

# GEOL 102 – Historical Geology: Earth & Life Through Time, Sec 1001, Spring 2016

T-R 8:30 AM– 9:45 AM, WRI C151

- Faculty:** Dr. Joshua Bonde  
123 LFG  
895-1774  
Email: joshua.bonde@unlv.edu
- Office Hours:** Monday 12:00-2:00 p.m. and by appointment
- Course Format:** Lecture twice a week  
Weekly laboratory
- Required Textbook:** Evolution of the Earth by Prothero and Dott, 8th edition: I also recommend you read at your leisure: Annals of the Former World by John McPhee
- Prerequisites:** Geology 101 or equivalent

**Purpose of this Class:** This class is designed as an introduction to the major evolutionary and geologic events on planet Earth. You will become reacquainted with basic geologic principles and familiar with the geologic time scale. We will then survey the interrelationships of life and geology through time.

**Learning Outcomes:** After successfully competing this course, students will be able to: 1) be comfortable with the geologic time scale and geologic time; 2) understand the relationship between life and the Earth through time; 3) understand the principles of geologic maps and plate tectonics; and 4) explain the formation and history of the Earth and the hypotheses which have led to our current understanding of Earth processes.

**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 ( <b>see note 1 below</b> )

## Final Grades will be computed as follows:

Three lecture exams (15% each)	45%
Comprehensive final exam	20%
Lecture quizzes/assignments	10%
Laboratory	25%
	<hr/>
	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 a grade 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 unless you provide a written medical, military, or university excuse. So plan to attend class.

# GEOL 102 – Historical Geology: Earth & Life Through Time, Sec 1001, Spring 2016

T-R 8:30 AM– 9:45 AM, WRI C151

## CLASS SCHEDULE – GEOL 102-Spring 2015

Date	Lecture Topic	Lab Topic
Week 1		No Labs
Jan. 19	Introduction, Syllabus, Scientific Method	
Jan. 21	Geologic Time/ Geologic Time Scale	
Week 2		Igneous and Metamorphic Rocks
Jan. 26	Floods, Fossils, and Heresies/ Time Scale Quiz	
Jan. 28	Evolution	
Week 3		Sedimentary Rocks and Structures
Feb. 2	Relative Geologic Time and Stratigraphy	
Feb. 4	Numerical Dating of the Earth	
Week 4		Seafloor Spreading/Plate Tectonics
Feb. 9	Origin and early evolution of the Earth	
Feb. 11	Plate Tectonics	
Week 5		No Labs
Feb. 16	<b>Exam 1</b>	
Feb. 18	Precambrian History	
Week 6		Frenchman Mountain Exercise
Feb. 23	Early Life	
Feb. 25	Earliest Paleozoic Geology	
Week 7		Paleozoic Fossils
Mar. 1	Earliest Paleozoic Life	
Mar. 3	Later Ordovician	
Week 8	<b>March 12: Mid-semester Grades</b>	Geologic Maps
Mar. 8	Middle Paleozoic Geology	
Mar. 10	Middle Paleozoic Life	
Week 9		Simple Basin Analysis
Mar. 15	<b>Exam 2</b>	
Mar. 17	Late Paleozoic Geology	
Week 10		Mollusks and Cephalopods
Mar. 22	Spring Break	
Mar. 24	Spring Break	
Week 11	<b>April 3<sup>rd</sup> Final Day to Drop</b>	No Labs
Mar. 29	Late Paleozoic Marine Life	
Mar. 31	Late Paleozoic Terrestrial Life	
Week 12		Pleistocene Climate
Apr. 5	Triassic-Jurassic Geology	
Apr. 7	Triassic-Jurassic Life	
Week 13		Extinction
Apr. 12	Cretaceous Geology	
Apr. 14	Cretaceous Life	
Week 14		Group Projects
Apr. 19	<b>Exam 3</b>	
Apr. 21	Nevada in the Time of Dinosaurs	
Week 15		Group Projects
Apr. 26	Cenozoic Geology	
Apr. 28	Cenozoic Life	
Week 16		No Labs
May 3	The Pleistocene	
May 5	Review and Catch-up	

**Final Exam Thursday May 12<sup>th</sup> 8:00 am**

**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.

# GEOL 102 – Historical Geology: Earth & Life Through Time, Sec 1001, Spring 2016

T-R 8:30 AM– 9:45 AM, WRI C151

## Logistics and Policies

**1. Participation** - Students in this class will have different backgrounds and levels of educational training. As a result, you may find some material difficult, feel that you are already familiar with some of the concepts, or have personal experiences that can inform us all. Whatever your situation, please share your position with us through class participation. Most importantly, however, if you are confused about a concept, **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 provide guidance for reading assignments and exam questions regularly. You are responsible for all material covered in lectures 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. If you are absent from a scheduled exam in either lecture or lab without a written medical, military, or university excuse, you will receive a zero for that exam. If a make-up exam is required due to the excuses listed above, the nature of the make-up exam will be at the instructors' discretion. The final exam is required of all students.

**3. Religious Holidays** - Any student missing class quizzes, examinations, or any other class or lab work because of observance of religious holidays shall be given an opportunity during that semester to make up missed work. The make-up will apply to the religious holiday absence only. It shall be the responsibility of the student to notify the instructor no later than the end of the first two weeks of classes, January 29<sup>th</sup>, 2016, of his or her intention to participate in religious holidays which do not fall on state holidays or periods of class recess. For additional information, please visit: <http://catalog.unlv.edu/content.php?catoid=6&navoid=531>.

