

Taft College

Geology 10: Introduction to Physical Geology

Summer 2008

Syllabus



Course Goal:

Welcome to Geology 10. My name is Evie Einstein.

ONLINE STUDENTS: If you are taking this course online, go to <http://etudes-ng.fhda.edu/portal> to login. OFFLINE STUDENTS: If you are taking this course offline, assignments will be emailed or mailed to you.

My goal for you during this course is to get you to love rocks as much as I do. It is also my hope that students will gain an awareness and understanding of their natural surroundings and will be able to view their world in a whole new light!

Since not every learner taking physical geology will go on to be a geologist, this course is designed to be of use to everyone desiring a broad geological education. However, there are those of you who will go on to work as geologists or in related fields. Therefore, enough rigor has been incorporated to provide a firm basis for further study.

Text & Lab Manual:

Tarbuck, Edward J., and Lutgens, Frederick K. Earth: An Introduction to Physical Geology. 8th ed. Upper Saddle River: Pearson Education, Inc., 2005.
ISBN: 0131148656 - Available for rental from the Taft College Bookstore.

Ruhle, James L. Geology Laboratory Manual for Distance Education. Dubuque: Kendall/Hunt Publishing Company, 2000.
ISBN: 0757504809 - Available for purchase from the Taft College Bookstore.

Weekly Assignments:

Each week students will be required to complete and return to your instructor, specific chapter concept quizzes and/or lab lesson multiple-choice questions (see Schedule in Syllabus). These are open-book. I encourage you to work with as many resources as you like, i.e. your text and its appendices, other Geology books, the Internet, your friends, your instructor, etc. Please email me with any weekly assignment questions.



Midterm & Final Projects:

This a chance to explore geological topics that interest you. Your project can be a research paper, poster, story, journal, photo journal, Internet discovery, Webquest, topographic map, etc. It is up to you to decide on a topic and plan your research. Please let me know what you are planning to explore and maybe I can offer other ideas for you to consider. Or if you do not have any ideas . . . I can help with that too! NOTE: Your midterm and final project outlines and project plans must be approved !!

Grades:

Your job in this course is to have fun – or at least try to be engaged with Geology. I would love to give you all an "A" in this course. My hope is that everyone wants that "A." To do this, you must successfully complete the following:

- Chapter Concept Quizzes – 33% of total grade (33 points maximum)
- Lab Lesson Multiple-Choice Questions 33% of total grade (33 points maximum)
- Final Project - 33% of total grade (33 points maximum)

TOTAL POINTS:

- A = 90-100
- B = 80-89
- C = 70-70
- D = 60-69
- F = 59 and below

If I see that you are falling behind on your commitment to get an A in this course, I will contact you. You are welcome to contact me via email, as well.



Contact Me:

Email: EinsteinE3@aol.com or EEinstein@taft.org

SCHEDULE:

WEEK 1 (June 16-22, 2008)

TEXT: Read Chapter 1: An Introduction to Geology

ATTACHED: Read Chapter 1 Summary

QUIZ: Complete Chapter 1 Concept Quiz

LAB MANUAL: Read Lab Lesson 1: Topographic Maps

ASSIGNMENT: Complete Lab Lesson 1 Multiple-Choice Questions

TEXT: Read Chapter 2: Plate Tectonics: A Scientific Revolution Unfolds

ATTACHED: Read Chapter 2 Summary

QUIZ: Complete Chapter 2 Concept Quiz

LAB MANUAL: Read Lab Lesson 2: Structural Geology

ASSIGNMENT: Complete Lab Lesson 2 Multiple-Choice Questions

WEEK 2 (June 23-29, 2008)

TEXT: Read Chapter 3: Matter and Minerals

ATTACHED: Read Chapter 3 Summary

QUIZ: Complete Chapter 3 Concept Quiz

LAB MANUAL: Read Lab Lesson 4: Minerals

ASSIGNMENT: Complete Lab Lesson 4 Multiple-Choice Questions

TEXT: Read Chapter 4: Igneous Rocks

ATTACHED: Read Chapter 4 Summary

QUIZ: Complete Chapter 4 Concept Quiz

LAB MANUAL: Read Lab Lesson 6: Igneous Rocks

ASSIGNMENT: Complete Lab Lesson 6 Multiple-Choice Questions

WEEK 3 (June 30-July 6, 2008)

