HISTORICAL GEOLOGY LAB

GEOL 1122-545L
Tuesdays and Thursdays 1:00-2:15pm 1N3200

A syllabus constitutes a contract between the professor and the student. If you remain in this course, you are bound by the policies outlined below.

This is a laboratory to accompany Geology 1122. The laboratory provides practical experience in studying sedimentary rocks to interpret depositional processes and environments, examining fossils and their use in age determinations, correlating rock units, interpreting geologic history from maps, and examining the regional geology of North America. Three hours of laboratory per week are scheduled.

The purpose of a college education is to enlarge the capacity of the mind, not only to pour in knowledge. This only works if you are a participant in this process. This course is part of that process and is not easy.

An outline of the course can be found at the end of this document.

Instructor: Ms. Polly A. Bouker, M.S. Geology
Office: 1N3408
Office Hours: E-Mail: polly.bouker@gpc.edu OR iCollege email
If not emailing within iCollege, please use your college email account and mention GEOL 1122 in the subject line, otherwise your message may be filtered as SPAM.
Preferred Contact: email, in person, or iCollege email

Prerequisites: Have exited or exemption from Developmental Studies and ESL requirements.
Co-requisites: Historical Geology - GEOL 1122

Required Materials:
• Historical Geology Lab Manual, Pamela Gore - available in bookstore or from online book sellers. ISBN 978-1-118-05752-0 NOTE: USED OR RENTAL LAB MANUALS ARE NOT ACCEPTABLE. PAGES WILL NEED TO BE FREE FROM PREVIOUS WRITING AND WILL NEED TO BE REMOVED TO HAND IN FOR A GRADE.
• Access to a computer/internet and online components of the course (iCollege, etc). If you do not have adequate computing resources of your own, these are available on campus in the computer lab.
• Scantron for final exam (GREEN)
• Pencils for lab work

Expected Educational Results:
1. Demonstrate understanding of the tectonic origins for the Earth, the reasons behind the distribution of oceans and continents, and the location of volcanic, earthquake belts, and the internal structure of the Earth.
2. Demonstrate understanding of how natural processes shape the land and how these natural processes affect society.
3. Demonstrate understanding of how different types of rocks and minerals are formed and their significance to society.
4. Recognize and apply scientific inquiry in a variety of geological settings.
General Education Outcomes:
1. This course addresses the general education outcome relating to communications as follows:
   ● Students develop their reading comprehension skills by reading the textbook, handout materials, and/or web materials.
   ● Students develop their listening/communication skills through lecture and group problem solving. Course materials are presented that are not included in the textbook, and are included as part of the exams or tests. These materials are presented as lectures, handout materials, and/or web materials.
   ● Students develop their writing skills through a variety of homework assignments, tests, and quizzes.
   ● Students develop their speaking/communications skills through class discussions, by asking questions in class verbally or through electronic media as well as interactions with their peers in and out of class.
2. This course addresses the general education outcomes of recognition and application of scientific inquiry as follows:
   ● Students must apply the geological principles to explain various observed natural phenomena that occur on the Earth’s surface as well as in the interior of the Earth.
   ● Students will develop their observation skills to be able to recognize the various geological features and materials the Earth is constructed from.
   ● Students will develop the skills of inquiry by use of the scientific method to experience, evaluate, and synthesize data as applied to various geological problems.
3. This course addresses the general education outcomes of identification and evaluation of basic global, economic, and geographic forces as pertains to geology as well as to analyze how these forces shape the past, present and future.
   ● Earth materials have a major impact on the global economic structure of our planet. The study of geology will address the issues of the interaction of society with the Earth.
   ● This course addresses the interaction of society and the environment as it pertains to internal and external forces that affect the Earth.
4. This course addresses the general education outcomes of developing effective individual, and at times, group problem-solving and critical thinking skills as applied to geology.
   ● Students will develop their ability to solve problems and think critically by applying their acquired knowledge of geology to various problems that deal with geological issues as well as geological hazards.

Attendance: Students are expected to be in class and being attentive in order to get important announcements, explanations of content, etc. Very few students are able to master the material in this course without being regular attendees. Lab exercises cannot be made up.

