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Fall 2015

EES 3100

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University of New Orleans

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EES 3100 EARTH STRUCTURES Fall 2015

Instructor: Dr. Mark Kulp, Department of Earth and Environmental Sciences
Meeting times: Tuesday and Thursday 9:30-10:45
Office: 1029 Geology and Psychology Building)
Phone: 280-1170; Leave a message (If I don't call back within 12 hours then I didn't get the message)
Email: mkulp@uno.edu Surefire way to contact me!
Office Hours: Tuesday and Thursdays 11-12, Wednesdays 11-2 or by appointment
Textbooks: Structural Geology of Rocks and Regions, 3rd Edition; George Davis, Stephen Reynolds, Charles Kluth, John Wiley and Sons, Inc.
Other things you will need:
Colored pencils, protractor, centimeter-scale ruler, calculator

Student Learning Outcomes: *Earth Structures* is designed to introduce you to the description and analysis of geologic structures on planet Earth. This course explores the type and distribution of structures as they relate to styles and processes of deformation that result of a dynamic planet. I expect that you will leave this class with your senses "tuned" for geologic structures and a deeper understanding of the importance of geologic structures in deciphering Earth history.

Class structure: As listed, this class consists of two, one-hour and 15 minute meetings each week. Class time will vary between lectures and laboratory time. I will attempt to let you know in advance of any plans I have for the format in upcoming days. Generally, lecture time will consist of me introducing you to new material through lecturing, slides, and other multimedia-type things I can conjure up; whereas laboratory time will focus on the completion of assignments that will contribute to your understanding of material. Laboratory may also serve as a time to introduce material that cannot be covered in lecture.

Course Evaluation

Grading: Total class grade: over 90% = "A", 80% = "B", 70% = "C", and 60% = "D".

Exam #1 (9/18)	15%
Exam #2 (11/6)	15%
Final Exam (12/11)	20%
Lab Assignments	35%
Field Trip Report	10%
Attendance	5%

If you do not attend the field trip there will a 7-10 page paper requirement and powerpoint presentation that will count toward 10% of your final grade

Extra Credit: None. Don't ask. Likewise, don't ask to makeup missed assignments due to unexcused absences.

GEOL 3100 Syllabus Details:

Exams: There will be two one-hour exams and a two-hour final exam. Exams will consist of short answers, essays, and/or problems for you to work. All material covered in class or on assignments is open for test questions. Final exam will be cumulative in coverage.

Assignments: The purpose of assignments is to allow you to enhance your understanding of material covered in class and explore avenues that time does not allow to be covered during lectures; **the assignments are an integral component of this class.** The focus will be on developing the skills and tools necessary for a critical analysis of Earth structures. Some assignments will be collaborative exercises where you are expected to share your knowledge with the other students around you in class, whereas others will be solo assignments. You will be informed of assignment due dates.

Any assignment turned in after the beginning of class on the specified due date will be considered late, an assignment not handed in by the end of the day it is due will not be accepted without a valid University excuse. Assignments turned in late, will be graded **with a 10% penalty**. Make-ups will only be given for verifiable written excuses specifically recognized by the University (illness of the student, or of an immediate family member, death of an immediate family member, participation on trips related to certain University functions, major religious holidays). If you miss any classes, you must **promptly** contact the teaching assistant or me if you have any hope of making up material. Make-ups after one week has passed will be permitted only under extenuating circumstances.

Class Attendance: If you do not attend class you will miss assignments on a regular basis. Structural geology is a complicated, rigorous subject that I will attempt to portray to you in a sensible fashion. You will enjoy the course more and in get a much better grade if you attend regularly.

Other not so trivial stuff:

Exam Conflict for University Approved Reasons: If you have an official conflict with one of the course examination dates for an officially sanctioned University reason, you may seek to take that exam at a different time or date. However, you must follow University guidelines in seeking such a rescheduling. Typically, this means seeking the change as early as possible, and in no instance less than 2 weeks before the examination date.

