

SEDIMENTOLOGY SCHEDULE (Spring 2017)

	Classroom			Beach 101	Due 11.59 pm on the Wednesday before class meets		
Date	9.05 am - 9.55 am	10.10 am - 11.00 am	11.15 am - 12: 05 pm	Afternoon Lab	Deliverables		
20-Jan	Welcome and Intro	Weathering Products	Weathering Products	1. Sediment transport and spatial sorting of particles- Intuition lab 2. Bonnet Carre plotting exercise 3. Intro to Class tools: Setting up google drives; Twitter accounts; Basics of excel.			
27-Jan	Grain Minerology	Rock classification	Grain Parameters	1. 6-fold classification scheme 2. Grain size distributions 3. 2-D and 3-D Delta source-to-sink intuition 4. Textural Maturity exercise <i>OR FIELD TRIP</i>		Summary write-up ; discussion post	Blog # 1
3-Feb	Flow and Sediment Transport	Flow and Sediment Transport	Flow and Sediment Transport	Field trip: shear stress controls on grain size, sediment sorting in rivers		Summary write-up ; discussion post	
10-Feb	Bedforms and their sedimentary structures	Bedforms and their sedimentary structures	Bedforms and their sedimentary structures	1. Bedforms in hand sample 2. Wilbur Cross Columns 3. 1-D Flume ripples 4. wave ripples		Summary write-up ; discussion post	Homework 1
17-Feb	Rivers	Rivers	Sediment Transport Exercise (Fenton River)	Sediment Transport Exercise (Missouri River)		Summary write-up ; discussion post	Blog # 2
24-Feb	Deltas	Deltas	Discuss class lab project; Principles of experimental design	1. core logs 2. Design class Lab Project <i>OR FIELD TRIP</i>		Summary write-up ; discussion post	
3-Mar	Shoreline and shoreface deposition	Shoreline and shoreface deposition	Presentation of lab project proposals Students sign-up for research article presentations	River dynamics in PVC flumes <i>OR FIELD TRIP</i>	Exp. Proposals	Summary write-up ; discussion post	Homework 2; Note book check
10-Mar	Deep-water systems	Deep-water systems	Terrestrial to submarine transitions	Fluvial deposits field trip (Fenton)	run class expt.	Summary write-up ; discussion post	Blog # 3
17-Mar	SPRING BREAK						

24-Mar	Stratigraphy	Stratigraphy	students presentations (1-3)	1. Wheeler Diagrams 2. Walther's Law Exercise 3. Class Project update	run class expt.	Summary write-up ; discussion post	
31-Mar	Sequence Stratigraphy	Sequence Stratigraphy	students presentations (4-6)	1. Sequence Stratigraphy Seismic exercise 2. deep water Seismic Exercise 3. Class Project Update	run class expt.	Summary write-up ; discussion post	Home work 3
7-Apr	Hydrocarbon systems	Hydrocarbon systems	students presentations (7-9)	Core description <i>OR FIELD TRIP to fluvial outcrops- Buckland Hills</i>	run class expt.	Summary write-up ; discussion post	Blog # 4
14-Apr	Provenance	Provenance	Diagenesis & Rock Classification	fluvial outcrops: Constructing measured sections <b>All-Day field trip on 15th April (deltas on glaciated landscapes)</b>	run class expt.	Summary write-up ; discussion post	
21-Apr	Projects			<b>Field trip rain-date 22 April; or field trip to small active deltas in Springfield, MA</b>		Summary write-up ; discussion post	Home work 4
28-Apr	Projects			Project Presentations	Submit Powerpoint slides		
3-May	Final Paper due; Hand in Notebooks						
Anjali travelling: Feb 21-23; March 31-April6.							