

GEOL 335 Course Syllabus
Geology Field Methods II
(1 Unit)

Humboldt State University
Department of Geology
Arcata, CA 95521

Spring 2016
CRN 25181 Section 1

Exercise 1: Agate Beach	Sat 2/20	0800 – 1600
Exercise 2: Stone Lagoon	Sat 3/5	0800 – 1600
	Sun 3/6	0800 – 1600

Instructor: Jason Robert Patton

Email: Jason.Patton@humboldt.edu

Office: Founders Hall 136

Phone: 707.826.3923

Course Website: http://www.science.earthjay.com/?page_id=3808

Office Hours: Tuesday 3:00 PM – 5:00 PM

Prerequisites: GEOL 108 or 109, 235, 312 or 332 **Field Trips:** Two Weekend Field Trips

Required Reading: Coe, A.L. *Geological Field Techniques*. Wiley-Blackwell The Open University, 1st ed., 337 pp., 2010.

Required Supplies: colored pencils for making illustrations; field notebooks for taking notes during our field trips; hand lens; protractor-ruler

Contact: Please don't hesitate to email me with any questions, comments, or concerns. I welcome any feedback or suggestions. The best way to contact me for any reason is by sending an email directly to my HSU email jason.patton@humboldt.edu

Fulfills the following requirements: the Department of Geology upper division core for the Bachelor of Science or Bachelor of Arts degree with a major in Geology

Course Description: Intermediate field mapping project including use of geology field equipment.

Humboldt State University Student Learning Outcomes:

HSU graduates will have demonstrated:

- Effective communication through written and oral modes.
- Critical and creative thinking skills in acquiring a broad base of knowledge and applying it to complex issues
- Competence in a major area of study.
- Appreciation for and understanding of an expanded world perspective by engaging respectfully with a diverse range of individuals, communities and viewpoints.

GEOL 335 Course Syllabus

HSU graduates will be prepared to:

- Succeed in their chosen careers.
- Take responsibility for identifying personal goals and practicing lifelong learning.
- Pursue social justice, promote environmental responsibility, and improve economic conditions in their workplaces and communities.

Grading

Late Assignments are NOT ACCEPTED.

There are NO EXTRA CREDIT opportunities.

Your final grade will be comprised of:

<u>Summary</u>	<u>Points</u>
Exercise 1	500
<u>Exercise 2</u>	<u>500</u>
Total	1000

There are 1000 points available and grades are assigned by the percentage of total points as follows:

1000-940=A	939-900=A-	899-870=B+	869-830=B	829-800=B-
799-770=C+	769-700=C	699-670=D+	669-600=D	<599=F

Communication

The instructor will send announcements via email to the student's humboldt.edu email addresses. Please contact the instructor only via the email listed above. The instructor will respond at their earliest convenience. Students will exchange contact information with their peers on the first day of classes. This is important so that if anyone misses a class, they can contact more than one of their peers to go over the notes and lab materials. Also, students will need to interact during the online portion of this course and having other student's email addresses will facilitate this.

Classroom Conduct

Side conversations among classmates are disrespectful and disruptive to the instructor and your fellow students. Questions or comments about the course material are welcome at all times but should be approached in a respectful manner.

The use of cell phones, iPods, or other items that may distract you, your instructor, or your classmates are not permitted during class. All such devices must be turned off.

You may not leave the room during an exam or quiz unless you are ready to turn in your finished exam.

Academic Honesty

You are encouraged to work together to review notes from lectures, to work on problems from the text, and to formulate ideas for any take-home assignments. However, all work you turn in must be your own independent, original work.

In the event that any work is copied from another student, zero credit will be given to all students involved (regardless of who copied from whom).

GEOL 335 Course Syllabus

Any sources of information used in your written work must be referenced (regardless of whether the material was copied word-for-word). This includes your text book and all internet sources (reference these by including the name and URL). Any work including un-referenced material from another source (regardless of whether it was copied word-for-word) will be given zero credit.