On Working Together and Plagiarism: You will be encouraged to study together for tests, in most cases, work together on homework assignments. I have found in the past that students who engage in such collaborative learning typically do better. Any work that is turned in for a grade, however, **must be your own expression of your own understanding of the material**. Your ability to express yourself in writing is a key component of education and an essential goal of this college, and your writing can too easily be influenced by word choices of classmates. **DO NOT** copy directly from anyone else. **DO NOT** even look at what they have **written**. Ask questions and argue with a classmate about the magnitude of throw along a fault, but **DO NOT** ask to look at what a classmate has written on the subject. **DO NOT** copy sentences directly from a book or article. Do your own writing based on **your** understanding of the material. See me if you have questions regarding plagiarism. Suspicion of plagiarism will result in a private conversation with the instructor. Confirmation of plagiarism is subject to the minimum of failure for the class, as per University regulations.

Academic Integrity: Academic integrity is fundamental to the process of learning and evaluating academic performance. Academic dishonesty will not be tolerated. Academic dishonesty includes, but is not limited to, the following: cheating, plagiarism, tampering with academic records and examinations, falsifying identity, and being an accessory to acts of academic dishonesty. Refer to the Student Code of Conduct for further information. The Code is available online at <http://www.studentaffairs.uno.edu>.

Accommodations for Disabilities: It is University policy to provide, on a flexible and individualized basis, reasonable accommodations to students who have disabilities that may affect their ability to participate in course activities or to meet course requirements. Students with disabilities should contact the Office of Disability Services as well as their instructors to discuss their individual needs for accommodations. For more information, please go to <http://www.ods.uno.edu>.

How to do really WELL in this class: My advice: #1) Be attentive in class and take voluminous notes. #2) Read through the chapters *before* coming to class. Spend time with your notes. #3) Ask questions in class and come to me outside of class if you have questions. #4) Know what every term means, strive to fully comprehend the material. #5) Find someone to study with who cares about doing well, #6) Spend ample time on the assignments and complete them in a timely fashion.

Your expectations of me: You should expect a teacher who cares about your learning and attempts to make the subject interesting, meaningful and challenging. You should expect fair and timely evaluation of assigned work. You should expect to feel comfortable enough during class to raise questions without ridicule or embarrassment and to have questions addressed when relevant.

My expectations of you: I expect students who are eager to learn, who come to college to learn about the world around them and who recognize the value of learning above grades. I expect to be respected during class time by giving your full attention. I expect you to respect your colleagues who have come here to learn and not to disrupt them by reading the paper, talking, or doing other inappropriate activities during class time. I expect you to be on time to class, sit towards the front and not to leave until class is over. I expect you will keep up with the material covered by reading ahead, asking questions and rereading notes.

GEOL 3100: LECTURE SCHEDULE (subject to modification)

Date	Topics	Chap.
8/20	Lecture: Structural Introduction, Earth Structure Assignment: Geologic Maps and Cross Sections	1
8/25-8/27	Lecture: Descriptive Analysis, Primary Structures Assignment: Lines and Planes; Graphic and Trigonometric solutions	2
9/1-9/3	Lecture: Force, Stress, and Strain; Rheological Models Assignment: Outcrop patterns, Structure Contours	3
9/8-9/10	Lecture: Deformation Mechanisms Assignment: Outcrop patterns, Structure Contours	4
9/15-9/17	Lecture 9/16 Catch Up: 9/17 Exam #1	
9/22-9/22	Lecture: Brittle Deformation: Joints, Veins, and Faults Assignment: Structure Maps	5,6
9/29-10/1	Lecture: Faults Continued	6
10/6-10/8	Lecture: Folds and Folding Assignment: Stereographic Projections	7,8
10/13-10/15	Lecture: Folds and Folding; Fall Break 10/15	7,8
10/20-10/22	Overview of Appalachian Geology, Final Field Trip Preparation Depart for Alabama Field Trip 10/22 6:00am	Article Posted On Moodle
10/27-10/29	Lecture: Rock Fabrics and Shear Zones	9,10
11/3-11/5	Lecture: Rock Fabrics and Shear Zones; 11/5 Exam #2	
11/10-11/12	Lecture: Extensional Tectonic Terranes Assignment: Cross Sections	9,11
11/17-11/19	Lecture: Convergent Tectonics	11
11/24-11/26	Lecture: Strike Slip Zones; 11/26: Thanksgiving Holiday	
12/1-12/3	TBD	
Thursday 12/10	Final Exam!! 10 am-12 noon, The final is comprehensive.	