POLICY STATEMENT

GEOLOGY

DEPARTMENT OF GEOGRAPHY,
GEOLOGY & PLANNING

GLG 590 - Applied Geophysics
MW: 6:00-7:50
Temple 331

OFFICE HOURS: TTH, 2:00-5:00
Fall 2007

Email: kevinmickus@missouristate.edu

CATALOG DESCRIPTION:

GLG 590 Applied Geophysics. 3 (2-2)
Prerequisites: GLG 340 (or permission); and either PHY 124 or PHY 204 (or concurrent
enrollment in either); and either MTH 280 or MTH 288 (or concurrent enrollment in
either). Application of geophysical methods in solving geologic problems. Techniques
covered include seismic reflection and refraction, gravity, magnetics, and direct current
and electromagnetic resistivity. Field trips required.

REQUIRED TEXTBOOK:

Environmental and Engineering Geophysics by Reynolds. I do use the textbook during
most of my lectures so be sure to bring your book to class.

COURSE OBJECTIVES:

The purpose of this course is to introduce you to the basic techniques used in applied
geophysics. The theory, data collection, data processing and interpretation of each
technique will be introduced. The main goal is to learn how to solve geologic problems
using geophysical methods.

COURSE REQUIREMENTS:

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
procedures 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 Registration Center at 836-4335. See
Academic Calendars (http://calendar.missouristate.edu/academic.asp) for deadlines.

MAKE-UP POLICY: If you know in advance that you must miss a test for a good reason
(i.e. court appearance, trip with an athletic team, etc.) it may be possible for you to take the
test in advance (please note: this is not an iron clad guarantee of taking an exam early, you must have a good reason; wanted to leave town a day or two early to extend your thanksgiving vacation is not considered a good reason). In this case, you must see me well in advance (one week) and be prepared to substantiate your reason for missing the scheduled test. There will be absolutely no make-up tests given after the fact.

EXTRA CREDIT WORK: There is no extra credit work allowed in this class, please do not ask.

GRADING: There will be 2 exams, and weekly homework assignments. Each will constitute 33% of your grade. The exams are noncomprehensive. The first exam will cover gravity and magnetics. The final exam (Monday December 10, 2007 from 8-10pm) will cover electrical resistivity and seismology. The homework will include working problems that I hand out, review of reading assignments, collecting, processing and interpreting data collected in the field, and computer-based (PC and UNIX) assignments. NO GRADES OF INCOMPLETE WILL BE GIVEN THE LAST WEEK OF CLASS OR LATER. DO NOT ASK ME FOR YOUR GRADES, PLEASE KEEP TRACK OF YOUR OWN GRADES.

ATTENDANCE POLICY: Attendance will not be used in determining grades. On the first day of class, faculty must provide students with a written statement of the specific attendance policy for that class. The instructor has the responsibility to determine specific attendance policies for each course taught, including the role that attendance plays in calculation of final grades and the extent to which work missed due to non-attendance can be made up. For GLG 590, attendance will be taken but will be counted against or for your grade.

DISABLED STUDENTS:

To request academic accommodations for a disability, contact the Director of Disability Services, Plaster Student Union, Suite 405, (417) 836-4192 or (417) 836-6792 (TTY), http://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.

ACADEMIC INTEGRITY:

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 http://www.missouristate.edu/provost/3935.htm 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.
NONDISCRIMINATION:

Missouri State University is a community of people with respect for diversity. The University emphasizes the dignity and equality common to all persons and adheres to a strict nondiscrimination policy regarding the treatment of individual faculty, staff, and students. In accord with federal law and applicable Missouri statutes, the University does not discriminate on the basis of race, color, religion, sex, national origin, ancestry, age, disability, or veteran status in employment or in any program or activity offered or sponsored by the University. In addition, the University does not discriminate on any basis (including, but not limited to, political affiliation and sexual orientation) not related to the applicable educational requirements for students or the applicable job requirements for employees.

This policy shall not be interpreted in a manner as to violate the legal rights of religious organizations or military organizations associated with the Armed Forces of the United States of America.

The University maintains a grievance procedure incorporating due process available to any person who believes he or she has been discriminated against. Missouri State University is an Equal Opportunity/Affirmative Action employer. Inquiries concerning the grievance procedure, Affirmative Action Plan, or compliance with federal and state laws and guidelines should be addressed to Jana Estergard, Equal Opportunity Officer, Siceluff Hall 296, 901 South National Avenue, Springfield, Missouri 65897, (417) 836-4252.

POLICY ON USE OF CELL PHONES IN CLASSES:

The use by students of cell phones, pagers, or similar communication devices during scheduled classes is prohibited. All such devices must be turned off or put in a silent mode and cannot be taken out during class. At the discretion of the instructor, exception to this policy is possible in special circumstances. See http://www.missouristate.edu/provost/4264.htm for complete policy.
<table>
<thead>
<tr>
<th>GLG 590- ELEMENTS OF GEOPHYSICS</th>
<th>Approximate number of weeks applied to subject</th>
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<tbody>
<tr>
<td>Introduction to the Course, Basics of Geophysics</td>
<td>1</td>
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<tr>
<td>Gravity Method</td>
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<td>Magnetic Method</td>
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<td>Seismic Refraction and Reflection Methods</td>
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