GEOL 372- Advanced Field Geology

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Course Format:	Three week intensive field study Project 1: March 23-31 Project 2: May 23 – June 3
Required Textbook:	No required text
Prerequisites:	Successful completion (C or better) in GEOL 348

Background and Purpose:

Geologic maps are information-rich scientific documents that show the distribution and orientation of geologic features including rock types and faults. Geologic maps are used in a wide variety of applications including geologic research; exploration for minerals, oil and gas; land use planning; and hazard mitigation. These maps are created by the process of geologic field mapping, which incorporates three kinds of information: direct observation and measurement, interpretation, and determination of age relations and hence history. Because the activity of geologic mapping engages the field mapper in real time observation, reasoning, hypothesis testing, critical thinking, interpretation, and error analysis, geologic mapping is a critical component in the training of Geoscience students and serves as the culminating experience for the BS in Geology major.

Learning Outcomes: In this class you will learn to map collaboratively, and independently, areas of complex geology. You will be expected to generate maps and cross-sections of these areas and to provide reasonable interpretations of the geologic history of the region. This class will build upon your field mapping and report writing skills learned in GEOL 348. Upon completion of this course you will: 1) Have the skillset necessary to geologically map a new region and the breadth of skills to be able to interpret such an area; 2) You will be able to critically access the geology of a region based upon field exposure; 3) You will be able to effectively communicate your findings via technical writing; 4) You will know how to place your study area into a regional tectonic perspective; 5) You will know the proper means of research and reporting in the geosciences, and you will also learn proper camping etiquette to be a better citizen of the geoscience community.

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.

Grade	Semester average	Grade	Semester average
А	over 93	С	between 73 and 77
A-	between 90 and 93	C-	between 70 and 73
B+	between 87 and 90	D+	between 67 and 70
В	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

Final Grades will be computed as follows:

Two Field Mapping Projects	80%
Participation and Professionalism	10%
Camp Citizenship	10%
	100%

Schedule:

Project 1: Friday March 23 to Saturday March 31 (You will be home for Easter) Project 1 Due: Friday, April 27 Project 2: Wednesday May 23rd to Sunday June 3rd Project 2 Due: Monday, June 18

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Mapping Projects:

Mapping projects will entail detailed mapping of a designated area defined by your instructor. You will be expected to produce a professional map in the style of a USGS, NBMG, or UtahGS geologic quadrangle. If you are unfamiliar with these come see me so you can see what they look like. We want to see a clean, neat map with an abundance of attitude data. Take pride in your work, this is your culminating experience! The next map and report you write, your job might depend upon the quality of your work. As part of the map projects you will also be asked to construct cross-sections of the map areas. Associated with the map and cross-section you will need to include a geologic report which explains the geology and geologic history of the map area (a recommended outline will be provided later).

Participation and Professionalism:

You are required to participate in every activity and to be out mapping every day. If you cannot participate you need to have a valid medical, military, or university excuse. Sometimes in the field things happen (sprained ankles, illness, etc.) which can excuse you. Professionalism involves your attitude and interaction with others. We don't want to hear complaining, we don't want to see negative interpersonal issues. You are to conduct yourself in a professional manner while working. During our town days remember you are representing the University of Nevada Las Vegas, the Geoscience Department, and yourselves!

Camp Citizenship:

Everyone is expected to participate in camp life. This involves helping load and unload vehicles, cooking, cleaning, doing dishes, building camp fires, helping change tires, etc. Everyone must carry their own weight or a camp does not run smoothly and leads to a poor academic setting. If you see garbage pick it up, if it's your turn to cook have fun with it, if it's your turn for dishes, step up! If you hide in your tent or the vehicles the whole time and only sneak out to eat or do the bare minimum you can lose up to an entire letter grade!

Logistics and Policies

1. 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 during instruction. 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.

2. 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.

3. Non-enrolled guests - Students are not allowed to bring guests, including children on course activites.

4. 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.

5. 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.

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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.

6. 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.

7. 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/

8. 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/.

9. 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.

10. 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.