

Instructor:

Dr. John H. Whitmore, Associate Professor of Geology, at Cedarville since 1991
1985, BS Geology, Kent State University
1991, MS Geology, Institute for Creation Research
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If you need to contact me immediately, please call me. If you need to leave a message, the best place to leave it is on my cell phone. **If you have problems on an exam, please call me immediately so the problem can be rectified before the exam expires.** Reach me by email for non-emergency situations.

The course will begin on August 19. If you would like to work ahead on assignments, you may. However, you must take exams, enter laboratory results, contribute to discussions, etc., during the appropriate time windows (see the schedule on pages 7 & 8).

Course Description:

The catalog description is as follows: A survey of the sciences of geology, oceanography, and meteorology. Major lecture topics include discussion of earth's geological history, minerals, rocks, dating, plate tectonics, glaciers, volcanoes, ocean currents, marine life, waves, the atmosphere, and weather systems. When appropriate, contrasting views of these subjects will be examined. Laboratory experiences include field trips to areas of local geological interest. Lecture three times per week and laboratory on alternate weeks. Satisfies the physical science requirement of the general education requirements (Fee: \$75). You are taking a mediated (online) section of this course which has a few differences from my lecture class, but covers essentially the same material.

A Few Course Goals (Objectives): 1) Be able to intelligently discuss and think about biblical issues related to earth science and earth history. 2) Understand, appreciate and enjoy the created world in which we live, especially as related to its geology, atmosphere and oceans. 3) Be able to identify various common types of earth features like clouds, rocks, mass movements, streams, volcanoes, sand dunes, plate boundaries, mountains, weather fronts, etc.. 4) Be able to intelligently discuss important issues like global warming, waste disposal, stewardship and the value of earth science education. 5) Realize that there are different ways to interpret earth history depending on what philosophical basis you begin with. As a result, students will be able to engage with those who believe differently than they do. 6) Be able to identify assumptions in various views of earth history. 7) Upon presentation of the course material and careful study of this material by the student, the student will be able to excel on exams and other assignments given by the instructor.

Objectives will be assessed in part with a final comprehensive examination that will include written some written components.

Required Texts, DVD and Computer:

Text book: *Foundations of Earth Science*, 5th ed., Lutgens and Tarbuck, 2008

Lab book: *Encounter Earth*, Kluge, 2009 (HAVING A USED COPY WITH ANSWERS IS CHEATING!)

DVD: *Genesis: The Key to Reclaiming the Culture* (any version) by Ken Ham (available in library)

It is expected that all students have an updated computer with reliable high speed internet access

Should you take a mediated (online) class?

Mediated, or online classes, are not for everyone. To be successful in such a class, you must be self motivated and able to learn on your own without continual reminders from a professor to complete various assignments. If you are not this type of person, you may find a traditional lecture class may fit your needs better. It is generally expected that you will be able to learn all of the lecture and laboratory material provided by the instructor on your own. However, the instructor and other students in the class may help you with difficult to understand topics. Please don't hesitate to contact the instructor immediately if you are having difficulties with the course material.

If you believe you may need support in managing the impact of a disability, please contact Marilyn Meyer, Coordinator of Disability Services for Students. Faculty rely on Disability Services to verify the need for academic accommodations and to identify reasonable and appropriate accommodation strategies. Examples of disability are AD/HD, Specific Learning Disabilities, Hearing, Vision, Health Impairment, Psychological, Orthopedic, and Traumatic Brain Injury. Disability Services is part of the Academic Enrichment Center—The Cove located in the Center for Biblical and Theological Studies, Office #223...Phone 766-3843...email meyerm@cedarville.edu. For more information view the Disability Services website at <http://www.cedarville.edu/departments/aec/disabilities/faculty.cfm>.

How the course is organized:

This course contains three components: lecture, laboratory and discussion. "WebCT/Blackboard" is the software tool that the instructor will use for the course. All of your quizzes, exams, labs and discussions will be administered and graded using Blackboard. You can access the software with your web browser from the Cedarville University web site. If you find Internet Explorer does not work well, try Firefox.