More information is available at:

http://www.humboldt.edu/studentrights/academic_honesty.php

Academic Misconduct: Cheating, plagiarism, collusion, abuse of resource materials, computer misuse, fabrication or falsification, multiple submissions, complicity in academic misconduct, and/ or bearing false witness will not be tolerated. Violations will be dealt with according to the procedures and sanctions proscribed by Humboldt State University. Students caught plagiarizing or cheating on exams will receive an “F” in the course.

University Policies

Students with Disabilities: Persons who wish to request disability-related accommodations should contact the Student Disability Resource Center in the Learning Commons, Lower Library, 826-4678 (voice) or 826-5392 (TDD). Some accommodations may take up to several weeks to arrange. <http://www.humboldt.edu/disability/>

Add/Drop policy: Students are responsible for knowing the University policy, procedures, and schedule for dropping or adding classes. <http://www.humboldt.edu/~reg/regulations/schedadjust.html>

Emergency evacuation: Please review the evacuation plan for the classroom (posted on the orange signs), and review http://www.humboldt.edu/emergencymgmtprogram/evacuation_procedures.php for information on campus Emergency Procedures. During an emergency, information can be found campus conditions at: **826-INFO** or www.humboldt.edu/emergency

Academic honesty: Students are responsible for knowing policy regarding academic honesty: http://www.humboldt.edu/studentrights/academic_honesty.php

Academic dishonesty is willful and intentional fraud and deception to improve a grade or obtain course credit. It includes all student behavior intended to gain unearned academic advantage by fraudulent and/or deceptive means.

Attendance and disruptive behavior: Students are responsible for knowing policy regarding attendance and disruptive behavior: http://www.humboldt.edu/studentrights/attendance_behavior.php

*** Please note that this document is informational and subject to change.**

Geology Field Methods II

GEOL 335 Course Information

Field Trips: We will have two weekend field trips. Each student will turn in a field trip report. The reports will be typed in font size 12, double spaced, and turned in electronically within two weeks of the field trip. The reports will be five to ten pages, including figures and field note scans. Field note scans cannot be more than 50% of the report. The filename needs to include the course number, the subject, and your last name (e.g. GEOL335_ exercise_1_lastname.docx). This field trip report is worth 500 points.

Exercise 1: Agate Beach (1 day). We will do some preliminary training in Van Matre 109 beginning at 8 AM. We will then travel to Patrick's Point State Park and hike down to Agate Beach to make observations that will comprise the substance to our field reports.

Field Trip Objectives:

1. Learn how to measure strike and dip of planar structures
2. Develop field note-taking and data-collection skills
3. Learn how to sketch outcrops and carefully describe lithology
4. Be able to write a geologic report based upon your observations and interpretations of the local geologic history

Exercise 2: Stone and Freshwater Lagoon (2 days). We will leave the Van Matre loading dock at 8 AM. We will then travel to Freshwater and Stone lagoon to make observations that will comprise the substance to our field reports.

Field Trip Objectives:

1. Learn how to measure strike and dip of planar structures and non-planar structures
2. Learn how to use a topographic base map to map geologic contacts and geologic structures
3. Learn how to sketch outcrops and carefully describe lithology
4. Learn how to construct a geologic map that includes structural geology symbology
5. Be able to write a geologic report based upon your observations and interpretations of the local and regional geologic history

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Geology Field Methods II

GEOL 335 Course Expectations

This is a college-level science class, and will require a commitment of your time outside of class. This at-home time will enable you to digest the material we cover in class and help you prepare your reports.

Computer skills: This class will require computer use outside of class. Activities involving the 4 skills listed below will be included throughout the semester. In addition, you will be expected to check Moodle and your email regularly for announcements.

1. Send and receive email from your Humboldt State University email account.
2. Open a web browser and access a web page if you are given the web address.
3. Access the course material online (handouts, slides, announcements, etc.).
4. Create, edit, and export Microsoft word (.doc or .docx), Microsoft Excel (.xls or .xlsx) and Adobe .pdf documents. We will also be using specialized software to create, edit, and export files of other formats.

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