

Geology 105 – 03 CRN:11282
Earth History
Fall 2018
MWF 10:00 – 10:50 PM Rm 129 SSMB

INSTRUCTOR: Robin Humphreys

Office: Rm 220 SSMB

Phone: 843-953-7424 Please do not leave a voice mail as my mailbox does not work properly.

Email: humphreysr@cofc.edu When emailing, please leave your name and which course you are in, as I teach multiple courses/sections.

Office hours: Mondays/Wednesdays 11:00 – 12:00 or by appointment (preferred) – Please feel free to come by with questions or concerns. You are welcome to stop by any time I am in my office. Please let me know if you would like to meet so that I can be sure that I am in my office when you come by.

Communication: I will use e-mail through OAKS to contact you throughout the semester, for assignment and exam clarification, changes in class schedule, and other similar reasons. You have all been assigned an official CofC email accounts and are responsible for checking e-mail on a daily basis. Note: E-mail is also the best way to contact me if you would like a quick response to a question. I will ONLY answer email from your official CofC account due to privacy concerns (aka FERPA).

COURSE OVERVIEW

An overview of the 4.6 billion-year history of our planet as revealed by analysis and interpretation of the geologic and paleontologic record preserved in rocks of the earth's crust. The course examines how the earth's systems have changed with an eye to understanding the principles of climate change. The study of Darwinian evolution and the examination of your history in time and space are central themes of your class.

General Education Student Learning OUTCOMES:

Student Learning Outcome 1: Students apply physical/natural principles to analyze and solve problems.

Student Learning Outcome 2: Students will develop an understanding of the impact that science has on society.

These learning outcomes will be assessed with a signature set of questions given in your laboratory class final examination.

Geology Program Outcomes

1. Students will identify, describe, and classify minerals, rocks, fossils, structures, and strata; make scientific observations of these items in the field and in the laboratory; analyze observations and measurements in a scientifically sound manner;
2. Students will summarize and explain the Earth's history, uniformitarian processes that shape the Earth, and the evolution of life as revealed in the fossil record
3. Students will analyze society's dependence on Earth resources, the interaction between human activities and the natural environment (including global climate change), and understand geological hazards;
4. Students will apply geologic knowledge to the analysis of structural, paleontological, and stratigraphical problems in the field.

EARTH HISTORY COURSE OBJECTIVES:

1. Students will be able to interpret earth's climatologic, geologic, and evolutionary history using sedimentary rocks and fossils
2. Students will be able to explain the interactions of the earth's systems throughout its 4.6 billion years of history.

TEACHING RESOURCES

Required materials: one package of 3x5 notecards. These will be used during class for the daily in-class quizzes. These may be purchased at the CofC bookstore or other general stores.

Required Textbooks:

History of Life 5th edition. Richard Cowen 2013. Also, there is a collection of readings for class that are accessible via OAKS. There is at least one primary reading for each lecture, and there may be several supplemental readings and websites.

Optional Textbook:

Electronic text - Earth: Portrait of a Planet. Stephen Marshak electronic book. This e-book is packaged with your 103 lab manual and is

accessible via the code located in the front of your lab manual. If you do not have a lab manual, you can purchase the e-book separately. **Prehistoric Life: The Definitive Visual History of Life on Earth** by [DK Publishing](#). It is available online from Amazon, Barnes and Nobles, etc. Used paperback version are available starting at ~\$15.00. There may be some of these books at the CofC bookstore. This is a great basic text, easy to read, with great imagery.

Other course materials: I will be sending you information that supplements your reading and lecture materials. You should check your college E-mail account for class information and updates.

Additional Help: There will be a study guide provided before each exam.

ATTENDANCE POLICY:

Absences

You are expected to attend all class meetings, **and I will drop you from the class if you have more than FOUR unexcused absences.** If you have an excused absence, please let me know ASAP via email AND via contacting the Absence Memo Office. See information here: <http://studentaffairs.cofc.edu/about/absence-memo/index.php>

Being in class is an essential component of this course and excessive absences will adversely affect your grade. Acceptable excuses include illness, personal tragedy or circumstances beyond the student's control. Work obligations are NOT considered excused absences. Additionally, attendance for general education courses is mandatory and will be taken daily.

