


Nazarene
University
College

**GEO 209 Introduction to Geology (3)
Winter 2001**

Instructor: Mr. Wayne Haglund **Office:** 5th floor
Office Hours: by appointment (before or after class)
Class Times: Tuesdays 07:00 - 09:50 pm **Location:** Room One
Email Address: waynehaglund@home.com

Required Text

Stanley Chernicoff and Haydn A. Fox. *Essentials of Geology*. Houghton Mifflin Co.: New York, 2000.

Course Description

Basic concepts regarding the major features of Earth; its rock and mineral composition, processes controlling erosion, transportation, deposition and associated landforms; formation of mountains, ocean basins and continents; internal structures of the Earth and plate tectonics.

Course Objectives

- Students will be given a basic understanding of geologic materials and processes; and are expected to synthesize the information, drawing appropriate conclusions as to how they relate to our environment.
- Students will be given fundamental geologic terminology; and are expected to be able to communicate effectively their understanding of geological situations.
- Students will be given descriptions of various common geologic hazards that affect man; and are expected to be able to understand their causes and effects and what their costs are to society.

Course Schedule

January 9	Introduction to Geology 209 / Plate Tectonics
16	Mineral Properties and Identification
23	Igneous Activity / Igneous Rocks
30	Interior of the Earth / Earthquakes

February 6	Deformation / Metamorphism / Metamorphic Rocks
13	Sedimentary Environments / Sedimentary Rocks
20	Mid-Term Break
27	Mid-Term Examination
March 6	Weathering / Mass-wasting / Groundwater
13	River Dynamics / River Morphology / Wind Dynamics
20	Glaciation / Glacial landforms
27	Ocean Dynamic / Shoreline Landforms
April 3	Geological Time / Fossilization
10	Fossil Classification
17	Geological History of western North America

Course Requirements and Grading

Term assignment:

Students are required to complete and submit for grading a **Term Assignment**. Further details, including a handout, of the nature of this assignment and the due date will be provided in the third or fourth week of the class.

Examinations:

Two examinations will be given to the class, a mid-term exam and the final examination.

The mid-term examination will consist of fifty (50) multiple choice questions; the final examination will consist of seventy five (75) multiple choice questions, most will address that material since the mid-term examination.

As part of the examination process a one page (8.5 x 11 inches), one side, hand written original (no photocopy will be accepted) "Note sheet" may be prepared to be used by the student during the examination. The "Note sheet" must be handed in with the examination.

Grading Schedule:

mid-term examination	= 40%
final examination	= 40%
term assignment	= 20%
	100%

Important Notes

* Lecture Notes maybe accessed at: <http://qbiz.ca/haglund/introgeol.htm>