LEARNING OUTCOMES
The course covers the fundamental concepts of sedimentary geology. Students who successfully complete this course will:

1. Be able to identify, classify and describe the major rocks, minerals, textures and architectures of sedimentary strata as examined in the laboratory and field.
2. Become proficient in the collection of sedimentary and stratigraphic data from field relationships, hand samples, and petrographic observations.
3. Understand the principal mechanisms and settings of sediment deposition and sedimentary basin formation.
4. Be able to interpret the origin and significance of different stratigraphic architectures and sediment compositions in the context of sediment supply, accommodation, relative sea-level change, subsidence and tectonic setting.
5. Develop skills of inquiry-based learning.

SCHEDULE
Lectures: Mondays and Wednesdays 2:20-3:35 pm, EWS 209
Labs: Monday 3:55-6:55 pm (001) or Wednesday 10:50 am-1:50 pm (002), EWS 208
Field Trip: Over the course of the semester, there is a field trip that will occur outside of the usual lab meeting time. This field trip is mandatory unless advance notice and a university-recognized excuse are provided. In exchange for these commitments outside of normal class time, a few class and lab meetings will be shortened or omitted.
   Appalachian Basin: October 9-10 (roughly). Departure and return times TBA. We will be camping and using departmental gear, although personal clothing and sleeping bag/pad will be required. They may be rented from the Strom. Inform your employers, other profs., etc. now.
Final Exam: Wednesday, December 7, 12:30pm

REQUIRED RESOURCES
Prothero & Schwab’s Sedimentary Geology: An Introduction to Sedimentary Rocks and Stratigraphy, W.H. Freeman & Co., Reading assignments will be distributed periodically.
Field book, grain-size card, hand lens, rock hammer. Erica will assist you with their selection and purchase upon request.

GRADES
Mid-Term: 15%, Final Exam: 20%. The final is mandatory and will be cumulative.
Quizzes & Homework: 10% Expect a quiz or assignment every couple of weeks.
Stratigraphy Project: 15%
Labs & Lab Exams, including field trip participation and lab assignments: 40%