TEXT: Read Chapter 5: Volcanoes and Other Igneous Activity

ATTACHED: Read Chapter 5 Summary

QUIZ: Complete Chapter 5 Concept Quiz

LAB MANUAL: Read Lab Lesson 5: Volcanoes

ASSIGNMENT: Complete Lab Lesson 5 Multiple-Choice Questions

TEXT: Read Chapter 6: Weathering and Soil

ATTACHED: Read Chapter 6 Summary

QUIZ: Complete Chapter 6 Concept Quiz

TEXT: Read Chapter 7: Sedimentary Rocks

ATTACHED: Read Chapter 7 Summary

QUIZ: Complete Chapter 7 Concept Quiz

LAB MANUAL: Read Lab Lesson 7: Sedimentary Rocks

ASSIGNMENT: Complete Lab Lesson 7 Multiple-Choice Questions

WEEK 4 (July 7-13, 2008)

TEXT: Read Chapter 8: Metamorphism and Metamorphic Rocks

ATTACHED: Read Chapter 8 Summary

QUIZ: Complete Chapter 8 Concept Quiz

LAB MANUAL: Read Lab Lesson 8: Metamorphic Rocks

ASSIGNMENT: Complete Lab Lesson 8 Multiple-Choice Questions

TEXT: Read Chapter 9: Geologic Time

ATTACHED: Read Chapter 9 Summary

QUIZ: Complete Chapter 9 Concept Quiz

TEXT: Read Chapter 10: Crustal Deformation

ATTACHED: Read Chapter 10 Summary

QUIZ: Complete Chapter 10 Concept Quiz

TEXT: Chapter 11: Earthquakes

ATTACHED: Read Chapter 11 Summary

QUIZ: Complete Chapter 11 Concept Quiz

LAB MANUAL: Read Lab Lesson 3: Earthquakes

ASSIGNMENT: Complete Lab Lesson 3 Multiple-Choice Questions

WEEK 5 (July 14-20, 2008)

TEXT: Read Chapter 12: Earth's Interior

ATTACHED: Read Chapter 12 Summary

QUIZ: Complete Chapter 12 Concept Quiz

TEXT: Read Chapter 13: Divergent Boundaries: Origin and Evolution of The Ocean Floor

ATTACHED: Read Chapter 13 Summary

QUIZ: Complete Chapter 13 Concept Quiz

TEXT: Read Chapter 14: Convergent Boundaries; Mountain Building and the Evolution of Continents

ATTACHED: Read Chapter 14 Summary

QUIZ: Complete Chapter 14 Concept Quiz

TEXT: Read Chapter 15: Mass Wasting: The Work of Gravity

ATTACHED: Read Chapter 15 Summary

QUIZ: Complete Chapter 15 Concept Quiz

WEEK 6 (July 21-27, 2008)

TEXT: Read Chapter 16: Running Water

ATTACHED: Read Chapter 16 Summary

QUIZ: Complete Chapter 16 Concept Quiz

LAB MANUAL: Read Lab Lesson 9: Surface Water

ASSIGNMENT: Complete Lab Lesson 9 Multiple-Choice Questions

TEXT: Read Chapter 17: Groundwater

ATTACHED: Read Chapter 17 Summary

QUIZ: Complete Chapter 17 Concept Quiz

LAB MANUAL: Read Lab Lesson 10: Groundwater

ASSIGNMENT: Complete Lab Lesson 10 Multiple-Choice Questions

TEXT: Read Chapter 18: Glaciers and Glaciation

ATTACHED: Read Chapter 18 Summary

QUIZ: Complete Chapter 18 Concept Quiz

WEEK 7 (July 28-August 3, 2008)

TEXT: Read Chapter 19: Deserts and Winds

ATTACHED: Read Chapter 19 Summary

QUIZ: Complete Chapter 19 Concept Quiz

TEXT: Read Chapter 20: Shorelines

ATTACHED: Read Chapter 20 Summary

QUIZ: Complete Chapter 20 Concept Quiz

TEXT: Read Chapter 21: Energy and Mineral Resources

ATTACHED: Read Chapter 21 Summary

QUIZ: Complete Chapter 21 Concept Quiz

LAB MANUAL: Read Lab Lesson 11: Surface Geology and Petroleum Fuels

ASSIGNMENT: Complete Lab Lesson 11 Multiple-Choice Questions

LAB MANUAL: Read Lab Lesson 12: Alternative-Energy Systems

ASSIGNMENT: Complete Lab Lesson 12 Multiple-Choice Questions

DISCUSSION: **FINAL PROJECT OUTLINE DUE at the end of Week 7**

WEEK 8 (August 4-7, 2008)

TEXT: Read Chapter 22: Planetary Geology (OPTIONAL)

ATTACHED: Read Chapter 22 Summary (OPTIONAL)

QUIZ: Complete Chapter 22 Concept Quiz (OPTIONAL)

LAB MANUAL: Read Lab Lesson 13: Waste Disposal and Pollution (OPTIONAL)

ASSIGNMENT: Complete Lab Lesson 13 Multiple-Choice Questions (OPTIONAL)

DISCUSSION: **FINAL PROJECT DUE at the end of Week 8**