NOTE: YOU WILL BE WITHDRAWN FROM CLASS FOR MORE THAN FOUR UNEXCUSED ABSENCES

Tardiness

Showing up late to class is both disrespectful and prevents you and your fellow students from being fully engaged in the course. ***If you show up late and miss the daily quiz, you will be counted absent*** – no exceptions, unless it is an emergency.

ASSESSMENT:

Grading Policy: There is no 'curve' in this class; your grade depends solely on the effort that you put into the class. Grades will be assigned based on the total points you have accumulated/earned, based on the scale shown below. There will be 3 exams given during class hours, and a final exam. All exams, including the final exam, will be worth 100 points each. There will be **daily on-line quizzes** that will cover the reading only. The online quiz must be completed before the each lecture. Additionally, daily in-class quizzes (on 3x5 notecards) are given in class, covering the previous class lecture. ***Quizzes and in-class activities may NOT be made up and you will receive a 'zero' for that day's quiz or activity. I do not drop grades.***

Tasks	Final Grade %
Three exams (~100 pts each)	60
Final test (~100 pts)	20
Online quizzes and/or homework/projects	15
In-Class group quizzes and activities	5

The final will emphasize information from the last lectures, but the final will also contain selected questions covering material studied during the entire the class (approximately 10-20%).

≥93% = A	90-92 = A-	87-89 = B+	83-86 = B	82-80 = B-	77-79 = C+
73-76 = C	72-70 = C-	67-69 = D+	63-66 = D	62-60 = D-	≤59 = F

Exams: Every student will take the exams at the scheduled time. **NO MAKEUP EXAMS WILL BE GIVEN WITHOUT A VALID EXCUSE** (e. g., doctor's note). All makeup tests will be essays. Should you fail to take the final exam, you will receive an **X**, which will automatically convert to an **F** for the course.

SPECIAL CONSIDERATIONS AND EQUAL ACCESS:

Any student eligible for and needing accommodations because of a disability is requested to speak with the professor during the first two weeks of class or as soon as the student has been approved for services so that reasonable accommodations can be arranged. If you wish, you can speak to me about your needed accommodation either after class or during my office hours.

The College will **make reasonable accommodations** for persons with documented disabilities. Students should apply for services at the Center for Disability Services/SNAP located on the first floor of the Lightsey Center, Suite 104. Students approved for accommodations are responsible for notifying me as soon as possible and for contacting me one week before accommodation is needed.

This College abides by Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act. If you have a documented disability that may have some impact on your work in this class and for which you may require accommodations, please see an administrator at the Center of Disability Services/SNAP, (843) 953-1431) or me so that such accommodation may be arranged.

Academic Support Services—The Center for Student Learning

I encourage you to utilize the Center for Student Learning's (CSL) academic support services for assistance in study strategies and course content. They offer tutoring, Supplemental Instruction, study skills appointments, and workshops. Students of all abilities have become more successful using these programs throughout their academic career and the services are available to you at no additional cost.

The CSL, located on the first floor of the library, offers a wide variety of tutoring and other academic resources that support many courses offered at the College. Services include walk-in tutoring, by appointment tutoring, study strategies appointments, Peer Academic Coaching (PAC), and Supplemental Instruction (SI). All services are described and all lab schedules are posted on the CSL website <http://csl.cofc.edu/>, or call 843.953.5635 for information.

