

GEOL 101 – Introductory Geology: Exploring Planet Earth, Section 003, Spring 2019

M-W 1:00 PM– 2:15 PM, WHI197

Faculty: Dr. Pamela Burnley
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(702) 895-5460
Email: WebCampus

Office Hours: Monday 2:30 - 3:30 PM, Tuesday 9:00 - 10:00 AM, and by appointment

Course Format: Lecture twice a week
Weekly laboratory

Required Textbook: Essentials of Geology by Marshak, 5th edition

Prerequisites: No university prerequisites

Purpose of this Class: This class is designed as an introduction to the physical characteristics and processes of the Earth. We will discuss the inter-relationship of people, society and the Earth in order to better understand our dependence on the finite resources of the planet and how we may live better with an awareness of Earth processes. This class will also convey an understanding of how Earth scientists utilize scientific principles to gain knowledge of the Earth.

Learning Outcomes: After successfully completing this course, students will be able to: 1) Identify common rocks and minerals and place them in the context of the rock cycle; 2) Locate major plate boundaries around the world, and identify the geological processes and features that may accompany those boundaries; 3) Explain the surface processes that have shaped the landscape over geologic time; and 4) Explain the origins and limitations of major renewable and non-renewable resources.

Grading policy: Final grades will be assigned according to the following schedule. The instructor may also elect to curve the **final** grades in the students favor.

<u>Grade</u>	<u>Semester average</u>	<u>Grade</u>	<u>Semester average</u>
A	over 93	C	between 73 and 77
A-	between 90 and 93	C-	between 70 and 73
B+	between 87 and 90	D+	between 67 and 70
B	between 83 and 87	D	between 63 and 67
B-	between 80 and 83	D-	between 60 and 63
C+	between 77 and 80	F	less than 60 (see note 1 below)

Final Grades will be computed as follows:

Three lecture exams (15% each)	45%
Comprehensive final exam	20%
Lecture quizzes/assignments	10%
Laboratory	25%
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	100%

Notes:

1. You **MUST** pass both the lecture and the laboratory in order to pass the course. A grade of F in lab or an average score of less than 60 in lecture will earn an F for the entire course regardless of the numerical average of the two scores.
2. Required reading means that you are responsible for knowing the assigned material. Your instructor may test you on that material even if it has not been covered in lecture.
3. No extra credit will be given.
4. No make-up exams, make-up quizzes, or make-up exercises will be given except as specified in the University Catalog for religious holidays and university-sponsored extracurricular activities.
5. The final exam is required of all students.

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Date	Lecture Topic	Lab Topic	Required Reading (Marshak)
Week 1			
Jan. 23	Introduction, Syllabus, Scientific Method Formation and Structure of the Earth	No Lab	Prelude P.2 Chapter 1
Week 2			
Jan. 28 Jan. 30	Minerals Minerals	Course Introduction/Physical Properties	Chapter 3 Chapter 3
Week 3			
Feb. 4 Feb. 6	Rock Cycle & Igneous Rocks Igneous Rocks	Mineral Identification	Interludes A, C & Chapter 4 Chapter 4
Week 4			
Feb. 11 Feb. 13	Igneous Rocks Exam 1 (Chapters 1,3,4, Prelude P.2, Interludes A, C)	Igneous Rocks	Chapter 4
Week 5			
Feb. 18 Feb. 20	Holiday Volcanism	Mineral and Igneous Rock Identification Quiz	Chapter 5
Week 6			
Feb. 25 Feb. 27	Weathering & Sedimentary Rocks Sedimentary Rocks	Monday Labs Only (Mineral and Igneous Rock Identification Quiz)	Interlude B.2 & Chapter 6 Chapter 6
Week 7			
Mar. 4 Mar. 6	Metamorphic Rocks Geologic Time	Sedimentary Rocks	Chapter 7 Chapter 10
Week 8			
Mar. 11 Mar. 13	Geologic Time Exam 2 (Chapters 5, 6,7,10, Interludes B.2, E)	Metamorphic Rocks	Interlude E
Spring Break March 18 - 25			
Week 9			
Mar. 25 Mar. 27	Rivers Groundwater	Rock Exam	Chapter 14, Interlude F Chapter 16
Week 10			
Apr. 1 Apr. 3	Wind and Deserts Mass Wasting	Topographic Maps	Chapter 17 Chapter 13
Week 11			
Apr. 8 Apr. 10	Earthquakes Earth's Interior	Groundwater	Chapter 8 Interlude D
Week 12			
Apr. 15 Apr. 17	Geologic Structure/Geologic Maps Exam 3 (Chapters 8,14,16,17, 13, Interlude D)	Earthquakes	Chapter 9
Week 13			
Apr. 22 Apr. 24	Geologic Structure/Geologic Maps Tectonics	Geologic Structure	Chapter 9 Chapter 2
Week 14			
Apr. 29 May 1	Energy & Mineral Resources Energy & Mineral Resources	Plate Tectonics	Chapter 12 Chapter 12
Week 15			
May 6 May 8	Global Change in the Earth System Global Change in the Earth System	Applied Geology in Southern Nevada	Chapter 19 Chapter 19
FINAL EXAM		Monday May 13 1:00 PM-3:00 PM	Cumulative over all topics in course

