# GLY 110 GENERAL GEOLOGY F-14

**Text**: Essentials of Geology, Lutgens & Tarbuck, 2014, 12th edition

**Instructor**: Dr. Ronald L. Martino

174 Science Building;

Office: S174; Hours: M, W, F: 10-11; T: 9-1 (appointment recommended)

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# Course Description

General Geology: 3 credit hours, 3 lectures, 50 minutes each, per week;

A beginning level geology course which surveys elements of earth materials, processes,

structures, and history. The course is designed primarily for the non-science major.

Co-requisite (depending on major): 210L (Earth Materials Lab)

# Course Objectives

The goals of this course are for each student to:

1) develop a basic understanding of the various types of geologic processes and the earth

materials that they produce and modify through time,

2) become familiar with the main physical and biological events that have been interpreted to

have occurred during earth history, and the ever-changing nature of the planet,

3) develop an awareness of the impact of man’s activities on the earth’s dynamic systems,

4) acquire an appreciation for the dual role of geologists in our society; this involves the

maintenance of the resource base on which society depends, and the monitoring and

limitation of the impact of resource extraction and consumption on the environment.

**Grading Policy**

Letter grades will be issued for final averages:

90‑100: A, 80-89: B, 70-79: C 60-69: D < 60: F

The final average will be calculated as follows:

Drop low hour exam (1, 2, 3, or 4)

Remaining 3 hour exams = 60 % (20 % each)

Final Exam = 25 %

Attendance = 7.5%

Class Participation = 7.5%

Since the low exam score is dropped, **there will be no makeup exams for any reason**. As a bonus, 10 % of an *entrance exam* score will be added to first exam; the difference between *entrance* and *exit exams* divided by 4 will be added to the final exam score.

Extra credit may be made available through participation in field trip (s) and will be awarded based on accurate completion of extra credit questions.

# Attendance/Participation Policy

A daily record of attendance will be kept by calling roll at the beginning of each class. It is the responsibility of each student to respond to the roll call, and if late to notify the instructor at the end of the lecture. Failure to do so may result in an official absence for that lecture. Arriving late or leaving lecture early may reduce or void credit for attendance for that day. Absences may be excused by the University for serious medical or legal reasons, military obligation, or university activities. No cuts will result in a grade of 100 % for attendance.

Readings and study questions will be assigned as class preparation and will provide the basis for class discussion. Students that are consistently well-prepared, who actively participate in these discussions, and who avoid I-Phone use during class will maximize their grade for participation.

Any form of academic dishonesty\* that occurs will result in dismissal from the course and an automatic final grade of “F” . A letter outlining the offense will be forwarded to the academic dean for consideration of further action (\*see p. 70-81, Undergraduate Catalog:

<http://www.marshall.edu/ucomm/files/web/UG_14-15_published.pdf>).

By enrolling in this course, you agree to the University Policies listed below. Please read the full text of each policy be going to [www.marshall.edu/academic-affairs](http://www.marshall.edu/academic-affairs) and clicking on “Marshall University Policies.” Or, you can access the policies directly by going to <http://www.marshall.edu/academic-affairs/?page_id=802>

Academic Dishonesty/ Excused Absence Policy for Undergraduates/ Computing Services Acceptable Use/ Inclement Weather/ Dead Week/ Students with Disabilities/ Academic Forgiveness/ Academic Probation and Suspension/ Academic Rights and Responsibilities of Students/ Affirmative Action/ Sexual Harassment

# Teaching Outline

Week No. Topic Reading Assignment (Chapters)

1 Introduction, Plate Tectonics 1, 2 (*Entrance Exam*)

2 Minerals: building blocks 3

3 Igneous Rocks/Intrusive Activity 4

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4 **EXAM 1 (C.1-3)** , Volcanoes 5

5 Sedimentary Rocks 7

6 Metamorphic Rocks 8

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**7 EXAM 2 (C 4,6,7)**/Weathering & Soils 6

8 Mass Wasting 12

9 Running Water 13

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10-11 **EXAM 3 (C. 5,8,9)/** Earthquakes + 9

12 Crustal Deformation/Mt. Building 11

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13  **EXAM 4 (C 14,17)** Geologic Time 18

14-15 Earth’s Evolution Through Time 19

**\_\_**\_\_\_\_\_\_**FINAL EXAM** **(comprehensive), Dec. 12, 8:00 am** \_\_ *(Exit Exam)*

Useful Websites: **Information about Careers in Geology/Geoscience**

* [www.agiweb.org](http://www.agiweb.org/) [www.usgs.gov](http://www.usgs.gov/) [www.geosociety.org](http://www.geosociety.org/)