Lecture:

This course will be covering the first six units of *Foundations of Earth Science* by Lutgens and Tarbuck. Each unit will be followed by an exam that is worth 9% of your final grade (lecture is worth a total of 54% of your final grade). Various laboratory assignments from the lab book will be integrated into the lecture units. The laboratory exercises will give you "hands on" experience and help you to understand the lecture material. A "Due Dates" checklist is provided to help you organize your semester and keep track of what is due when (you can find this later in the syllabus). In general, approach each unit of the text as follows:

1. Read the textbook unit highlighting and taking notes like you would do in a normal "lecture" class
2. View and take notes on any provided PowerPoint lectures provided by the instructor on Blackboard and/or any live (or recorded) lectures using Adobe Connect.
3. View and take notes on any supplementary reading provided by the instructor on Blackboard
4. If you need additional help learning the material use the following study aids:
 - a. The GEODE disc found in the front cover of your text
 - b. The online study helps and quizzes found at the text book website
 - c. The end of the chapter review questions following each chapter
5. Complete any associated labs with the unit
6. Participate in discussion for the unit
7. Study all of the material and take your exam!

You will be given two opportunities to take the first lecture exam. The purpose of this is to help you get used to the exam style. Exams will be open book, but it is recommended that you study and prepare for the exams just like you would in a traditional closed book lecture exam. The exams will be timed and you will not have time to look up every answer. So study, and prepare well for each exam!

Exam questions will be selected from a large exam data base which will include questions from the text, readings and PowerPoints. No student will get the same exam. Questions will be selected randomly by the computer. Tests will be open book, but timed. Students are not allowed to work with others during the exam. Such activity is considered cheating and will be dealt with accordingly. The bulk of exam questions will be derived from the textbook material, but also expect material from PowerPoints, readings and supplementary material.

The due dates for each unit exam and the accompanying labs for that unit will be the same. It will probably be impossible for you to complete an exam and several labs on the same day. It is recommended you work ahead on the labs so you don't end up having to complete several assignments on the same day.

Tip: Prepare for the exams as if they were closed book exams. This will allow you to answer most of the questions quickly, allowing you to spend more time on the questions you are unsure of.

Laboratory:

Your lab book is *Encounter Earth* by Steve Kluge. This book contains interactive exercises using *Google Earth*. You will be responsible for completing all 20 exercises in the lab book. Exercises will not be completed in order, but they will be completed along with the lecture material. In other words, the laboratory exercises will compliment the lecture material. Access the book website at http://wps.prenhall.com/wps/media/objects/5770/5908711/encounter_earth/encounter_earth.html. Use the code and instructions in the front of your lab book to access the site. Here, you will find "KMZ" files for each Google Earth Exercise. You can download them one at a time, however it is advisable to click on the link that allows you to download all 20 at once. There are also "quiz" links on this website (BUT YOU CAN IGNORE THEM, THEY ARE THE SAME QUESTIONS THAT ARE IN YOUR BOOK).

SHOW YOUR WORK ON ALL LABS. ANSWER QUESTIONS FULLY AND COMPLETELY.

When you are finished with any particular lab, report the results using WebCT. Correct answers for most of each lab will be supplied when you open the lab quizzes to report your results. Be sure to have a red pen handy. You will be expected to correct your lab book and estimate the percentage of answers that you got correct in each lab. **THIS IS A TIMED EXERCISE, SO WORK QUICKLY AND ACCURATELY.** An "answer" is any activity that you were asked to complete, an answer you were expected to give or a number you were expected to calculate or find. Number answers should be close, but don't have to be exact to be "correct." Further instructions and academic honesty statements will be found within each lab report quiz.

