

Sedimentology & Stratigraphy (G435)

Fall 2016

Lecture: M/W/F 12:45-1:50, Cramer Hall (CH) S17

Lab: Tu/Th 12:00-1:50, Cramer Hall (CH) 1

Prerequisites: Petrology (G314) and Surficial Processes (G318)

Course Description: Principles of sedimentology and stratigraphy including the description of sedimentary rocks, interpretation of depositional environments, and correlation (stratigraphy).

Instructor: John Bershaw

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Office Hours: 2 hours following class (M and F 1:50-3:50)

TA: Tessa Carlson

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Grading: Exams: 30%; Labs: 30%; Field Trip Report: 30%; Assignments: 10%

Textbook: Principles of Sedimentology and Stratigraphy, 5th Ed., by Sam Boggs, Prentice Hall.
-OR- Sedimentary Geology: An Introduction to Sedimentary Rocks and Stratigraphy, 3rd Ed., by Prothero and Schwab, Freeman Publishing.

WEEK	TOPIC
9/28	Siliciclastic Rocks
10/5	Volcaniclastic and Carbonate Rocks
10/12	Sedimentary Structures
10/19	Environments of Deposition (Deep Marine)
10/26	Environments of Deposition (Marginal Marine)
11/2	Environments of Deposition (Continental)
11/9	Bio/Chrono/Magneto Stratigraphy
11/16	Seismic Stratigraphy
11/23	Basin Evolution
11/30	Review

Field Trip: A two night camping trip to the east Cascades from Oct 14-16. This is required.

Final Examination: Scheduled for 12:30 pm on Monday, December 5th. The final is cumulative but emphasizing later material.