I. INSTRUCTOR
Name: W. Vernon Kramer
Email: wkramer@delmar.edu
Office: CB-341 (Coles Building)
Office Hours: See Back of this page
Office Phone: 698-1385 (With voice mail)
Dept. Phone: 698-1240 (Garcia Science Bldg.)

Assessment levels required: R3, E3, M2

II. COURSE DESCRIPTION:
Introduction to geologic time; relative and absolute dating methods; stratigraphic principles; origin of the universe, solar system, atmosphere, oceans, life; changes on the earth’s surface and development of organisms through geologic time. R3, E3, M2

III. PREREQUISITES: None
CO-REQUISITE: Majors needing a science – take Historical Geology 1304 (which is required for geology majors).

IV. STUDENT LEARNING OUTCOMES:
1. Demonstrate an understanding of geology’s greatest contribution to human knowledge—the realization and full appreciation of the true magnitude of geologic time using lab techniques.
2. Use various methods to elaborate on how geology has been applied in the study of the rock record to determine the history of the Earth, including the history of life on Earth as revealed by fossils, using lab techniques.
3. Elaborate on the major events and important milestones in the history of the Earth and the evolution of its biota. (What happened and when it happened, using lab techniques.)
4. Describe the history and components of our universe and the role of the Earth in the larger context of planetary processes within our solar system, using lab techniques.
5. Skills that you will utilize include reading, writing, drawing, speaking, working with computers, use of microscopes, cooperative learning, and critical thinking, using lab techniques.

V. GENERAL DESCRIPTION OF THE SUBJECT MATTER OF LECTURES BY WEEK:
See attached schedule

VI. TEXTBOOK

VII. TECHNOLOGY REQUIREMENTS:
Access to a computer & printer; students are expected to regularly check their DMC email

VIII. OTHER CLASS MATERIALS:
Most labs will utilize handouts which you can keep. Also labs will use DMC maps, books, & other items.
Please do not write on or otherwise mark on the DMC material. It is suggested that all work, unless otherwise indicated, be done in pencil – not pen!

IX. METHOD OF EVALUATION
1. Lab points will be earned from in-lab and take-home assignments.
2. Every lab will have a graded exercise; some simple, some complex (rarely allow make-ups)
3. Some labs cannot be made-up and you will receive a zero for that missed lab.
4. You will receive a separate grade for this laboratory on your transcript.
5. A probable maximum of 620 points can be earned from laboratory exercises. (does not include extra credits)
6. You may want to use the Historical Geology Lab “report card” to keep track of your lab grades.
7. There is no laboratory final.

<table>
<thead>
<tr>
<th>Grade Range</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>558 points minimum</td>
<td>(90% or better of 620 points)</td>
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<tr>
<td>496 to 557 points</td>
<td>(80% --89% of 620 points)</td>
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<tr>
<td>434 to 495 points</td>
<td>(70% --79% of 620 points)</td>
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<tr>
<td>372 to 433 points</td>
<td>(60% --69% of 620 points)</td>
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<tr>
<td>less than 371 points</td>
<td>(less than 60% of 620 points)</td>
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F. If your point total is very close to the next higher grade, your final score will be dependent on attendance, completion of assignments (such as web hits), and class participation.

X. ATTENDANCE:
State Law: ENROLLING FRESHMEN post FALL 2007 ARE ONLY ALLOWED 6 DROPS IN COLLEGE CAREER!!!!
1. Required because of model demonstrations and student use of materials (fossils, maps, computers, scopes).
2. Regular attendance is necessary for successful completion for any Geology course as per Del Mar College Catalogue. Attendance is your responsibility, but you may be dropped with a second LAB absence.
3. Roll will be taken for each class. Late arrivals are disruptive to the lab (more than 10 minutes late or early departure will be counted as an absence. Try to be on time.

XI. ABSENCES
1. It is the student’s responsibility to make up missed laboratories.
2. The only way to make-up labs is to attend another lab, if there is one that covers the same material.
3. If you cannot make up a missed lab by attending another lab, you will need to contact me for possible assignments and handouts. Try to get missed notes from a classroom first. (Be cautious when loaning notes as you may not get the notes back!)
4. All lab work must be completed in a timely manner. Late work may be penalized. Late or makeup work will not be accepted after the particular assignment or exercise has been graded and returned to other students in your class, which is usually the next class meeting.

