
DEPARTMENT OF GEOGRAPHY, GEOLOGY, AND PLANNING

GLG 333

Instructor: Thomas G. Plymate

Petrology

Office: Temple 358

Spring 2011

**Office Hours: 8:00 to 9:00 MWF
9:00 to 10:00 TTh**

CATALOG DESCRIPTION

GLG 333 Petrology. 4(2-4) S. Prerequisite: GLG 332. Origin, classification, and identification of common rocks. A grade of "C" or better is required in this course in order to take GLG 413. This course may not be taken pass/not pass.

REQUIRED TEXT AND SUPPLEMENTAL MATERIALS

The following text is required for this course:

Blatt, H., Tracy, R.J., and Owens, B.E., 2006, Petrology: Igneous, Sedimentary, and Metamorphic, 3rd ed.

You will also often want to refer to the text from your mineralogy course:

Klein, C. and Dutrow, B., 2008, Manual of Mineral Science, 23rd ed.

You will also need the following items of lab equipment:

hand lens
dissecting needle (or other soft steel hardness probe)
transparent plastic millimeter scale.

COURSE OBJECTIVES

This course is designed to teach the undergraduate Geology major about the origin, classification, and identification of common types of rocks.

COURSE REQUIREMENTS

This is an integrated lecture-laboratory course.

Lecture material will be presented via the blackboard, overhead projector, handouts, and reading assignments from Blatt, Tracy, & Owens (BTO) and Klein & Dutrow. I expect you to take thorough notes on all of the lecture material presented.

In addition to the material presented in lecture, there will be ten laboratory exercises, a new exercise assigned almost every week. These exercises are designed to require from 6 to 8 hours to complete; therefore, it will be necessary for you to spend a significant amount of time in the lab each week "on your own". Each lab exercise will be due one week after it is assigned; no credit will be given for exercises turned in late.

GRADING

There will be five exams in this course: three lecture exams and two laboratory exams. Each exam is non-comprehensive. Each exam is worth 100 points, for a total of 500 points throughout the semester. The exams will cover the following topics:

Lecture Exam I	Silicate Mineralogy and Phase Equilibria
Lecture Exam II	Igneous Processes
Lab Exam I	Igneous Rocks
Lab Exam II	Sedimentary and Metamorphic Rocks
Lecture Exam III	Sedimentary and Metamorphic Processes (Wed., 5/11, 8:45-10:45)

There will be daily quizzes. Most quizzes will be given at the start of the class period, and you have to be present to take the quiz (no makeups). Most of the quizzes will consist of two fill-in-the-blank questions, one from the material presented in the preceding class period and one from the reading assigned for the current day.

Your weekly laboratory exercises will also be graded. Each lab exercise is worth 40 points, for a total of 400 points throughout the semester.

Your grade for the course will be determined according to the following distribution:

Exams	50%	(10% for each)
Quizzes	10%	
Lab Exercises	40%	(4% for each)

Final grades for the course will be based on the following scale:

92.50 and above	A	77.50 to 79.99	C+
90.00 to 92.49	A-	72.50 to 77.49	C
87.50 to 89.99	B+	70.00 to 72.49	C-
82.50 to 87.49	B	67.50 to 69.99	D+
80.00 to 82.49	B-	60.00 to 67.49	D
	59.99 and below	F	

ATTENDANCE POLICY:

You are expected to attend all of your courses regularly. Attendance will be kept, as required by university regulations, for verification of attendance status in relation to student loans, grants, scholarships, etc. Your attendance will not figure directly into the computation of your grade for this course, but it will be virtually impossible for you to learn the material of this course without attending regularly.

ACADEMIC INTEGRITY POLICY

Missouri State University is a community of scholars committed to developing educated persons who accept the responsibility to practice personal and academic integrity. You are responsible for knowing and following the university's student honor code, *Student Academic Integrity Policies and Procedures*, available at www.missouristate.edu/assets/provost/AcademicIntegrityPolicyRev-1-08.pdf and also available at the Reserves Desk in Meyer Library. Any student participating in any form of academic dishonesty will be subject to sanctions as described in this policy.

Cheating on exams is a very serious offense and will be dealt with accordingly in this course. The first occurrence of cheating by a student in this course will result in a grade of "0%" being assigned for the exam in question, and this "0%" grade will be averaged in with that student's other exam scores. (Note: a "0%" grade received for cheating on an exam cannot be replaced by taking the comprehensive make-up exam.) A second

occurrence of cheating by the same student will result in the instructor initiating the procedure for assigning an “XF” grade for the course.

DROPPING THE COURSE

It is your responsibility to understand the University’s procedure for dropping a class. If you stop attending this class but do not follow proper procedure for dropping the class, you will receive a failing grade and will also be financially obligated to pay for the class. For information about dropping a class or withdrawing from the university, contact the [Office of the Registrar](#) at 836-5520.

NONDISCRIMINATION

Missouri State University is an equal opportunity/affirmative action institution, and maintains a grievance procedure available to any person who believes he or she has been discriminated against. At all times, it is your right to address inquiries or concerns about possible discrimination to the [Office for Equity and Diversity](#), Park Central Office Building, 117 Park Central Square, Suite 111, (417) 836-4252. Other types of concerns (i.e., concerns of an academic nature) should be discussed directly with your instructor and can also be brought to the attention of your instructor’s Department Head. Please visit the OED website at www.missouristate.edu/equity/.

DISABILITY ACCOMMODATION POLICY

Any student with a physical or learning disability which he or she feels may affect performance in this course should arrange to meet with the instructor as soon as possible to discuss his/her individual situation.

For further information about services available to students with disabilities, or to request academic accommodation for a disability, contact the Director of [Disability Services](#), Plaster Student Union, Suite 405, (417) 836-4192 or (417) 836-6792 (TTY), www.missouristate.edu/disability. Students are required to provide documentation of disability to Disability Services prior to receiving accommodations. Disability Services refers some types of accommodation requests to the [Learning Diagnostic Clinic](#), which also provides diagnostic testing for learning and psychological disabilities. For information about testing, contact the Director of the [Learning Diagnostic Clinic](#), (417) 836-4787, <http://psychology.missouristate.edu/ldc>.

EMERGENCY RESPONSE POLICY

Students who require assistance during an emergency evacuation must discuss their needs with their professors and Disability Services. If you have emergency medical information to share with me, or if you need special arrangements in case the building must be evacuated, please make an appointment with me as soon as possible.

For additional information students should contact the [Office of Disability Services](#), 836-4192 (PSU 405), or Larry Combs, Interim Assistant Director of [Public Safety and Transportation](#) at 836-6576.

For further information on Missouri State University’s Emergency Response Plan, please refer to the following web site: <http://www.missouristate.edu/safetran/erp.htm>

POLICY ON USE OF CELL PHONES IN CLASS

As a member of the learning community, each student has a responsibility to other students who are members of the community. When cell phones or pagers ring and students respond in class or leave class to respond, it disrupts the class. Therefore, the [Office of the Provost](#) prohibits the use by students of cell phones, pagers, PDAs, or similar communication devices during scheduled classes. All such devices must be turned off or put in a silent (vibrate) mode and ordinarily should not be taken out during class. Given the fact that these same communication devices are an integral part of the University’s emergency notification system, an exception to this policy would occur when numerous devices activate simultaneously. When this occurs, students may consult their devices to determine if a university emergency exists. If that is not the case, the devices should be immediately returned to silent mode and put away. Other exceptions to this policy may be granted at the discretion of the instructor.