

GEOL 1610.001 – Introduction to Geology
Summer 2019, 5W1
Online Lecture and Lab (Combined)

CAREFULLY READ ALL FOUR PAGES OF THIS SYLLABUS. YOU WILL HAVE ACCESS TO THIS COURSE ON CANVAS ON THE FIRST DAY OF CLASS, JUNE 3.

Welcoming Remarks

Welcome! This is online GEOL 1610 – Introduction to Geology. My name is Paul Hudak, and I look forward to working with you this semester. You can find me in Room 320J, Environmental Science Building (ENV), Corner of Mulberry and Avenue C, in Denton. My office hours are Tuesdays and Thursdays, 1:30-3:00 p.m. (or by appointment). Also feel free to contact me by email: hudak@unt.edu.

Readings (Free!)

Textbook: www.geog.unt.edu/~hudak/1610textbook.pdf

Earthshots: <http://earthshots.usgs.gov/earthshots/>

Objectives

As an introductory geology course, to develop an understanding of: Earth's composition and geological processes; interactions between humans and geological processes; and geological hazards.

As a core science course, to: understand and apply methods and appropriate technology to the study of natural sciences; recognize qualitative and quantitative methods of analysis and understand the differences between these approaches and other methods of inquiry; communicate findings, analyses, and interpretations both orally and in writing; identify and recognize the differences among competing scientific theories; demonstrate knowledge of the major issues and problems facing modern science, including issues that touch upon ethics, values, and public policies; and demonstrate knowledge of the interdependence of science and technology and their influence on, and contribution, to modern culture.

Schedule

The course consists of four sections, each requiring readings, lab exercises, and an exam. Click Syllabus in Canvas (upper-left corner of screen) to access the exercises and exams. Some of the exercises involve problems from the textbook. You may check your answers to these problems in the back of the book, but must show your work for credit. Exercises will be available in Canvas from the beginning of the course to their respective due dates. Exams will only be available from 12:01 a.m. – 11:59 p.m. on their respective due dates.

Section 1: June 3-10

Chapter 1 – Introduction to Geology
Chapter 2 – Minerals
Chapter 3 – Intrusive Igneous Rocks
Chapter 4 – Volcanism
Earthshots – About (top button) and Mount St. Helens (Natural Disasters button)

Complete Exercises 1-3 and Exam 1 by 11:59 p.m., June 10

Section 2: June 11-18

Chapter 6 – Sediments and Sedimentary Rocks
Chapter 7 – Metamorphism and Metamorphic Rocks
Chapter 5 – Weathering and Soil
Chapter 15 – Mass Wasting
Chapter 13 – Streams and Floods

Complete Exercise 4 and Exam 2 by 11:59 p.m., June 18

Section 3: June 19-26

Chapter 14 – Groundwater
Chapter 16 – Glaciation
Earthshots – Bear Glacier and Hubbard Glacier (Glaciers button)
Chapter 17 – Shorelines
Chapter 18 – Geology of the Oceans
Chapter 11 – Earthquakes

Complete Exercises 5-6 and Exam 3 by 11:59 p.m., June 26

Section 4: June 27-July 5

Chapter 9 – Earth's Interior
Chapter 10 – Plate Tectonics
Chapter 12 – Geological Structures
Chapter 8 – Measuring Geological Time

Complete Exercises 7-8 and Exam 4 by 11:59 p.m., July 5

Exams consist of 50 multiple choice questions; they will be straightforward and reflect major concepts in the readings. For example, I might ask what processes create soil, but would not expect you to memorize a soil classification system, nor would I ask you about soil types of Canada. Moreover, I might ask about properties of minerals, but would not expect you to recite long mineral formulas.

To review for exams, read and contemplate the summary and review questions at the end of each chapter. See Appendix 2 of the textbook for answers to these questions.

Here are some additional review questions:

www.geog.unt.edu/~hudak/Exam 1 Examples.pdf
www.geog.unt.edu/~hudak/Exam 2 Examples.pdf
www.geog.unt.edu/~hudak/Exam 3 Examples.pdf
www.geog.unt.edu/~hudak/Exam 4 Examples.pdf

Each exam will only cover the readings in its section in the schedule above. For example, you will only be tested on Chapters 9, 10, 12, and 8 in Exam 4.

You may use your textbook and notes, but no other external sources, when taking exams. Once you access an exam, you will have a single 90-minute session to complete it. Please plan ahead and secure a quiet space with a **STRONG AND RELIABLE INTERNET CONNECTION**.

STUDY BEFORE TAKING AN EXAM, OR ELSE YOU WILL RUN OUT OF TIME TRYING TO LOOK UP UNFAMILIAR INFORMATION.

You must take the exams by yourself. Do not share information about the exams with anyone else. Please be aware, Canvas has extensive cheating and plagiarism detection capability. Cheating, plagiarism, and other forms of academic dishonesty are completely unacceptable and have dire consequences (see section on academic dishonesty below).

Grading

Each exam is 100 points, and each exercise is 30 points, for a total of 640 points. A = 576-640, B = 512-575, C = 448-511, D = 384-447, and F = less than 384 points.

Accommodations

The University of North Texas makes reasonable academic accommodation for students with disabilities. If you seek accommodation, first register with the Office of Disability Accommodation (ODA) to verify your eligibility. If a disability is verified, the ODA will provide you with an accommodation letter to be delivered to me to begin a private discussion regarding your specific needs in this course. You may request accommodations at any time; however, ODA notices of accommodation should be provided as early as possible in the semester to avoid any delay in implementation. For additional information see the Office of Disability Accommodation website at <http://www.unt.edu/oda>. You may also contact them by phone at 940-565-4323.

Extra Credit

The Department of Geography and the Environment does not allow extra credit assignments.

Academic Dishonesty

You must not cheat or plagiarize in this course or any course; otherwise, you will receive a 0 on that exam or assignment, and the incident will be reported to the university, which will levy further penalty. According to the UNT catalog, the term "cheating" includes, but is not limited to: (a) use of any unauthorized assistance in taking quizzes, tests, or examinations; (b) dependence upon the aid of sources beyond those authorized by the instructor in writing papers, preparing reports, solving problems, or carrying out other assignments; (c) the acquisition, without permission, of tests or other academic material belonging to a faculty or staff member of the university; (d) dual submission of a paper or project, or resubmission of a paper or project to a different class without express permission from the instructor(s); or (e) any other act designed to give a student an unfair advantage.

The term "plagiarism" includes, but is not limited to: (a) the knowing or negligent use by paraphrase or direct quotation of the published or unpublished work of another person without full and clear acknowledgment; and (b) the knowing or negligent unacknowledged use of materials prepared by another person or agency engaged in the selling of term papers or other academic materials.

Course Courtesy

Student behavior that interferes with an instructor's ability to conduct a course or another student's opportunity to learn is unacceptable and disruptive and will not be tolerated in any instructional forum at UNT. Students engaging in unacceptable behavior will be blocked from the course and referred to the Center for Student Rights and Responsibilities. The Code of Student Conduct can be found at www.unt.edu/csrr.