Changes to Syllabus: The above lecture schedule is tentative; adjustments to the schedule of topics and reading assignments may be made in accordance with the rate of progress in the classroom. The instructor also reserves the right to change a lecture topic to reflect world events. Students will be provided with an updated syllabus if significant changes are necessary.

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UNLV Academic Policies

Students taking this course are required to be familiar with the UNLV academic policies at the URL shown below.

Please see this link for select, useful information for students:

https://www.unlv.edu/sites/default/files/page_files/27/SyllabiContent-MinimumCriteria-2018-2019.pdf

GEOL 101 Policies

- 1. Participation** - If you are confused about any of the material presented, please ask questions in class for clarification and further explanation. You will not be alone in your confusion. There are many ways to present this material, and I will attempt to find one that works for you. If you do not feel comfortable asking questions in class, please contact your lab instructor or myself.
- 2. Attendance** - It is important that you attend class daily because we cover a lot of material, and I will regularly provide guidance regarding reading assignments and exams. You are responsible for all material covered in lecture no matter what causes your absence. If you miss a lecture, get the notes from a classmate. Topics covered may vary from the schedule somewhat, but the exam dates will remain fixed.
- 3. Missed work** - Exams, quizzes, assignments, and labs missed due to absence will receive a grade of zero unless you provide notification of an exception for a religious holiday or university-sponsored extracurricular activity as specified in the University Catalog. In the case of an excused absence, the nature and format of the make-up exam will be at the instructors' discretion.
- 4. Laboratory** - You must be enrolled in a laboratory section of GEOL 101 for zero credit hours. The lab will count for 25% of your final grade, but if you fail the lab, then you will fail the entire course. Also, if you miss three lab sessions or fail to turn in three lab assignments or some combination of the two you will fail the lab. Required field trips may be held during your lab meeting. If you are enrolled in a night lab, the field trips will be held on Saturdays or Sundays. Talk to your lab instructor about these and plan accordingly.
- 5. First week schedule** - Unless stated otherwise on the course syllabus, the GEOL 101 laboratory meets the first week of each semester.
- 6. Administrative Drops/Classroom Conduct** - You are required to be familiar with university policies and procedures in the current UNLV Undergraduate Catalog. Importantly, we follow the policies on Administrative Drops/Classroom Conduct as stated in the most recent UNLV Undergraduate Catalog. Any student that does not comply with these requirements, and conducts themselves in a manner that is disruptive and interferes with the right of other students to learn, or of the instructor to teach will be administratively dropped from the course.
- 7. Non-enrolled guests** - Students are not allowed to bring guests, including children to either lecture or laboratory.
- 8. Academic Misconduct** - This course operates under a "zero tolerance" policy. Any student who commits cheating or plagiarism will receive a grade of F for the class.