

GEOL 1610.001 – Introduction to Geology (Online) Summer 2020, 5W1

CAREFULLY READ ALL FOUR PAGES OF THIS SYLLABUS. YOU WILL HAVE ACCESS TO THIS COURSE ON CANVAS ON THE FIRST DAY OF CLASS, JUNE 1.

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. Feel free to contact me by email (hudak@unt.edu), which I read frequently. Alternatively, I can speak with you over the phone or via Zoom if that works better for you.

About Me

I am a professor and undergraduate advisor in the Department of Geography and the Environment at UNT. Originally, I am from northern California, but have also lived in southern California, Wyoming, Pennsylvania, and of course Texas. Prior to coming to UNT in 1991, I received a B.S. in geology from Allegheny College, M.S. in geology from Wright State University, and Ph.D. in geography, emphasis in water resources, from the University of California at Santa Barbara. At UNT, I teach various courses in geology, water resources, and research methods, as well as supervise interns and graduate students. I also have an active research program, with current interests in groundwater monitoring and remediation, environmental geology, and wetland mitigation. My hobbies include observing nature, gardening, fixing up an old truck, and hanging out with my adopted dog.

Readings (Free!)

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

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

Course-Level Objectives

Upon successful completion of this course, students will be able to:

1. Describe the earth's composition and geological processes
2. Analyze interactions between humans and geological processes
3. Apply geological principles to the interpretation of rocks and natural events

Schedule

The course consists of four modules, each requiring readings, assignment(s), a monitored discussion, and a quiz. Some of the assignments involve problems from the textbook. You may check your answers to these problems in the back of the book, but must show your work and express the answer in your own words for credit. Assignments and discussions will be available

in Canvas from the beginning of the course to their respective due dates. Quizzes will only be available from 12:01 a.m. – 11:59 p.m. on their respective due dates.

Module 1: June 1-8

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 Assignments 1-3, Discussion 1, and Quiz 1 by 11:59 p.m., June 8

Module 2: June 9-16

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 Assignment 4, Discussion 2, and Quiz 2 by 11:59 p.m., June 16

Module 3: June 17-24

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 Assignments 5-6, Discussion 3, and Quiz 3 by 11:59 p.m., June 24

Module 4: June 25-July 3

Chapter 9 – Earth's Interior

Chapter 10 – Plate Tectonics

Chapter 12 – Geological Structures

Chapter 8 – Measuring Geological Time

Complete Assignments 7-8, Discussion 4, and Quiz 4 by 11:59 p.m., July 3

Quizzes 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 quizzes, 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 quiz will only cover the readings in its module noted above. For example, you will only be tested on Chapters 9, 10, 12, and 8 in Quiz 4.

You may use your textbook and notes, but no other external sources, when taking quizzes. Once you access a quiz, 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 EACH QUIZ, OR ELSE YOU WILL RUN OUT OF TIME TRYING TO LOOK UP UNFAMILIAR INFORMATION.

You must take the quizzes by yourself. Do not share information about them 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 quiz is 100 points, each assignment is 30 points, and each discussion is 15 points, for a total of 700 points. A = 627-700, B = 557-626, C = 487-556, D = 417-486, and F = less than 417 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.