**4. Official Extracurricular Activity** - All students who represent UNLV at any official extracurricular activity have the opportunity to make up an assignment. However, you must provide official written notification to me at least 1 week prior to the missed class(es).

**5. Laboratory - Concurrent enrollment in a laboratory section is required.** You must enroll in a laboratory section of GEOL 102 for zero credit hours. The lab is 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 will 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 instructors about these and plan accordingly.

**6. First week schedule** - Unless stated otherwise on the course syllabus, the GEOL 102 laboratory does not meet the first week of the semester.

**7. Learning Environment** - The classroom is intended to be a place of learning. As such, and as specified in the UNLV Undergraduate Catalog, no pagers, cell phones, or other potentially disruptive devices are allowed in either lecture or laboratory. Student usage of laptop computers, recording equipment, or similar devices is only allowed with explicit permission of the instructor, and is restricted to taking notes for this course. Disruptive behavior including, but not limited to those described above, chatting, sleeping, watching video, playing games or texting may result in an administrative withdrawal from the course.

**8. 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.

**9. Non-enrolled guests** - Students are not allowed to bring guests, including children to either lecture or laboratory.

# GEOL 102 – Historical Geology: Earth & Life Through Time, Sec 1001, Spring 2016

T-R 8:30 AM– 9:45 AM, WRI C151

**10. Academic Misconduct** - Academic integrity is a legitimate concern for every member of the campus community; all share in upholding the fundamental values of honesty, trust, respect, fairness, responsibility and professionalism. By choosing to join the UNLV community, students accept the expectations of the Academic Misconduct Policy and are encouraged when faced with choices to always take the ethical path. Students enrolling in UNLV assume the obligation to conduct themselves in a manner compatible with UNLV's function as an educational institution.

An example of academic misconduct is plagiarism. Plagiarism is using the words or ideas of another, from the Internet or any source, without proper citation of the sources. See the Student Academic Misconduct Policy (approved December 9, 2005) located at: <http://studentconduct.unlv.edu/misconduct/policy.html>.

This course operates under a "zero tolerance" policy, meaning that **if a student commits cheating or plagiarism they will receive a grade of F for the class.**

**11. Disability Resource Center (DRC)** - The UNLV Disability Resource Center (SSC-A 143, <http://drc.unlv.edu/>, 702-985-0866) provides resources for students with disabilities. If you feel that you have a disability, please make an appointment with a Disabilities Specialist at the DRC to discuss what options may be available to you.

If you are registered with the UNLV Disability Resource Center, bring your Academic Accommodation Plan from the DRC to me during office hours so that we may work together to develop strategies for implementing the accommodations to meet both your needs and the requirements of the course. Any information you provide is private and will be treated as such. To maintain the confidentiality of your request, please do not approach me before or after class to discuss your accommodation needs.

**12. Incomplete Grades** - The grade of I – Incomplete – can be granted when a student has satisfactorily completed three-fourths of course work for that semester/session but for reason(s) beyond the student's control, and acceptable to the instructor, cannot complete the last part of the course, and the instructor believes that the student can finish the course without repeating it. The incomplete work must be made up before the end of the following regular semester. If course requirements are not completed within the time indicated, a grade of F will be recorded and the GPA will be adjusted accordingly. Students who are fulfilling an Incomplete do not register for the course but make individual arrangements with the instructor who assigned the I grade.

**13. Writing Center** - One-on-one or small group assistance with writing is available free of charge to UNLV students at the Writing Center, located in CDC-3-301. Although walk-in consultations are sometimes available, students with appointments will receive priority assistance. Appointments may be made in person or by calling 895-3908. The student's Rebel ID Card, a copy of the assignment (if possible), and two copies of any writing to be reviewed are requested for the consultation. More information can be found at: <http://writingcenter.unlv.edu/>

**14. Tutoring** - The Academic Success Center (ASC) provides tutoring and academic assistance for all UNLV students taking UNLV courses. Students are encouraged to stop by the ASC to learn more about subjects offered, tutoring times and other academic resources. The ASC is located across from the Student Services Complex (SSC). Students may learn more about tutoring services by calling (702) 895-3177 or visiting the tutoring web site at: <http://academicsuccess.unlv.edu/tutoring/>.

**15. Copyright Issues** - The University requires all members of the University Community to familiarize themselves and to follow copyright and fair use requirements. You are individually and solely responsible for violations of copyright and fair use laws. The university will neither protect nor defend you nor assume any responsibility for employee or student violations of fair use laws. Violations of copyright laws could subject you to federal and state civil penalties and criminal liability, as well as disciplinary action under University policies. Additional information can be found at: <http://provost.unlv.edu/copyright/statements.html>.

**16. Rebelmail** - By policy, faculty and staff should e-mail students' Rebelmail accounts only. Rebelmail is UNLV's official e-mail system for students. It is one of the primary ways students receive official university communication such as information about deadlines, major campus events, and announcements. All UNLV students receive a Rebelmail account after they have been admitted to the university. Students' e-mail prefixes are listed on class rosters. The suffix is always @unlv.nevada.edu. Emailing within WebCampus is acceptable.