Textbooks:
EARTH STRUCTURE: AN INTRODUCTION TO STRUCTURAL GEOLOGY AND TECTONICS
Author: Van der Pluijm & Marshak

BASIC METHODS OF STRUCTURAL GEOLOGY  Author: STEPHEN MARSHAK
ISBN: 0131439820  Publisher: PRENTICE HALL

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Materials, including this syllabus, lecture/reading schedule, & assignments, will be available on E-learning in Canvas

Course objectives
Introduce you to a wide variety of structures and rock fabrics formed at range of scales, temperature/depth conditions, and tectonic settings
Provide a qualitative and quantitative understanding of the forces and stresses responsible for the development of geologic structures
Provide the background necessary for the kinematic interpretation of structures and strain observed in rocks
Expand your knowledge gained about structures, strain, and stress to a larger scale and place it in framework of a range of plate tectonic settings
Topics to be covered are grouped under the following main headings:

- Stress
- Strain
- Rheology
- Faulting & brittle deformation
- Ductile-plastic strain
- Tectonics
- Deformation patterns in contractional, extensional, & strike-slip settings

Fieldtrip (required)
Five-day trip to the Appalachians
Tentative dates: April 2-6 (Thursday-Monday)
Assignment from the fieldtrip will be included in Lab grade

Exams
Will be held during class time and will consist of a variety of different types of questions, ranging from multiple choice, fill in the blank, short answer to calculations and half-page explanations.

There will be three exams during the semester and a cumulative final exam during finals week

Material for exam will be covered in lecture. In some instances, however, I may assign specific reading topics for which you will be responsible. Any such instances will be clearly communicated.

Course grading – tentative grade breakdown
45% Three in-class exams during term
   Lowest score 10%, other two exams each 17.5%
20% Final Exam
30-35% Lab assignments
0-5% Quizzes