CLASSROOM CODE OF CONDUCT

Code language that guides our responses to classroom disruption can be found in the Student Handbook: A Guide to Civil and Honorable Conduct. The Student Code of Conduct (Section found within the Student Handbook) specifically forbids disruption or obstruction of teaching, research, administration, disciplinary proceedings other college activities, including its public service functions on or off campus, or other authorized non-college activities when the act occurs on college premises. The Classroom Code of Conduct (from the President's Advisory Committee) covers specific principles of civil conduct expected in a college classroom:

- Do not cut classes, come in late or leave early.
- Never leave during class unless you absolutely must. Leaving for a short break and then returning is not acceptable. If you must leave early, please let me know in advance, and then please sit near an exit so as not to disrupt others when leaving.
- Turn off cell phones, pagers and all other electronic devices (unless directed otherwise by the professor).
- It is rude and unacceptable to talk with classmates while the professor (or another student who has the floor) is talking.
- Visible and noisy signs of restlessness are rude as well as disruptive to others. (Student Handbook, pp. 58-59)

For additional information please read the College of Charleston guidelines for classroom disruption <http://studentaffairs.cofc.edu/honor-system/classroom-disruption.php>

College of Charleston Honor Code and Academic Integrity: Lying, cheating, attempted cheating, and plagiarism are violations of our Honor Code that, when identified, are investigated. Each incident will be examined to determine the degree of deception involved. *(FYI- I am a member of the CofC Honor Board and KNOW cheating and plagiarism are taken very seriously at the College of Charleston. DO NOT DO CHEAT OR PLAGARIZE – IT IS NOT WORTH IT!)*

Incidents where the instructor determines the student's actions are related more to a misunderstanding will be handled by the instructor. A written intervention designed to help prevent the student from repeating the error will be given to the student. The intervention, submitted by form and signed both by the instructor and the student, will be forwarded to the Dean of Students and placed in the student's file.

Cases of suspected academic dishonesty will be reported directly by the instructor and/or others having knowledge of the incident to the Dean of Students. A student found responsible by the Honor Board for academic dishonesty will receive a XF in the course, indicating failure of the course due to academic dishonesty. This grade will appear on the student's transcript for two years after which the student may petition for the X to be expunged. The F is permanent. The student may also be placed on disciplinary probation, suspended (temporary removal) or expelled (permanent removal) from the College by the Honor Board.

Students should be aware that unauthorized collaboration--working together without permission-- is a form of cheating. Unless the instructor specifies that students can work together on an assignment, quiz and/or test, no collaboration during the completion of the assignment is permitted. Other forms of cheating include possessing or using an unauthorized study aid (which could include accessing information via a cell phone or computer), copying from others' exams, fabricating data, and giving unauthorized

assistance. Research conducted and/or papers written for other classes cannot be used in whole or in part for any assignment in this class without obtaining prior permission from the instructor. Students can find the complete Honor Code and all related processes in the *Student Handbook* at <http://studentaffairs.cofc.edu/honor-system/studenthandbook/index.php>

NOTE: THIS SCHEDULE IS SUBJECT TO CHANGE DURING THE COURSE OF THE SEMESTER.

Geologic Era	Subject	Chapters/Readings
	Introduction and Uniformitarianism	Chapter 1
	Sedimentary Environments	Readings
	Geologic Time and Fossils	Readings
	Earth's changing climate	Chapter 6
	Evolution Basics – Domestication	Domestication of Dogs
	Darwin and the Galápagos	Voyage of the Beagle; readings
	Galápagos and Origin of Species	Galápagos – Movie, readings
	Origin of Species	Chapter 2; readings
EXAM 1 Friday, September 21, 2018		
PreCambrian	Origin of Universe and Earth	Chapter 1
PreCambrian	The Origin of Life on Earth	Chapter 1
PreCambrian	Earliest Life on Earth	2
PreCambrian	Sex and Nuclei: Eukaryotes	3 + 4
PreCambrian	Ediacaran Fauna	4 + 5
Paleozoic	Cambrian transition - Causes	5
Paleozoic	Burgess shale + Vertebrate Origins	6
Paleozoic	Fish Evolution	7
Paleozoic	Leaving the water	8
Paleozoic	Tetrapods and Amniotes	9
Paleozoic	Therapsids Reptiles – Permian Extinction	10
EXAM 2 Friday, October 19, 2018		
Mesozoic	The Triassic Takeover	11
Mesozoic	Dinosaurs	12
Mesozoic	Dinosaurs	12
Mesozoic	Feathered Dinosaurs	12
Mesozoic	The Evolution of Flight	13
Mesozoic	Pterosaurs/Marine Reptiles	13/14
EXAM 3 Friday, November 9, 2018		
Mesozoic	Origin of Mammals	15
Paleozoic	Cretaceous Extinction	16
Cenozoic	Cenozoic Mammals	17
Cenozoic	Geography and Evolution -Climate	18
Cenozoic	Geography and Evolution –Horses and Whales	18 and Readings
Cenozoic	Primates evolution	19
Cenozoic	Human evolution	20
Cenozoic	Human's and The Ice Ages	21
*****FINAL EXAM Monday December 10 9:00-11:00 am*****		

