

TEXAS A&M UNIVERSITY – CORPUS CHRISTI
COLLEGE OF SCIENCE AND TECHNOLOGY

GEOLOGY 1403 – PHYSICAL GEOLOGY LAB SYLLABUS
SUMMER II 2007

Dr. James R. Garrison, Jr.

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Lab Meetings: **101:** Mon, Tue, Wed 12:00 to 02:00 p.m., Room CS 226
102: Mon, Tue, Wed 02:00 to 04:00 p.m., Room CS 226

Lab Manual: Laboratory Manual in Physical Geology (7th Edition), Richard M Busch (ed.)
Pearson Education/Prentice-Hall
IBSN: 0-13-046333-7

Lab Description

The focus of the laboratory exercises will be to describe and identify minerals and rocks and to interpret topographic and geologic maps, and cross sections. The exercises are designed to complement the material presented in the lectures.

Student Learning Outcomes

Upon successful completion of the laboratory exercises, you should be able to identify various igneous, sedimentary, and metamorphic rocks. You should be able to read and interpret topographic and geologic maps.

Evaluation and Grade Assignment

Your points from the lab section will be added to the points acquired in the lecture section

Quizzes and exercises	50 points
Exam I (minerals)	50 points
Exam II (igneous rocks)	50 points
Exam III (sedimentary rocks)	50 points
Exam IV (metamorphic rocks)	50 points
Final Exam (maps)	<u>50 points</u>
Total:	300 points

Quizzes and exams can only be taken during the scheduled time, except in cases of emergencies. Documented proof is required of such emergencies. Make-up quizzes/exams will not be given after the graded test has been returned to the class.

Lab Policies:

No food or drink is permitted in lab. Sandals are not permitted in lab. Mobile phones must be in a quiet mode. Cheating will not be tolerated.

Drafting Supplies

The lab exercises (and in part the lectures) will require the use of some basic drafting supplies. The following is a list of what's needed. Please bring these items with you to each session.

Mechanical pencil, lead size of 0.5 mm or finer	Eraser
Colored pencils (at least six colors)	12" ruler with mm markings

Protractor

Scientific calculator

Lab Schedule

Week 1

Mon Jul 2 No Lab
Wed Jul 3 Introduction, Rock Cycle, and Minerals I

Week 2

Mon Jul 9 Minerals II
Tue Jul 10 Minerals III **Lab Exam (minerals)**
Wed Jul 11 Igneous Rocks I

Week 3

Mon Jul 16 Igneous Rocks II **Lab Exam (Igneous Rocks)**
Tue Jul 17 Sedimentary Rocks I
Wed Jul 18 Sedimentary Rocks II **Lab Exam (Sedimentary Rocks)**

Week 4

Mon Jul 23 Metamorphic Rocks I
Tue Jul 24 Metamorphic Rocks II **Lab Exam (Metamorphic Rocks)**
Wed Jul 25 Topographic Maps and Profiles

Week 5

Mon Jul 30 Geologic Maps and Structures
Tue Jul 31 Geologic Cross-sections
Wed Aug 1 Lab Final Exam (maps and cross-sections)