

# Historical Geology II – GEOL 30143

Lectures & Lab for Spring, 2009

Dr. Arthur B. Busbey III



Class: Tuesday & Thursday, 8:00 AM– 9:20 AM  
Lab: Tuesday 1 to 3:20 or thereabouts  
Instructor: Dr. Arthur B. Busbey III  
Email: a.busbey@tcu.edu  
Prerequisite: Geology 30133 or permission  
Office: SWR 254  
Office Hours: Officially, MW 1–1:50, but feel free to find me at any time.  
Contact: 257–7301 Office, 370–6006 Home, Email: a.busbey@tcu.edu, AIM/  
iChat: abusbey, SKYPE: a.busbey  
Required text: Evolution of the Earth, 7th Ed. (2004), Dott & Prothro, McGraw Hill.

## GRADING

The grade will be based on the results of two lecture exams (25% each), a comprehensive final exam (20%) & a lab grade (30%). Letter grades are assigned only at the end of the course approximately as follows: A=90–100%, B=80–89%, C=70–79%, D=60–69%, F=0–59%. The final letter grade will be based on the adjusted average of your course performance. For any particular exam the grade distribution will be posted which should provide some idea of your test results compared to the rest of the class.

Text readings supplement the material discussed in lecture; frequently lecture topics represent recent developments & may not be discussed in the text. Therefore, reading is not a substitute for attending lectures; exams are entirely based on lecture content.

## EXAMS

No make-up exams will be given unless you have a signed excuse from a physician. An unexcused absence will result in a score of zero. Students caught cheating might be drawn & quartered, flayed alive or sent to an antipodal penal colony. Students with University excuses to miss labs or exams must notify me at least one week in advance of the absence. You are expected to be familiar with & abide by the University's Academic Conduct Policy outlined in the 'Undergraduate Studies Bulletin'.

## CLASS ATTENDANCE

It is in your best interest to attend class. Past experience has shown that students who do not attend class do poorly on lecture exams. I will assume that you have read the assignment prior to each class & that you will be acquainted with basic terminology & concepts & the previous lectures notes. Do not hesitate to ask questions during class or to obtain help from me outside of class. Please feel free to drop in to my office (SWR 253) if you have problems in lab or lecture.

## LABORATORY EXERCISES

Lab exercises have little to do with lecture topics. It is crucial that you are punctual for lab and that you read any materials before you come to lab! There is one Saturday field trip that is absolutely mandatory.

Two lab exams (times noted on the syllabus) will be given during the semester. These exams test your knowledge of concepts learned in the lab. The average of these two exams (25% each), the grade for your labs (25%) & the paleo project (25%) will be calculated at the end of the semester & will count 30% towards your final course grade. You should bring your class textbook to lab. You must purchase a lab notebook that will be used for making sketches and taking notes. In many instances you may want to refer to your textbook during lab exercises. A good pencil and eraser will also be h& in lab (ink is usually difficult to erase).

## LAB MAKE-UP POLICY

You will be allowed to make up labs for which you have obtained an excuse from the Dean of Students or a physician, or if you are covered by a University notice.

Lab make-ups take place in lab at my discretion. You can only make up labs prior to the next lecture exam.

| Day     | Lecture                                  | Chapter(s)     | Lab                                      |
|---------|--|----------------|--|
| Jan. 13 | Introduction and evolution               | 1, 2, 3        | No Lab Week I                            |
| 15      | Origin of the solar system and the earth | 6, 8           |  |
| 20      | Precambrian rocks and environments       | 8              | Fossil Plants                            |
| 22      | Scenarios of the origin of Life          | 9              |  |
| 27      | The pattern of Precambrian life          | 9              | Sarcodina and Porifera                   |
| 29      | Paleozoic rocks and environments         | 10, 11, 12, 13 |  |
| Feb. 3  | The Cambrian-Precambrian boundary        | 9              | Cnidaria                                 |
| 5       | Life of the early Paleozoic              | 10, 11         |  |
| 10      | Life of the middle Paleozoic             | 12             | Bryozoa & Brachiopoda                    |
| 12      | Life of the late Paleozoic               | 13             |  |
| 17      | The ascent of vertebrates                | 13             | Bryozoa & Brachiopoda                    |
| 19      | The Permo-Triassic extinctions           | 13             | Mandatory Field Trip - Saturday 21       |
| 24      | EXAM #1                                  |                | Work on fieldtrip fossils and study      |
| 26      | Mesozoic rocks and environments          | 14             |  |
| Mar. 3  | Mesozoic rocks and environments          | 14             | LAB EXAM #1                              |
| 4       | Early Mesozoic life - Triassic           | 14             |  |
| 10      | Middle Mesozoic life - Jurassic          | 14             | Mollusca I - Scaphopoda and Gastropoda   |
| 12      | Late Mesozoic life - Cretaceous          |                |  |
| 24      | Dinosaurs in Fact and Fiction            | 14             | Mollusca II - Pelecypoda and Cephalopoda |
| 26      | The terminal Cretaceous extinctions      | 14             |  |
| 31      | Cenozoic rocks and environments          | 14             | Arthropoda                               |
| Apr. 2  | Cenozoic rocks and environments          | 15, 16         |  |
| 7       | Early Cenozoic life                      | 15, 16         | Echinoderms                              |
| 9       | Late Cenozoic life                       | 15, 16         |  |
| 14      | The fossil record of humans              | 15, 16         | Study for Lab Exam                       |
| 16      | The terminal Pleistocene extinctions     | 16             |  |
| 21      | Trends in the fossil record              | 16             | LAB EXAM #2                              |
| 23      | Review and study                         |                |  |
| 28      | EXAM #2                                  |                | All Projects Due                         |

The final is Wednesday, May 6<sup>th</sup>, at 8am.