

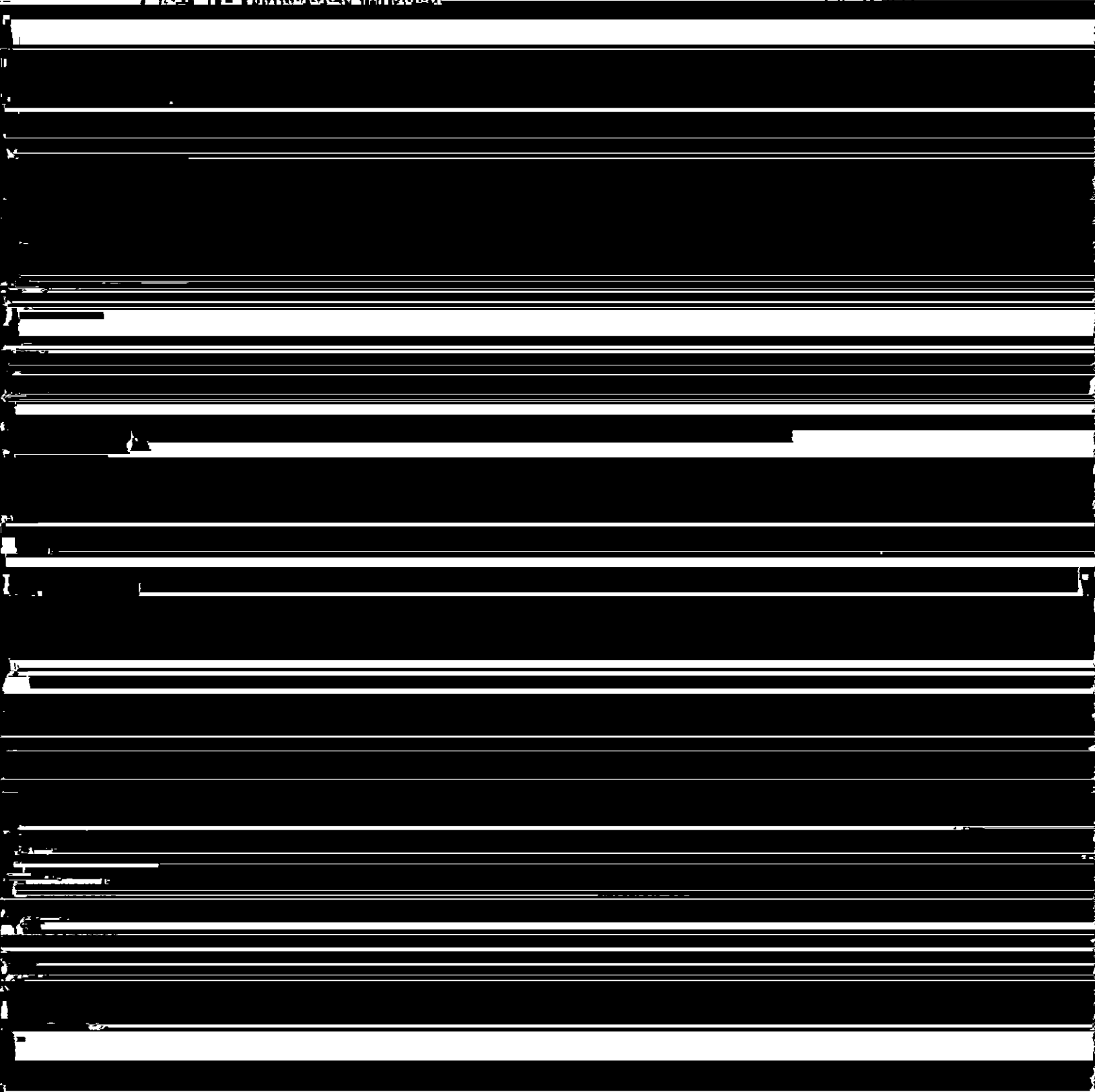
Part II. Description of Curricular Change

1. SYLLABUS OF RECORD

I. Catalog Description

GEOS 355 Sedimentary Petrology

(3c-3L/4cr)



D. Siliciclastic sedimentary rocks: coarse-grained

(7 hours)

Analysis and interpretation of sandstone, conglomerate and breccia

V. Example Grading Scale

The final grade will be assigned based on the semester average using the scale: 90-100%=A; 80-89%=B; 70-79%=C; 60-69%=D and below 60%=F.

VI. Attendance Policy

The attendance policy will conform to IUP's undergraduate course attendance policy.

VII. Required Textbook

Prothero, D.R. & Schwab, F. 2014. *Sedimentary Geology* (3rd Ed): W.H. Freeman and Co., 500

2. SUMMARY OF PROPOSED REVISIONS

We propose to convert Sedimentary Petrology from a format of 2c-31-3cr (two lecture hours, three lab hours per week) to a more rigorous format of 3c-31-4cr (three lecture hours, three lab hours per week). The additional lecture hour will be used to add more student-centered work, quantitative analysis and in-class problem solving exercises to lectures in order to achieve the

learning outcomes for the two program tracks that will now use this course as a

In order to achieve better learning outcomes, the Geoscience Department has re-designed its curriculum to reduce some of its 'ala carte' nature while still allowing students to have as much flexibility in scheduling and transferability between program tracks as possible. Sedimentary Petrology will now function as a key track requirement in both the Geology BS and BS in Energy Resources, giving those students the exposure they need to sedimentary rock

Sed Petrology

Instructor: Katie Farnsworth

Lectures: M & W 9:05 – 9:55
Walsh 104

Office: Walsh 113

Lab: M 1:25 – 4:15 pm
Walsh 108

Email: kfarns@iup.edu

Office Hours: T 8-11am, W 12:30 – 1:30pm and
Friday 10-noon or any time by appt.

Phone: 724-357-3406

Text: The textbook this year for this class is not a published book, but rather a text written by John Southard of MIT. It will be available on our class Moodle site. I will also provide other readings throughout the semester to complement this.

This course aims to provide you with the tools necessary to:

- ³⁵/₁₇ Understand the origin and behavior of sedimentary grains
- ³⁵/₁₇ Understand the physics behind the transport and deposition of sediment
- ³⁵/₁₇ Describe and classify the major types of sedimentary rocks
- ³⁵/₁₇ Identify specific environments of deposition
- ³⁵/₁₇ Appreciate the role of the sedimentary record in geologic history

Mandatory Weekend Fieldtrip: - one day only, not overnight

~~at Osgood Hill and the day in the field. more info to come~~

Exams: There are 2 exams in this class. The exams will cover both what we are doing in lecture and what we are covering in the lab portion of the class.

Exam #1 – Oct 18, Monday, during the Lab time slot

Exam #2 – Dec 15, 8am Final Exam time slot

Lab Exercise			Lecture Schedule	Readings from Southward
Lab 1: Observation Exercise and Sediment Descriptions	Monday	Aug 30	Class Intro and Observation and Sed Intro	Southward pgs 1-36
	Wednesday	Sept 1	Components of Sediment	
No Lab - Labor Day	Monday	Sept 6	No Classes - Labor Day	Southward pgs. 37-71 and 106-114
	Wednesday	Sept 8	Sediment Transport	