

**EARTH & ENVIRONMENTAL SCIENCES 440
STRUCTURAL GEOLOGY AND TECTONICS
Spring Semester 2010; revised 3/9/10**

Instructor: Carol Stein
Office: SES 2472
Telephone: 312-996-9349
Office hours: Monday 12:30-2:30 PM, Thursday 1:30-2:30 PM, or by appointment
E-mail: cstein@uic.edu

LECTURES: 11-11:50 AM Tuesday & 11 AM-12:50 PM Thursday;
Labs: noon-1:50 PM on Thursday, ALL in 2418 SES.

TWO REQUIRED BOOKS: van der Pluijm & Marshak, *Earth Structure*, SECOND EDITION, W.W. Norton & Company and

LAB BOOK Rowland, Duebendorfer & Schiefelbein, *Structural Analysis and Synthesis*, THIRD EDITION, Blackwell Publishing

GRADES: **REVISED!!!!** Midterms=three tests during the term, Test 1 and 2=15% each; Test 3=20%; Term Paper (& outline + presentation)=10%; Lab work + Homework=40%; Grades: A ≥ 85%; B ≥ 75%; C ≥ 65%; D ≥ 55%; F < 55%.

LABORATORY: **ON TUESDAYS BRING LAB BOOK.** You will be expected to have read the assigned material prior to lab. The written lab is due on the following Tuesday at 11 AM. **Late labs will only receive 50% credit. No labs will be accepted after it has been graded.**

FIELD TRIP: There will be a field trip to Baraboo, WI April 16-17. There will be some additional costs for transportation, food, and lodging.

ATTENDANCE: Attendance for the lab is required and students are expected to stay for the full two hours. Attendance for lectures is not mandatory. However, attendance will be taken at the beginning of each lecture. Excellent attendance records may be considered as extra credit towards the final grade.

ACADEMIC INTEGRITY: Academic dishonesty will not be tolerated. In all work you must adhere to the guidelines regarding academic honesty as described in the UIC Student Handbook. Any student caught and proven to have committed an act of academic dishonesty in this class will receive a zero for the particular item, will fail this course, and may result in a recommendation to your college for dismissal from the University. Students are expected to turn in their own work. Students may discuss homework/lab problems with classmates, but copying is considered academic dishonesty. Similarly, it is academic dishonesty if you allow your work to be copied and then it is submitted for grade. Academic dishonesty includes, but is not limited to, obtaining solutions to homework/labs from any source (including the internet or copies of homework solutions from previous years), and obtaining copies of solutions manuals for instructors.

TERM PAPER: Each student should choose a relatively small geographical area and show how the structures in a given region are used to determine its geological history. It should be at least 10 pages of text (double spaced; point size=12; 1" margins) plus references (≥ 8 papers published on or after 1980) and figures. Students should submit a topic, in writing, and have it approved by March 11. No two students may do the same topic. Outlines for the paper must be submitted by April 1 (worth 10% of the paper grade). The paper must be submitted by Friday May 7 at noon. The student will orally present the paper during the last week of classes.

STUDENTS WITH DISABILITIES: Students with disabilities who require accommodations for access and participation in this course must be registered with the Office of Disability Services (ODS). Please contact ODS at 312-413-2183 (voice) or 312-413-0123 (TTY).

EARTH & ENVIRONMENTAL SCIENCES 440- SPRING 2010 OUTLINE

Revised 3/9/10

Lecture chapters refer to van der Pluijm and Marshak

Lab chapters (RDS) to Rowland, Duebendorfer, and Schiefelbein

TUES. Lecture	TUES. Lab	THURS. Lecture	HOMEWORK INFORMATION
Jan 12 Ch 1	Jan 12 RDS Ch 1 #4,6,8 + worksheet	Jan 14 Ch 2	
Jan 19 Ch 3	Jan 19 RDS Ch 2 #2-4	Jan 21 Ch 3	
Jan 26 Ch 3	Jan 26 RDS Ch 13 #1-4,7,8	Jan 28 Ch 4	
Feb 2 Ch 4	Feb 2 RDS Ch 3 ALL	Feb 4 Ch 5	<i>Homework from RDS Ch 14 #1,2 due 2/4 at the beginning of class</i>
Feb 9 Ch 6	Feb 9 RDS Ch 4 #1-4	Feb 11 Test 1	<i>Read RDS Ch 12 by 2/9</i>
Feb 16 Ch 6	Feb 16 RDS Ch 5 #1,3,5,6,8,10,11	Feb 18 Ch 7	
Feb 23 Ch 7	Feb 23 RDS Ch 6 #1-4	Feb 25 Ch 7	
Mar 2 Ch 8	Mar 2 RDS Ch 7 #1,2	Mar 4 Ch 9	
Mar 9 Ch 9	Mar 9 RDS Ch 8 #1-5	Mar 11 Ch 10	<i>Term paper topic approval by Mar 11</i>
Mar 16 Ch 11	Mar 16 RDS Ch 9 #1,3-6	Mar 18 Test 2	Lab from Ch 9 due April 1st
VACATION WEEK OF MARCH 22-26			
Mar 30 No class	Mar 30 no class	Apr 1 Ch 12	<i>Outline of paper by Ap 1 Read RDS Ch 16 by Mar 30 Homework- RDS Ch 10 #2,4,5,6 may be done in groups & due April 6th</i>
Apr 6 Ch 13	Apr 6 RDS Ch 17 #1-5	Apr 8 Ch 14	<i>Read vdP & M Ch 15 by 4/8</i>
Apr 13 Ch 16	Apr 13 no lab/some lect.	Apr 15 Ch 17	APRIL 16-17 FIELD TRIP STUDENT PRESENTATION DURING TRIP
Apr 20 Ch 18-19	Apr 20 Lecture	Apr 22 SP	Thursday April 22nd student presentations (SP) of term papers
Apr 27 SP	Apr 27 SP	Apr 29 Test 3	<i>Student presentations of term papers</i>

NO FINAL EXAM During finals week; **Term Paper due by Friday May 7, 2010 at NOON.**

EXTRA CREDIT- May be handed in between April 20-May 7 at NOON.

Each worth one lab: Lab 11 and/or Lab 15 (problems 1-3) and/or Lab 17 (problems 6-9)

**** ANY CHANGES TO THIS SCHEDULE WILL BE ANNOUNCED IN CLASS ****

Approximate dates for lecture topics are given.