HISTORICAL GEOLOGY AND LAB
Doane College
COURSE OUTLINE AND SYLLABUS

Course Number: GEO 104
Credit Hours: 4

Instructor: Charles Carpenter  B.S., M.S.
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Materials Required:
Textbook: Historical Geology: Evolution of Earth and Life Through Time (6th Ed.)
Wicander, Reed & Monroe, James S.
ISBN: 0495560073
Other supplemental materials will be supplied by the instructor as required.

Course Description:
This course is a study of the major changes that have occurred to the Earth and its life over the last 4.6 billion years. Emphasis will be given to the geologic changes in North America. A special side note is that we will take a close look at some of the unique historical geology of Nebraska. As with all kinds of history, this course should enhance your appreciation of the present, and your view of the future, by showing you how we reached our current state.

Course Objectives:
By the end of this course the student will be expected to:

1. Develop an understanding and appreciation of the Earth’s history.

2. Distinguish between historical geology and physical geology.

3. State the age of the Earth and discuss how this age is determined.

4. Outline the major geologic and evolutionary events throughout Earth’s history.

5. Describe and identify basic fossil types.

6. Develop an understanding of the techniques and limitations through which the Earth’s history is uncovered.

7. Describe how plate tectonics and the evolution of life are related.

8. Outline some of the major geologic events that have occurred in North America and Nebraska.

9. Apply basic stratigraphic principles to the interpretation of the rock record.

Course Requirements:
1. **Class Participation/Attendance (worth 20% of the course grade)**  
This is determined by the number of times you are present in class and by your contributions during lab work and discussion.

2. **Projects/papers (worth 30% of the course grade)**  
This work will be divided into two projects. One project will be with a partner; it involves the geologic eras. Another project will involve the historical geology of Nebraska; you will do this project individually. Some daily work may be involved.

3. **Tests (worth 50% of the course grade)**  
These tests will involve both lab and chapter questions and summary notes. They will be done individually as well as with a partner(s).

**Doane College Academic Integrity Policy**

*The Doane College Academic Integrity Policy will be adhered to in this class. All projects and tests will represent your own work. Any use of others’ ideas and words without proper citation of sources is plagiarism and will result in penalties to be determined by the instructor and/or the dean of undergraduate studies.*