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COLLEGE OF CHARLESTON HONOR CODE

Class 1 – act involves significant premeditation; conspiracy and/or intent to deceive, e.g., purchasing a research paper.

Penalties for Class 1: XF and either suspension or expulsion assigned if student found responsible for this class of offense by Honor Board.

Class 2 – act involves deliberate failure to comply with assignment directions, some conspiracy and/or intent to deceive, e.g., camouflaged use of the Internet when prohibited, fabricated endnotes or data, copying several answers from another student's test.

Penalties for Class 2: XF and other sanctions assigned if student found responsible for this class of offense by Honor Board.

Class 3 – act mostly due to ignorance, misunderstanding, confusion and/or poor communication between instructor and class, e.g., unintentional violation of the class rules on collaboration.

Penalties for Class 3: Zero on the assignment/test, resubmission of assignment, etc.

Examples of violations for Classes 1-3

The lists below are not meant to be comprehensive but illustrative of the types of acts that generally will be before the Honor Board and faculty members.

Examples of Class 1 violations:

- o taking a test for someone else or permitting someone else to take a test or course in one's place,
- o intentional plagiarizing, where the entire work was written or created by another,
- o obtaining, stealing, or buying all or a significant part of an unadministered exam,
- o selling or giving away all or a significant part of an unadministered test,
- o bribing or attempting to bribe any other person to obtain an unadministered test or any information about the test,
- o **buying, or otherwise acquiring, another's course paper and resubmitting it as one's own work, whether altered or not**
- o entering a building, office, or computer for the purpose of changing a grade in a grade book, on a test, or on other work for which a grade is given,
- o changing, altering, or being an accessory to changing and/or altering a grade in a grade book, on a test, on a "Change of Grade" form, or other official academic college record which relates to grades, and
- o entering a building, office, or computer for the purpose of obtaining an unadministered test.

Examples of Class 2 violations:

- o cheating on an exam which involves some premeditation,
- o **copying from another's test or allowing another student to copy from your test, where some plans were made for such collaboration,**
- o intentional plagiarizing, where a moderate portion of the submitted work was written or created by another,
- o unauthorized reuse of previously graded work,
- o intentionally failing to cite information from the correct source,
- o intentionally listing sources in a bibliography/work cited page that were not used in the paper,
- o **copying, or allowing one to copy, homework assignments that are to be submitted for credit, when unauthorized,**
- o **unauthorized collaboration on an assignment, and**
- o **unauthorized and intentional use or possession of a study aid.**

Examples of Class 3 violations:

- o record of same offense made on other similar assignments and no feedback provided by the instructor prior to allegation,
- o **reusing and/or building upon coursework already submitted for another class without permission of the instructor,**
- o unintentionally failing to cite information from the correct source,
- o unintentional violation of the class rules on collaboration, and
- o unintentional possession of a study aid.

The complete XF policy can be found in Appendix A of the [Student Handbook 2014-2015](#).

Did I Plagiarize?

The Types and Severity of Plagiarism Violations

