

**EVOLUTION OF THE EARTH (HISTORICAL GEOLOGY) 5-109, 4 CREDITS, FALL 2009.
LECTURE AND LAB SYLLABUS**

Instructors: Dan Lehrmann, Office: Harrington -315. Office hours: 8:00-10:20 MWR.
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Texts: Lecture: Levin, The Earth Through Time; 8th ed.
Lab: Frey et. al., Earth History
Supplementary Lab Text: (Available at book store)

Class Hours: Lecture: 1:50-2:50 MWF, Halsey 107.
Lab Section 001: 10:20-12:30 R; Harrington 114
Lab Section 002: 8:00-10:10 F; Harrington 114

Course Objectives:

- 1) Learn the history and development of geologic science and fundamental stratigraphic principles. Understand the scientific method and be able to formulate and evaluate multiple working hypotheses.
- 2) Develop a general understanding of sedimentologic, stratigraphic, and paleontologic concepts required to decipher Earth history.
- 3) Gain an understanding of global geologic processes and their impact on shaping of the Earth.
- 4) Learn the basic geological history of the Earth with emphasis on North America. Learn the basic history and evolution of life.

***Summary of Course Schedule:**

<u>Lecture:</u>	<u>Levin</u>		<u>Point value</u>
9-9 to 10-5	Chapters 1-5	Exam: 10-5	100
10-7 to 10-30	Chapters 6-8, 10	Exam: 10-30	100
11-2 to 12-16	Chapters 9-15	Exam: 12-16	100
Pop-quizzes	10 quizzes	during lecture	extra credit*
<u>Lab:</u>	<u>Frey et. al.</u>		
9-10 to 9-25	Chapters 1,2	Quiz: 9-24/24	30 "rocks and minerals quiz"
9-24 to 10-16	Chapters 3, 4,6,7	Quiz: 10-15/16	30 "maps quiz"
10-22 to 10-30	Baraboo	Quiz 10-29/30	60 "Baraboo field geology quiz"
11-5 to 12-11	Chapters 8-11,13	Quiz: 12-10/11	30 "fossils quiz"
total:			450

Grading:

Scores will not be curved. Letter grades will be assigned according to the following averages: A (93-100), A- (90-92), B+ (87-89), B (83-86), B- (80-82), C+ (75-79), C (70-74), D (60-69), F (<60)

Failure to attend lecture or lab regularly will result in assignment of reduced or failing grade. *Attendance will be kept in lecture via "random" pop-quizzes.

Study Sessions for Lecture Exams:

One hour study sessions (question/ answer) will be held in evening sessions prior to exams.

Make Up Exams:

All make-up exams will be given on Dec 16, tentatively at 5:30 p in Harrington -114.

Field Trip:

A 1 day field trip to **Baraboo and subsequent quiz is a required part of this course. We will go Sat. October 24th.** Students who are unable to attend the field trip (e.g. physical disability) will be allowed to gain equivalent credit by writing a term paper. **Arrangements must be made in advance.**