolerated in any way and will be reported to the University administration: DON'T DO IT!

Lab Schedule: *(subject to change)*

| | | |
|----------------|-----------------------------------------------------------------------|-----------------------------------------------------------------|
| Week 1 | Week of 8/24 | Lab Introduction Observational Geology #1 |
| Week 2 | Week of 8/31 | Observational Geology #2 |
| Week 3 | Week of 9/7 | Figure Presentation Excel Primer Introduction to Texture |
| Week 4 | Week of 9/14 Sunday, 9/20 | Textural Analysis |
| | | Talbot Island/Beach Field Trip 6:30am Departure |
| Week 5 | Week of 9/21 | Weathering |
| Week 6 | Week of 9/28 | Sediment Transport |
| Week 7 | Week of 10/5 | Bedforms |
| Week 8 | Week of 10/12 | Mars Paleoenvironments Intro to Siliciclastic Petrography |
| Week 9 | Week of 10/19 | Siliciclastic Petrography Mineral Scavenger Hunt |
| Week 10 | Week of 10/26 | Siliciclastic Petrology – Thin sections |
| Week 11 | Week of 11/2 Homecoming – off Friday Field Trip - 8:00am | Diagenesis |
| | | Field Trip - 8:00am |
| Week 12 | Week of 11/9 Veterans Day – off Wed. | Florida Sedimentary Geology – Subsurface fluids |
| Week 13 | Week of 11/16 | Florida Sedimentary Geology - Lithofacies |
| Week 14 | Week of 11/23 | Thanksgiving – No Labs |
| Week 15 | Week of 11/30 | Florida Sedimentary Geology – Well log correlations |
| Week 16 | Week of 12/8 12/9 last day of classes | Last Day To Hand In Labs |
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Field trips are shown in **BOLD**. If you have a conflict with any of the field trips please let your TA know asap.

****Lab schedule is tentative and subject to change****

Labs are due at the beginning of YOUR NEXT lab section (one week later) following completion of the lab work. **Emailed work will be automatically counted as late.** Group projects are for your benefit, but each of you must turn in your own, unique write-ups (unless otherwise notified). Figures and tables cannot be shared between classmates for inclusion in lab submission, even if you worked together. Identical assignments will not be accepted. Unless otherwise noted, labs must be **typed**.

Grading:

| <u>Assignment</u> | <u>Due</u> | <u>Percent of Grade</u> |
|------------------------------|-----------------------|--------------------------------|
| Lab Participation | Everyday | 5% |
| Field Notebook | TBA | 10% |
| Observational Geology (I) | Week of 8/31 | |
| Observational Geology (II) | Week of 9/7 | part I+II 5% |
| Literature Review Exercise | Week of 9/15 | 5% |
| Textural Analysis | Week of 9/22 | 5% |
| Beach Field trip assignment | Lecture on 9/28 | 10% |
| Weathering | Weeks of 9/28 | 5% |
| Sediment Transport | Weeks of 10/5 | 5% |
| Bedforms/Mars | Weeks of 10/12, 10/19 | 5% |
| Diagenesis | Week of 11/9 | 5% |
| Talbot Island written report | Week of 10/19 | 20% |
| Siliciclastic Petrology | Week of 11/2 | 10% |
| Florida Sedimentary Geology | Wed 12/10 | 10% |

Rewrite Policy:

For the Talbot Island research paper, rewrites of the assignment will be allowed after the graded assignment has been handed back. The original assignment will count for 30% of the final assignment grade while the rewrite grade will count for 70% of the grade.

Attendance and Late Policy:

We will not take role in lab, it is your responsibility to attend class and make arrangements with your TA if you are going to miss class. The nature of the lab assignments means that make up work and make up field trips are difficult.

Lab assignments must be completed and handed in by the **beginning** of the next lab meeting. For assignments due in lecture, they must be handed in at the beginning of class to be counted as on time. **Any late work will receive an automatic 10% grade deduction for every day that it is late**, including weekends. If you are late to class, your assignment will be counted as late. We must receive prior notification for any absences, at which point we will discuss possible make-up work. Any lab missed without prior notification will result in a zero for that assignment. It is possible, with prior notification, to make up local field work; however, field work outside of Gainesville cannot be made up. These circumstances are easily prevented by NOT MISSING FIELD TRIPS. So be prepared, and pay attention to the schedule.