General LAB Syllabus
for
Petrology

Instructors: Dr. LaRell Nielson and Dr. Chris Barker
Department: Geology
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Phones (936) and offices:
Nielson: 468-2024; Rm 304
Barker: 468-2340; Rm 305
Office Hours: TBA by each professor
Class meeting time and place:
Labs meet in Miller Science Building,
Tues., 2:30 - 5 pm, Rm 333
Wed., 2:30 - 5 pm, Rm 333


Objective: The lab for this team-taught course is a comprehensive introduction to igneous, sedimentary and metamorphic rocks. Working with hand samples, you will learn how to identify these rocks and the minerals, grains or fragments within them. You will learn about many special characteristics such as porosity, mylonitic texture and sedimentary cement. To take advantage of the expertise of the geology faculty, the semester is divided into three equal segments. Dr. Nielson will teach igneous and sedimentary rocks, and Dr. Barker will teach metamorphic rocks.

Prerequisites: GOL 131, 132, 241. Required field trip. Lab fee required.

Evaluation: There will be at least one lab test over each major category of rocks, plus weekly lab exercises. The lab tests will be over hand samples of minerals and rocks. The lab tests will be at the end of each of the three sections of the course. There may also be pop quizzes, reading assignments, homeworks, student presentations, writing assignments, etc., depending on our assessment of your learning needs.

Your grade for each segment of the course will count 32%, for a total of 96%. The remaining 4% of your grade will come from the field trip. The instructors will meet at the end of the semester and determine your final course grade.

Ign (32) + Sedim (32) + Meta (32) + FT (4) = 100

NOTE: You must take ALL major lecture and lab exams in order to pass the course. You must also turn in all lab and field trip assignments in order to do well in the course.

TIME TABLE  Approx. start dates for each section of Petrology:

<table>
<thead>
<tr>
<th>Type</th>
<th>Lab</th>
<th>Lecture</th>
</tr>
</thead>
<tbody>
<tr>
<td>IGN rocks</td>
<td>1-19-16, Tues</td>
<td>1-20-16, Wed</td>
</tr>
<tr>
<td>SEDIM rocks</td>
<td>2-23-16, Tues</td>
<td>2-22-16, Mon</td>
</tr>
<tr>
<td>META rocks</td>
<td>4-5-16, Tues</td>
<td>4-4-16, Mon</td>
</tr>
</tbody>
</table>

Field Trip: April 21-23
Field notebook and possibly rock samples may be due at the end of the required field trip.
Lab Topics: The detailed lab topics for each section will be given by each professor.

Lab Manual Use: The optional lab manual discusses petrology in greater detail than we can do in the short time we have in lab. Therefore, we suggest that you read the lab manual to help you better understand the information presented in the lab.

LAB: During the weekly lab you will learn to identify minerals and rocks in hand samples with the help of a hand-lens and stereomicroscope (and possibly in thin sections under a polarizing microscope). Weekly lab exercises will be graded and the grading system used by each professor will be explained at the beginning of their section.

Lab Attendance: It is critical that you not miss any lab! Your professor will present material at the beginning of each lab, so it is important that you be on time to lab. Getting lab notes from someone else is a poor substitute for being in lab yourself because if you are absent, you miss the context in which the notes were given.

Therefore, we consider lab attendance mandatory and will take attendance into account when evaluating your grade at the end of the semester.

** Important Note: If you have ANY lab absence, excused or not, see the section professor immediately to explain your absence.

Can you leave lab early? Yes, but only if you are finished with the assigned lab. Otherwise, plan on staying the whole time. You need to take advantage of lab time to ask the lab instructor questions about the rocks and minerals. Try to finish the lab during the regular lab time.

Voluntary Help/Review Sessions: These may be arranged at the discretion of each instructor and may be offered during the Friday lecture slot (9-9:50 am).

The Fine Print: Pedagogy and University Policies

Pedagogical Statement:

Student Learning Outcomes:
LAB Outcome Objectives: At the end of the lab, students should be able to identify in hand samples:
• constituents of rocks: characteristic minerals, grains and/or fragments,
• characteristics of porosity, cements, textures, fabrics, etc.
• various types of rocks and their features and classification.

UNIVERSITY POLICIES
Add/Drop Policy
Students may add courses through the 2nd class day during the summer semesters and through the 4th class day during the fall or spring semesters. Academic Department Chairs may reconcile class schedules through the official reporting date. Students may drop classes through five working days past mid-semester or mid-session as applicable. A student will not be allowed to drop a course after these dates, unless he or she withdraws 4 from the University.

For information please visit:
http://www.sfasu.edu/upp/pap/academic_affairs/add_drop.html

Course Evaluation
At the end of the semester you will be asked to evaluate this course. Evaluations will be done on-line and you will be reminded when the evaluation period starts. The course evaluation must be done before the final exam. Students who fail to complete their course evaluations may receive an “Incomplete” grade for the course.

Academic Integrity
Academic dishonesty includes both cheating and plagiarism. Cheating includes but is not limited to (1) using or attempting to use unauthorized materials to aid in achieving a better grade on a component of a class; (2) the falsification or invention of any information, including citations,
on an assigned exercise; and/or (3) helping or attempting to help another in an act of cheating or plagiarism. Plagiarism is presenting the words or ideas of another person as if they were your own. In the hopes of deterring incidents of cheating and/or plagiarism this class employs a "zero tolerance" policy meaning that if a student commits cheating or plagiarism they receive a grade of F for the class.

Disability Services (DS)
If you have a documented disability that may require assistance, you will need to contact the Disability Services (DS) for coordination in your academic accommodations. Disability Services is located within The Human Services Building, Room # 234. The DS phone number is (936) 468 3004. You may also visit their website at:
http://www.sfasu.edu/disabilityservices/index.htm
If you have a special need/disability, please let the instructor know outside of class sometime during the first week of the course. This helps to adjust or alter plans so that problems can be minimized and your learning experience can be maximized.

DISRUPTIVE BEHAVIOR. A studious atmosphere must be maintained in the classroom so that everyone can concentrate on the material being presented. Disruptive behavior, including but not limited to, whispering and talking, repeatedly making noises, coming in late or walking around during lecture, or using electronic devices such as cell phones will not be tolerated if it disturbs your classmates or the professor. Here is the university’s statement on this topic:

"Acceptable Student Behavior":
Classroom behavior should not interfere with the instructor’s ability to conduct the class or the ability of other students to learn from the instructional program (see the Student Conduct Code, policy D-34.1). Unacceptable or disruptive behavior will not be tolerated. Students who disrupt the learning environment may be asked to leave class and may be subject to judicial, academic or other penalties. This prohibition applies to all instructional forums, including electronic, classroom, labs, discussion groups, field trips, etc. The instructor shall have full discretion over what behavior is appropriate / inappropriate in the classroom. Students who do not attend class regularly or who perform poorly on class projects/exams may be referred to the Early Alert Program. This program provides students with recommendations for resources or other assistance that is available to help SFA students succeed.

Absences
If you are ill or injured you should get documentation from medical facilities and file a report with the judicial office on campus. Your absence will then be reported to all your instructors.