

## SEDIMENTOLOGY/STRATIGRAPHY LAB SCHEDULE

Handouts will be provided in class. You will need to bring supplies to each class including: a lead pencil, colored pencils, a ruler, a protractor, and graph paper. Labs are due by 11:59:59 pm on the date indicated. In other words, they must be under my door before 8:30 am the following morning. Late labs and projects will be docked 5%/day.

**Field Projects:** Departure promptly at 8:30am, return before 2:20 pm. You may drive your own car. Dress appropriately. Field reports are due as indicated. Late reports will be docked 5%/day and will not be accepted after one week.

| <u>DATES</u> | <u>TOPICS</u>                                       | <u>DUE DATE</u> |
|--------------|---|-----------------|
| 1/22         | Introduction  |                 |
| 1/29         | Classification of Sedimentary Structures & Textures | 2/4             |
| 2/5          | Classification of Clastic Rocks                     | 2/11            |
| 2/12         | Classification of Carbonate/Precipitant Rocks       | 2/18            |
| 2/19         | Stratigraphic Sections                              | 2/25            |
| 2/26         | Correlation Charts                                  | 3/4             |
| 3/5          | Panel Diagrams                                      | 3/11            |
| 3/12         | Seismic Stratigraphy                                | 3/25            |
| 4/9          | Field Trip: Shallow Clastics                        | 4/21            |
| 4/16         | Field Trip: Carbonates                              | 4/27            |
| 4/23         | Field Trip: Appalachian Trip with RU-NB             | 4/29            |
| 4/30         | <b>LAB PRACTICAL</b>                                |                 |

**BRING THIS SYLLABUS TO CLASS**

## SEDIMENTOLOGY AND STRATIGRAPHY

Professor Alec Gates  
Office: 137 Smith Hall  
Hours: Th 1-2:30

Lecture and Lab:  
F 9:00 am-3:00pm  
Room: 128 Smith Hall

TEXTBOOK: Principles of Sedimentology and Stratigraphy, 4<sup>th</sup> edition by Sam Boggs, Jr.  
**Always bring the textbook to class.** GRADING: 3 exams (15% each), 7 laboratory exercises (21%), 3 field projects (18 %), lab exam (10%), participation (6%).

| <u>DATES</u> | <u>TOPICS</u>                                 | <u>READING</u> |
|--------------|---|----------------|
| 1/22         | Introduction: Weathering, Fluid Flow, Texture | Ch. 1 & 2      |
| 1/22-29      | Sedimentary Textures and Structures           | Ch. 3 & 4      |
| 2/5-2/12     | Classification of Sedimentary Rocks           | Ch. 5, 6 & 7   |
| 2/19         | Depositional Environments: Terrestrial        | Ch. 8          |
| 2/26         | <b>EXAM #1</b>                                |                |
| 2/26         | Marginal Marine Environments                  | Ch. 9          |
| 3/5          | Siliclastic Marine Environments               | Ch. 10         |
| 3/12         | Carbonate and Evaporite Environments          | Ch. 11         |
| 3/26         | Lithostratigraphy and Seismic Stratigraphy    | Ch. 12 & 13    |
| 4/2          | <b>EXAM #2</b>                                |                |
| 4/9          | Field Trip: Shallow Clastics                  |                |
| 4/16         | Field Trip: Carbonates                        |                |
| 4/23         | Field Trip: Appalachian Trip                  |                |
| 4/30         | Biostratigraphy, Basin Analysis               | Ch. 15 & 16    |

### FINAL EXAM

**BRING THIS SYLLABUS TO CLASS**