SYLLABUS

SPECIAL TOPICS IN SCIENCE HISTORICAL GEOLOGY

SPRING, 2016

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<u>COURSE DESCRIPTION</u>: Historical geology uses the principles and techniques of geology to reconstruct and understand the geological history of the earth. In this respect investigation and examination of geologic processes, stratigraphy, structural geology, paleontology and evolution will allow the student to compile and understand the events that have and continue to shape the history of our planet. This course is designed to be a writing-intensive study with pertinent topics assigned weekly that will require the student to research and explain various facets of historical geology.

Note: It is mandatory that the textbook be purchased for this course. The course textbook MUST be brought to each lecture.

<u>**TEXT**</u>: *The Earth Through Time*; Harold L. Levin, 10th Ed.; John Wiley & Sons, Inc.; 2013. ISBN: 978-1-118-25467-7

LECTURE SCHEDULE:

Please note that changes and alterations of topics and dates are inevitable, so please remain flexible.

ATTENDANCE POLICY: Attendance will be taken in each class and laboratory period. Unexcused absences from lecture and lab will be reflected in the final grade. Students have the responsibility to secure and present evidence of the nature of any legitimate excused absence.

<u>CELL PHONES</u>: Cell phones MUST be turned off or put on "vibrate only" during class or lab. No texting or other use of cell phones will be tolerated during class.

TOPIC/CHAPTER	WEEK OF:
Introduction/Basic Principles	Jan. 18
(Chap. 1 & 2)	
Geologic Time/Minerals/Rocks	Jan. 25
(Chap. 3 & 4)	
Sedimentary Rock Record/Fossils	Feb. 1
(Chap. 5 & 6)	
Plate Tectonics (Chap. 7)	Feb. 8
LECTURE EXAM #1	FEB. 15
Archean Eon (Chap. 8)	Feb. 22
Proterozoic (Chap. 9)	Feb. 29
SPRING BREAK	March 7
Early Paleozoic (Chap. 10)	March 14
Middle to Late Paleozoic (Chap. 11)	March 21
Paleozoic Life (Chap. 12)	March 28
LECTURE EXAM #2	APRIL 4
Mesozoic (Chap. 13)	April 11
Mesozoic and Cenozoic	April 18
(Chap. 14, 15 & 16)	
Human Evolution (Chap. 17)	April 25

LECTURE EXAM #3

TO BE ANNOUNCED

LABORATORY SCHEDULE:

No Lab Meeting	Jan. 18
Relative Dating	Jan. 25
Basic Stratigraphy	Feb. 1
Physical Stratigraphy I	Feb. 8
Physical Stratigraphy II	Feb. 15
Sedimentology & Depositional Environments	Feb. 22

LAB MID-TERM EXAMINATION

SEMESTER BREAK	MARCH 7
Introduction to Paleontology	March 14
Paleontology and the identification of major phyla I	March 21
Paleontology and the identification of major phyla II	March 28
Geologic Structures	April 4
Geologic Maps	April 11

LAB FINAL EXAMINATION

APRIL 18

FEB. 29

NOTE: Students who wish to request accommodations in this class for a disability should contact Academic Support Center, located on the first floor of Monocacy Hall (extension 1401). Accommodations cannot be provided until authorization is received from the Academic Support Center.