At the end of the semester, you are required to turn your lab book into the instructor so the instructor can verify that you have completed the laboratory work and haven't simply copied the correct answers into your laboratory book. Lab books are due by Friday, December 4, 5:00 (the instructor must have it in his hands by then). This will be the last possible time to turn it in; no extensions. If your lab book is not turned in on time, you potentially could fail the course. Note that in the past, the instructor has carefully checked the lab books and several instances of academic dishonesty have been reported for students who have copied answers and/or reported scores higher than they deserved. Make sure you grade your work carefully and honestly! Please write your name in the upper right hand corner of your lab book for easy identification.

There are 20 labs from this book that are integrated within the lecture material of the course. The laboratory portion of the course is worth 30% of your final grade; making each lab worth 1.5% of your final grade. The labs will be integrated into the lecture material they best fit with. Your instructor views laboratory work as a very important component of the course. Passing the laboratory portion of the course is required to receive a passing mark for the entire course. Those who do not pass the laboratory portion of the course, despite what they may receive on the lecture portion of the course, will not receive a passing grade for the course. You will be required to turn in your lab book at the end of the course so that your answers cannot be shared with future students.

Students may work with others (in the same class) on laboratory assignments, but you may not share lab books. Students may not get laboratory answers from others outside the class (from previous classes, or from previously used lab books). Such activity is considered cheating and will be dealt with accordingly.

Discussion:

Discussion with other students in the class is worth 7% of your grade. You must participate in discussion at least three times for each unit. Posts should be thoughtful and respectful of others. For credit, one post needs to be at least 300 words (a long post) and the other two need to be at least 100 words (short posts). Posts that do not fit within all of these parameters will not be given credit. You will be getting a maximum of 4 points per unit (2 for the long post and 1 each for the short posts).

Because of the way WebCT reports scores, you might see a 1/20 or a 2/20 for some of your discussion scores. Please don't let this worry you. It is the numerator of the fraction that will indicate how many points you earned, not the denominator.

Discussions can start by answering one of the instructor's posted questions (2 are posted for each unit) or by posting responses to another student's post (a "thread"). Either type of post can be counted toward the three posts that you need for each unit.

Two discussion questions are posted for each unit by your instructor "to get the discussion going." The discussion on these questions and their threaded posts must occur while the unit exam for that particular unit is active. In other words, you can't go back and work on previous discussion questions once the deadline for that particular unit exam has expired.

Final Exam:

You will have a comprehensive final exam that will primarily cover the course goals. The test will be administered using WebCT. It will contain both multiple choice questions and essay questions. Expect to identify some photographs as well. The exam will be worth 9% of your final grade. It is open book and contains questions from all of the material covered in the course. It is recommended that you review the PowerPoints and supplementary readings for the exam, although other material will be included.

Grading:

Your grade will be based on a percentage of the total number of points you earn from the total available.

Tests are worth 54% of your total grade (6 @ 9% each = 54%).

Labs are worth 30% of your final grade (20 @ 1.5% each).

Discussion is worth 7% of your final grade.

The comprehensive final is worth 9% of your final grade.

My grading scale is as follows:

A	91.99-100%
A-	89.99-91.98%
B+	87.99-89.98%
B	81.99-87.98%
B-	79.99-81.98%
C+	77.99-79.98%
C	71.99-77.98%
C-	69.99-71.98%
D+	67.99-69.98%
D	61.99-67.98%
D-	59.99-61.98%
F	00.00-59.98%

Keep in mind you must pass the laboratory portion of the course to pass the entire course. A failing lab grade will cause you to fail the entire course despite what you receive on the rest of your assignments.

Extra Credit:

Extra credit assignments are generally not available. It is not my policy to give extra credit at the end of a course to individuals who are failing and “need a few extra points to pass.” Offering individual extra credit is unfair and unethical. When I make extra credit available, it will be available to the entire class. On occasion, I do offer extra credit. For this semester, you may visit the Creation Museum and write a 600 word reaction paper on your experience. To get credit, you must attend this semester (even if you have attended before) and attach your dated ticket (or planetarium pass) to a hard copy of your reaction paper. Turn in a hard copy of the assignment to Dr. Whitmore no later than 5:00 PM on December 4 (I must have it in my hands by this time). The graded assignment is equal in value to two lab exercises (3% of your final grade). You may turn in this assignment at any time during the semester, prior to this deadline.

