

Sedimentary Rocks (GEO f316P)

Summer 2013

Lecture: Meets MTWTH 9 AM - 12 PM, GSB 5.153

Instructors: Dr. Wonsuck Kim, delta@jsg.utexas.edu
Office: EPS 3.154, Office hours: TWTH 1 – 2 PM & by appointment

Date	Lecturer	Topic	Reading*
8-July	WK	Class Intro: Overview of Sedimentary Deposits Sediment Production (Weathering)	B (Intro), B6 B3
9- July	WK	Grain Parameters	B1
9- July	WK	Grain Mineralogy	B5
10-July	WK	Sediment Transport	B2
11-July	WK	Bedform	B4
11-July	WK	Other Sedimentary Structures	B4
15-July	WK	Aeolian Systems	B8.3
16-July	WK	Rivers and Alluvial Fans	B8.2
16-July	WK	Deltas	B9.2
17-July	WK	Shoreface and Deepwater Sedimentation	B10
18-July	WK	Stratigraphic Concepts 1	B13, B16
18-July	WK	Stratigraphic Concepts 2	B13 & 16
22-July	WK	EXAM 1 (Siliciclastic Sedimentary Rocks)	
23-July	WK	Chemical Sediments	P&S 13 & 14
23-July	WK	Carbonates Mineralogy and Geochemistry	T&W 1.3;
24-July	WK	Carbonate Factory Carbonate Constituents: Skeletal Grains	P&S 12.1 T&W 1.2
25-July	WK	Carbonate Constituents: Non-skeletal Grains Carbonate Mud & Porosity	T&W 1.4 & 1.9 T&W 1.7
25-July	WK	Carbonate Classification and Facies	B11, T&W 2
29-July	WK	Modern Carbonate Facies and Depositional Systems Carbonate Depositional Systems: Peritidal	T&W 4; S 14 T&W 4.3; S 14
30-July	WK	Carbonate Depositional Systems: Slopes	T&W 2.10
30-July	WK	Carbonate Depositional Systems: Reefs	T&W 4.5
31-July	WK	Modern Carbonates Carbonate Sequences	T&W 3 S 6, 7, & 8
1-Aug	WK	EXAM 2 (Carbonate Sedimentary Rocks)	

Final Exam: none

***Required course materials:**

- B: Boggs, *Principles of Sedimentology and Stratigraphy* (4th or 5th edition)
- iClicker: version 1 or 2

***Other texts (library reserve):**

T&W: Tucker, M.E. and Wright, V.P. (1990), *Carbonate Sedimentology*.

S: Wolfgang Schlager, (2005), *Carbonate Sedimentology and Sequence Stratigraphy*
P&S: Prothero, D.R. and Schwab, F. (2004), *Sedimentary Geology*.

Lecture notes: Lecture notes and readings from other texts can be found on Blackboard (<http://courses.utexas.edu>).

Class policy, procedures and grading: Historically, there is a very strong correlation between exam grades and attendance.

- There will be two lecture exams; each will consist of multiple-choice questions and will be worth 100 points. These two lecture exams will constitute 70% of the final class grade.
 - o There are no make-up lecture exams in this class. Please look at the exam schedule above and make sure that you do not miss any exams.
- There will be iClicker questions each class. Each is a multiple-choice question and will be worth 100 points. A correct answer will give 100 points otherwise 50 points. The iClicker questions will make up 30% of the final class grade.
 - o There are no make-up iClicker quizzes in this class. This is also for improving attendance. You will get at least 50 points per question even though your answer is wrong.
- There are no extra credit assignments in this class.
- Whole letter grades (no +/-) are assigned at the end of the semester based on the following:
 - o ≥ 80 : A
 - o < 80 & ≥ 70 : B
 - o < 70 & ≥ 60 : C
 - o < 60 & ≥ 50 : D
 - o < 50 : F

COURSE EXPECTATIONS

• **Laptop Use Policy** – Classroom Laptop use for taking notes related to this course only. Laptop activities unrelated to this course will lead to dismissal from class. **Repeat offenses will result in a filing of a report of academic problems.**

• **Other Electronic Devices (Cell phone, Blackberry, I-Phone, etc.) Use Policy** – **All devices must be turned off during class.** Any use of these devices, including texting, web-surfing, etc. will lead to dismissal from class. **Repeat offenses will result in a filing of a report of academic problems.**

IMPORTANT INFORMATION ON UNIVERSITY POLICIES

The University of Texas Honor Code

The core values of The University of Texas at Austin are learning, discovery, freedom, leadership, individual opportunity, and responsibility. Each member of the University is expected to uphold these values through integrity, honesty, trust, fairness, and respect toward peers and community.

Religious Holidays – Religious holy days sometimes conflict with class and examination schedules. If you miss an examination, work assignment, or other project due to the observance of a religious holy day you will be given an opportunity to complete the work missed within a reasonable time **after** the absence. It is the policy of The University of Texas at Austin that **you must notify each of your instructors at least fourteen days prior to the classes scheduled on dates you will be absent** to observe a religious holy day.

Documented Disability Statement - Any student with a documented disability who requires academic accommodations should contact Services for Students with Disabilities at 471-6259 (voice) or 1-866-329-3986 (Video Phone) as soon as possible to request an official letter outlining authorized accommodations. See Website below for more information: <http://deanofstudents.utexas.edu/ssd/providing.php>