Academic Honesty: Academic Misconduct is defined as cheating and/or plagiarism.
   ● Cheating includes any attempt to defraud, deceive or mislead the instructor in arriving at an honest grade assessment.
   ● Plagiarism is a form of cheating that involves presenting as one's own, the ideas or work of another.
   ● Any student found by the instructor to have engaged in academic misconduct on a graded test, assignment, or examination may be assigned a zero for that assignment, assigned an “F” in the course, and/or be charged with cheating in the Georgia Perimeter College student judiciary process.
   ● Students found guilty of cheating may be dismissed from the class or from the college.
   ● The GPC student handbook describes the regulations governing these procedures.
   ● The use of cell phones for calls or texts during exams will be considered cheating.
**Withdrawal and No Show Policy:** It is the responsibility of the student to withdraw from the course if necessary. Faculty CANNOT withdraw a student for non-attendance. Students who stop attending, and fail to withdraw themselves will receive an "F" for the course.

**Changes to the Syllabus or Semester Schedule:** The policies on this syllabus can change due to unforeseen circumstances. The schedule of topics may change at the discretion of the instructor. Any changes in the syllabus and/or schedule will be announced in class.

**Grading:** Course grades are determined by 4 components:
1. Lab assignments are worth up to 200 total points of your grade
   - No late work is accepted.
   - Lab Assignments cannot be made up at a later date.
2. Core Concept Quizzes are worth up to 100 pts (quizzes are averaged to determine point value, lowest quiz is dropped)
3. Midterm Exam is worth 100 points.
   - There will be NO make up exams.
4. The Final Exam is comprehensive (covers entire semester) and is 100 points of your total grade.
   - The final exam score can replace either the core concept quiz average OR the midterm exam score - NOT BOTH.

These 4 components add up to 500 points (200 + 100 + 100 + 100) and your grade will be determined by the percent of 500 points you have earned by the end of the semester.
- Grades will not be calculated by me until after the final exam.
- It is your responsibility to keep up with your current progress in this course.

**A 450-500 pts   B 400-449 pts   C 350-399 pts   D 300-349 pts   F 299 pts and below**

To determine your grade standing, add up the following points and compare to the points above.

- Midterm score ______
- Lab points total (up to 200) ______
- PASS quiz average ______
- Final Exam Score ______

Example: If you have 300 pts going into the final exam, you would need a 50 on the final to make a "C" in the course, or a 100 on the final to make a "B" in the course.

**Exams:** If the midterm exam is missed for ANY reason, the final exam score will be substituted for the missed exam. Please contact your instructor for clarification if needed.

**Core Concept Quizzes (aka PASS Assessments):** PASS assessments are short quizzes used to test your understanding of a few "core concepts" in this course. I will count them as part of your overall course grade. A score of less than 70% on any of these assessments will trigger an email and text message alert that is sent to you. Please enter your cell phone number into your iCollege PROFILE so that the text alerts will reach you. If you do not have a cell phone, I will happily discuss other notification options.

**Final Exam Policies:** Final Exams will not be returned, as per GPC policy. The final exam must be taken in a proctored environment, which may include a GPC or other approved testing center. The final exam will include the Physical Geology Lab Assessment Exam provided by the GPC Geology Curriculum Committee.
Statement of Academic Freedom: Georgia Perimeter College endorses the Statement of Academic Freedom adopted by the American Association of University Professors in 1940, as it has been amended from time to time. Specifically,

A. Teachers are entitled to full freedom in research and in the publication of the results, subject to the adequate performance of their other academic duties; but research for pecuniary return should be based upon an understanding with the authorities of the institution.

B. Teachers are entitled to freedom in the classroom in discussing their subject and related material.

C. College and university teachers are citizens and members of a learned profession, and should indicate that they are not speaking for the institution when appropriate.

• In adopting the AAUP statement, the College does not necessarily adopt interpretations of the statement that are inconsistent with Georgia Perimeter College's primary mission as a two-year teaching college within the University System of Georgia; however, the College acknowledges its respect for the experience of other academics and institutions in the interpretation of the statement.

• When they speak or write as citizens, they should be free from institutional censorship or discipline. They should at all times be accurate, should show respect for the opinions of others.