Discounted Creation Museum passes are now available at the Information Booth in the SSC!

Late Work:

I do not accept late work! Work not completed on time will receive zero credit. It is your responsibility to make sure all of your work is completed by the assigned dates and times. There will be no extensions. You have a “window” of opportunity to complete all of the assignments (in general, ten days or more). It is suggested you complete the assignments for each unit a day or two ahead of time in case extenuating circumstances (like sickness, loss of internet connection, computer problems, etc.) arise which prevent you from completing a set of assignments on the day they are due. Your instructor is not responsible for extenuating circumstances and often will not be able to accommodate them, especially if you wait until the day an assignment is due to talk to him. You must contact the instructor by phone or in person, far in advance of due dates, if circumstances arise which might prevent you from completing assignments on time. Email is often not an

appropriate way to contact the instructor for these types of circumstances because you cannot have immediate dialogue and feedback from him. You will note that most deadlines in this syllabus are two days prior to the actual deadlines you will find in WebCT. Thus, you have a two day grace period for the completion of all assignments. No further extensions are possible. Plan accordingly.

Grading Disputes on Exams and Labs:

The exams are produced from a data bank of questions. Answers to all the questions have been checked against the 5th edition of the textbook. Questions from other material have been generated by your instructor and are also randomly selected from a data bank of questions. After taking the test, you will be able to view the exam, and the answers you have selected, but only during the time the exam is available. If you wish to dispute the answers to various questions, you may, but you need to do so via email within one hour after you have taken your exam. In your email be sure to list the unit exam number and the question(s) you are disputing. It is important you finish the exam well ahead of the deadline if you wish to carefully go through it and find the mistakes you have made, because you will not be able to view the exam after the unit deadline has expired. The same policy applies to your laboratory assignments.

Textbook Unit	√	Assignments (It is suggested you do the assignments consecutively in each unit)	To be completed during this time window
1		Text Introduction <u>PowerPoint</u> : Two Models of Earth History DVD: Genesis the Key to Reclaiming the Culture Text Chapter 1, Minerals Text Chapter 2, Rocks Exploration 1 : Using Google Earth, report answers in Bb Exploration 2 : Interpreting Topographic maps, report answers in Bb Participate in Unit 1 discussion questions Prepare for exam, using study aids if necessary (see syllabus) Take Unit 1 exam	Monday 8-16-09 to Friday 9-11-09
2		Text Chapter 3, Landscapes fashioned by water <i>Dating of Niagara Falls</i> , ICR Impact Article #359 Exploration 3 : Running Water, report answers in Bb Exploration 4 : Deposition, report answers in Bb Exploration 5 : Mass wasting, report answers in Bb Exploration 6 : Groundwater in Karst, report answers in Bb Text Chapter 4, Glacial and arid landscapes <i>The Ice Age and the Genesis Flood</i> , ICR Impact Article #168 <i>Polar Ice Sheets</i> , ICR Impact Article #361 Exploration 7 : Alpine glaciations—active ice, report answers in Bb Exploration 8 : Alpine glaciations—after the ice, report answers in Bb Exploration 9 : Continental glaciation, report answers in Bb Participate in Unit 2 discussion questions Prepare for exam, using study aids if necessary (see syllabus) Take Unit 2 exam	Saturday 9-12-09 to Friday 9-25-09
3		Text Chapter 5, Plate tectonics <u>PowerPoint</u> : Catastrophic Plate Tectonics <i>A Catastrophic Breakup</i> (Article from <i>Answers</i> magazine) Exploration 11 : Plate Tectonics D and T boundaries, report answers in Bb Exploration 12 : Plate Tectonics, C boundaries, report answers in Bb Text Chapter 6, Earthquakes and mountain building <i>Twentieth Century Earthquakes</i> , ICR Impact Article #295 <i>Recent Uplift of Mountains</i> , ICR Impact Article # 381 Text Chapter 7, Igneous activity <u>PowerPoint</u> : Mt. St. Helens <i>Mt. St. Helens and Catastrophism</i> ICR Impact Article #157 Exploration 13 : Volcanism, report answers in Bb Exploration 14 : Volcanism, report answers in Bb Exploration 15 : Volcanism, report answers in Bb Participate in Unit 3 discussion questions Prepare for exam, using study aids if necessary (see syllabus) Take Unit 3 exam	Saturday 9-26-09 to Friday 10-16-09

