

OSC026 – HISTORICAL GEOLOGY WITH LAB

Credit Hours: 4 Semester Hours
Pre-requisites: None
Suggested Textbook Topics: General understanding of the basic geologic concepts; portrayal of evolution in the fossil record; Solar Nebula Theory, geologic time, and radiometric age dating; and physical, chemical, and organic evolution in the pre-Cambrian, Paleozoic, Mesozoic, and Cenozoic.
Related TAG: Geology
General Course Description: The scientific origin of the Earth in space and the scientific origin of life and its evolution. Physical and biological evolution of the oceans, atmosphere, and continents through geologic time. Lab component stresses further application of scientific methods and problem solving.
A minimum of 70% of the Student Learning Outcomes, including essential outcomes marked with an asterisk (*), must be met.
Students will be able to:
1. Explore methods of scientific inquiry.
2. Understand the physical and chemical origin and evolution of the earth.
3. Understand the Earth's origin and evolution of life in the context of the Solar Nebula Theory, the biological theory of evolution, and deep time.*
4. Explain scientific methods of relative and absolute age dating.
5. Interpret geologic history using rocks, fossils, and geologic maps.
6. Understand the evolution of significant geological concepts.
Lab Course Learning Outcomes:
7. Identify fossils and their temporal and environmental significance.*
8. Demonstrate proper and safe use of experimental techniques and tools/instruments.
9. Reconstruct geologic history using age-dating methods, geologic maps, rocks, and fossils.*

GEOLOGY TAG: HISTORICAL GEOLOGY WITH LAB TAG COURSE
FACULTY PARTICIPANTS
September 2016 - April 2017

Name	Institution
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