• In addition, Georgia Perimeter College recognizes that students are free to take reasonable exception to the data or views offered in any course of study, while meeting the responsibility to learn the content of the course and maintaining the standards of academic performance established for the course.

• Specifically, the College recognizes the right of the student to free thought and orderly free expression in an atmosphere that is conducive to learning and free of coercion and unreasonable interference.

Multiple Campus Statement: Students taking lecture and lab at different campuses should be aware that, while the content is the same, the order of topics may be different. Students are responsible for covering the material as required by each instructor.

Perimeter College seeks to provide an environment that is free of bias, discrimination, and harassment. If you have been the victim of sexual harassment/misconduct/assault, we encourage you to report this. If you report this to a faculty member, he or she must notify one of our college’s Assistant Title IX Coordinators / Student Deans about the basic facts of the incident (you may choose whether you or anyone involved is identified by name). For more information please refer to our sexual misconduct website – http://depts.gpc.edu/gpcmisconduct/index.html
**Course Outline:** Keep a copy of this schedule available at all times so that you stay aware of important dates. There may not be in-class reminders.

**Schedule subject to change at the discretion of the instructor**

<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
<th>Lab Manual Pages or Handouts Needed for lab (READ all associated materials in iCollege and the lab manual BEFORE the lab session) Other Due Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/12</td>
<td>Syllabus</td>
<td></td>
</tr>
<tr>
<td>1/14</td>
<td>Sand Pile Time Scale Demo Geologic Time and Relative Dating - 10 pts</td>
<td>Pgs. 13-18</td>
</tr>
<tr>
<td>1/19</td>
<td>Minerals - 10 pts</td>
<td>Pg. 53</td>
</tr>
<tr>
<td>1/21</td>
<td>Rocks - 10 pts</td>
<td>Pg. 53, 71-73 (head start on next lab)</td>
</tr>
<tr>
<td>1/26</td>
<td>Weathering and Sand Analysis Part 1 – 10 pts</td>
<td>Pre-lab pgs. 74-76 Lab pg. 79 (1-12), 81-84 (1-25)</td>
</tr>
<tr>
<td>1/28</td>
<td>Weathering and Sand Analysis Part 2 – 10 pts</td>
<td>Pgs. 77-78 Finish any unfinished parts of 81-84 PASS QUIZ DUE (covers relative dating)</td>
</tr>
<tr>
<td>2/2</td>
<td>Sedimentary Rocks Day 1 – 10 pts</td>
<td>Pre-lab pgs. 107-108 Lab pgs. 109-111</td>
</tr>
<tr>
<td>2/4</td>
<td>Sedimentary Rocks Day 2 – 10 pts</td>
<td>Finish as needed</td>
</tr>
<tr>
<td>2/9</td>
<td>Sedimentary Structures – 10 pts</td>
<td>Discuss sed structures if didn’t get to it in Lecture Lab pgs. 129-130</td>
</tr>
<tr>
<td>2/11</td>
<td>NO LAB TODAY</td>
<td></td>
</tr>
<tr>
<td>2/16</td>
<td>Sedimentary Structures – 10 pts</td>
<td>Pgs. 131-132 Identification</td>
</tr>
<tr>
<td>2/18</td>
<td>Review for MidTerm</td>
<td></td>
</tr>
<tr>
<td>2/23</td>
<td><strong>SCHEDULE CHANGE: NO LAB TODAY - STUDENT STUDY DAY</strong></td>
<td></td>
</tr>
<tr>
<td>2/25</td>
<td><strong>Mid Term Exam - 20% of course grade! Will cover Geologic Time, Minerals, Igneous and Metamorphic Rocks, Weathering and Sand, Sedimentary Rocks, Sedimentary Structures</strong></td>
<td></td>
</tr>
<tr>
<td>3/1</td>
<td>Return MidTerm Exams Depositional Environments – 10 pts</td>
<td>Pre-lab pgs. 149-150 (1-7) Lab pgs. 150-153 PASS QUIZ DUE (covers weathering-sedimentary structures)</td>
</tr>
</tbody>
</table>
Who are Geology Majors?
- People who want great job opportunities
- People who like the outdoors
- People who like to travel
- People who are curious
- People who are thinking of majoring in “environmental science” or “education”