4	<p>Text Chapter 8, Geologic time <u>PowerPoint</u>:: Dating and Scripture <u>PowerPoint</u>:: Young Age Evidences <u>PowerPoint</u>:: Radioactive Dating <u>PowerPoint</u>:: Dinosaurs and the Bible Young Age Evidences, ICR Impact Article # 384 Carbon Dating Undercuts Evolution, ICR Impact Article #364 <u>PowerPoint</u>:: Noah's Flood Exploration 16: Structural Geology, report answers in Bb Exploration 17: Geologic History, report answers in Bb Exploration 18: Geologic History, report answers in Bb Participate in Unit 4 discussion questions Prepare for exam, using study aids if necessary (see syllabus) Take Unit 4 exam</p>	<p>Saturday 10-17-09</p> <p>to</p> <p>Friday 10-30-09</p>
5	<p>Text Chapter 9, Oceans <u>PowerPoint</u>:: Seafloor vents Article: <i>Salty Seas: Evidence for a Young Earth</i> Text Chapter 10, Ocean circulation and coastlines <i>Supersize Tsunamis</i> ICR Impact Article #382 Exploration 10: Shorelines, report answers in Bb Exploration 19: Natural Hazards, report answers in Bb Participate in Unit 5 discussion questions Prepare for exam, using study aids if necessary (see syllabus) Take Unit 5 exam</p>	<p>Saturday 10-31-09</p> <p>to</p> <p>Friday 11-13-09</p>
6	<p>Text Chapter 11, Heating the atmosphere Text Chapter 12, Moisture, clouds, precipitation Text Chapter 13, Atmosphere in motion Text Chapter 14, Weather patterns and severe weather <i>Earth's Climate Thermostat</i>, ICR Impact Article #339 <i>The Christian and the Greenhouse</i>, ICR Impact Article #204 <i>Global Warming</i>, ICR Impact Article #406 Exploration 20: Impact Structures, report answers in Bb Participate in Unit 6 discussion questions Prepare for exam, using study aids if necessary (see syllabus) Take Unit 6 exam</p> <p>MAKE SURE YOU SEND YOUR LAB BOOK TO THE INSTRUCTOR. HE MUST HAVE IT IN HIS OFFICE BY FRIDAY, DECEMBER 4, 5:00 PM.</p>	<p>Saturday 11-14-09</p> <p>to</p> <p>Friday 12-4-09</p>
	<p>COMPREHENSIVE FINAL EXAM (The Exam will open on December 5)</p>	<p>Saturday 12-5-09</p> <p>to</p> <p>Tuesday 12-8-09</p>

Bb = WebCT/Blackboard

Fall 2009 schedule for John H. Whitmore, Associate Professor of Geology:

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	Monday	Tuesday	Wednesday	Thursday	Friday
8:00	Office	Intro to Physical Geology Lab ENS 248	Office	Office	Office
9:00	Into to Physical Geology MIL 131		Into to Physical Geology MIL 131	Office	Into to Physical Geology MIL 131
10:00	Chapel	Chapel	Chapel	Chapel	Meeting
11:00	Earth Science ENS 245	Office	Earth Science ENS 245	Office	Earth Science ENS 245
12:00	Lunch	Lunch	Lunch	Lunch	Lunch
1:00		Earth Science Lab ENS 248	Earth Science Lab ENS 248		
2:00					
3:00		Earth Science Lab ENS 248	Earth Science Lab ENS 248		
4:00					
6:00-10:15		Geomorphology Lecture and Lab			