XII. WITHDRAWAL FROM CLASS
State Law: ENROLLING FRESHMEN POST FALL 2007 ARE ONLY ALLOWED 6 DROPS IN COLLEGE CAREER
1. REPEATING: YOU MAY BE DROPPED FROM EARTH HISTORY FOR NONATTENDANCE OF LAB ON THE SECOND ABSENCE
2. If for any reason that you can no longer attend class, be sure you officially drop the class through the Registrar’s Office. IF A STUDENT STOPS ATTENDING CLASS BUT DOES NOT OFFICIALLY DROP, SO THAT THEIR NAME IS STILL ON MY ROLL AT THE END OF THE TERM (AND THEY DO NOT HAVE ENOUGH POINTS TO PASS), DMC POLICY REQUIRES THAT THE STUDENT RECEIVE AN AUTOMATIC “F”.
3. IMPORTANT DATE: November 23 – Last day to drop the course. Students who drop will receive a “W” for the course. After the date of November 23, 2015, your name cannot be removed from the final roll that I must use to record grades for the Registrar’s Office, and you will therefore receive a letter grade of F for the course. Remember the state law.

XIII. SAFETY
1. All Geology Laboratory students are required to review a safety lecture given by the Science Dept. on Canvas. All students must pass the computer exams, before attending future labs, indicating that they are safety certified. NO EXCEPTIONS.
2. All students will be required to sign a liability waiver prior to going on field trips.
3. Some rocks and minerals may have sharp edges, especially if they have been dropped and broken. Handle with care.
4. Please do not “adjust” the “backs” of the chairs; if not tightened properly, a fall could result.

XIV. STUDENTS WITH DISABILITY
STUDENTS REQUESTING DISABILITY ACCOMMODATIONS OR INFORMATION ARE ENCOURAGED TO CONTACT THE OFFICE OF SPECIAL SERVICES, RM 188, HARVIN CENTER (698-1298)

XV. EXPECTED CLASSROOM ETIQUETTE
1. If your cell phone rings during class, I will assume that it is an emergency and that you will be leaving the classroom to answer! PLEASE DO NOT USE TEXT MESSAGING WITHIN THE CLASSROOM DURING LECTURE – GO OUTSIDE THE ROOM TO USE
2. Please do not bring your children, friends, nor guests under normal circumstances (BUT check with me for emergencies, BECAUSE I WANT YOU THERE IN THE CLASSROOM); neither food nor drinks are usually permitted in class.
3. PLEASE CLEAN UP ANY AND ALL TRASH AT YOUR LABORATORY STATION BEFORE YOU LEAVE.
4. PLEASE PUSH IN YOUR CHAIR BEFORE YOU LEAVE THE LAB ROOM

XVI. TENTATIVE LABORATORY TOPICS

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<thead>
<tr>
<th>laboratory topics</th>
<th>fossils</th>
<th>the changing earth</th>
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<tbody>
<tr>
<td>1. Syllabus review and Safety exam on Canvas/ Microscope Exercise</td>
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<td>Handout</td>
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<tr>
<td>2. Minerals and Rocks (Review)</td>
<td>Ch. 3-7</td>
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<tr>
<td>3. Relative Age-Dating of Rocks</td>
<td>Ch. 17</td>
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<td>4. Correlations of Rocks</td>
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<td>5. Actual Age-dating of Rocks</td>
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<td>6. Geologic Structures and Geologic Maps</td>
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<td>7. Plate Tectonics</td>
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<td>8. Introduction to Fossils</td>
<td>Ch. 1, 18</td>
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<td>9. Fossil Lab #2</td>
<td>Ch. 18-23</td>
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<td>10. Fossil Lab #3</td>
<td>Ch. 18-23</td>
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<tr>
<td>11 Fossil Lab #4</td>
<td>Ch. 18-23</td>
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<td>12. Sediment Analysis</td>
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<tr>
<td>13. Sedimentary Rocks</td>
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<td>14. Astronomy</td>
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Since we have no lab manual. handouts will also be used with all of these labs!

Office Hours: Mon: 3:00 - 5:00; Tu: 4:00 – 4:50; Wed: 3:00 – 5:00; Th: 9:30-10:30 (Friday by appointment)

IF YOU FEEL THAT YOU CANNOT REGULARLY MAKE THE NIGHT LABS, YOU SHOULD DROP NOW!