

ENV-220

Earth through Time

4 Credits

Instructor : Dr. Marty Becker **e-mail**: beckerm2@wpunj.edu

Office : Science Hall 450 **Phone Ex**: 3409

Text : *The Earth Through Time*, 9th ed., By: Harold Levin, John Wiley and Sons Inc., 562p.

Lecture Course Outline

Class Topic Text Reading

1. Earth Origin and Age **Chapts. 1-4**
2. Sedimentary Environments, Sediment
Grains/Sedimentary Structure
3. Non-marine environments
4. Marine Environments (Shallow and Deep)
- 5. Exam 1**
6. Paleontology, Index Fossils, Biostratigraphy
7. Dating Geologic Materials
8. Early Life and Evolution Chapts. 5-9

9. Exam 2

10. Paleozoic Life Chapt. 10-18

11. Mesozoic Life

12. Cenozoic Life

13. Exam 3

14. Dinosaurs at the American Museum of Natural History (Student's Choice)

15. Field Trip- Geology of northwestern NJ and Eastern PA (Saturday)

16. Paleoecology of field trip fossils (Meet in Lab)

17. Field Trip-Economic Minerals-Sterling Hill Mine (TBA)

18. Field Trip-Mesozoic Geology of New Jersey (Saturday)

Laboratory Exercises: *To be distributed during lab class**

1. Minerals and Rocks Review

2. Sedimentary Structures and Sieve Analysis

3. New Jersey Geologic Map

4. Relative and Absolute Dating

5. Fossil Preservation and Biostratigraphy

6. Fossil Classification

7. Dinosaurs at the American Museum of Natural History (Student's Choice)

8. Field Trip-Geology of northwestern NJ and Eastern PA (Saturday)

9. Paleoecology of Field Trip Fossils

10. Field Trip-Economic Minerals-Sterling Hill Mine (TBA)

11. Field Trip-Mesozoic Geology of New Jersey (Saturday)

12. Lab Practical

Grades

2 Examinations 200 points

3 Lab Exercises and Attendance 100 points Group Field Trips 100 points

Lab Practical 100 points Final exam 100 points

Your total grade is the average compilation of these items.

You may drop the lowest exam grade.

This does not include the final exam.

Grades :

A = 91 and above -----C+= 75-78

A- = 89-90 -----C = 71-74

B+ = 85-88 -----C- = 69-70

B = 81-84 -----D = 68-60

B- = 79-80 -----F = 59 or less

Laboratory Attendance: Attendance of all labs is mandatory. No exceptions! There are no lab make ups. I will be randomly collecting three lab exercises for grading during the semester. Your lab grade will be based on attendance and these graded exercises.

**** Each collected lab report is worth 15 points for a total of 45 points.

Attendance of the remaining labs where no lab report is collected is worth a total of 55 points.

******Field Trips** : Attendance of All Three Group Field Trips is **mandatory!**
****These trips are worth a total of 100 points.

Other General Guidelines:

1. Attendance of all lectures is highly recommended. I will not be teaching directly from the textbook.

There is a direct correlation between students with good attendance and those will perform well in ENV-220.
2. All my classroom notes will be on file in the Science Enrichment Center.
3. Exam Make Ups: All make up exams are with my approval and will take place after the final exam is given.
4. All late assignments to be graded will be assessed a penalty of one letter grade per day late.
5. Turn off all cell phones and pagers during class.
6. Be courteous and a good listener to those who are speaking during class and lab.
7. Your work schedule should not conflict with scheduled course time.
8. Academic dishonesty will not be tolerated! You will receive the maximum penalties in accordance with the WPU student handbook.

Science Enrichment Center Coupons

You will be given 1 point for each 1 hour and 15 minute visit to the Science Enrichment Center for extra help and tutoring. A maximum of 10 visits is permitted during the semester. All accumulated points will be added to your final course grade.

Best wishes for a great semester. If you have any questions or need extra help during the semester please stop by after class or during my office hours.

Enjoy! Dr. Becker