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Division: Nature Sciences and Math Department: Geology Title: Historical Geology Semester Approved: Autumn 2017 Cine-An Review Semester: Autumn 2022 End: Autumn 2023 Catalog Description: This course is an introduction to the principles involved in deciphering the earth's past, including the study of fossils. It will also cover major physical and biological events in the history of the earth. This course is designed for major geology. It's going to take a trip. Semesters offered: Spring Credit/Time Required: Credit: 3; Course: 3; Lab: 0 Clock/Hour Requirements: 0 Prerequisites: GEO 1110 or 1010, ENGL 1010, MATH 1050, BIOL 1010 or instructor permission Corequisites: GEO 1225 Justification: This course is the second in a sequence of courses designed for the first year of major geology. It is necessary in all geology programs as a prerequisite for many other successive courses for geology majors. It also serves as a course to introduce fossil study and earth history for students interested in these subjects. This course is a common number of course at other public colleges in the Utah higher education system. Transfer as GEO 1220 to all USHE institutions. Student Learning Results: Upon successful completion of this course, a student will: ? explain the basic principles of historical geology, would be: a topical superposition a correlation of rocks o facies, etc?? describes the historical development of the science of geology? describe and use relative and absolute dating methods? understand the characteristics of the different environments in which sedimentation and life take place? vcomprehension and apply the basic principles of stratigraphy? interpret the conditions under which all types of rocks were formed? understand the theory of tectonic plates today and so applies to the formation of rocks in the past? understand the mountains? classify and identify fossils of at least kingdom and phylum? understand the basic principles of fossil interpretation and fossil records? to understand the theory of evolution so describes the changes in life on earth over time? understand the development of the geological scale of time and the means by which geological ages are determined? describe the current knowledge about life and the conditions that existed during different eras and periods of geological time based on fossils and rock records? have a basic knowledge of the geological history of the earth, with a specific focus on North America and Utah? keep accurate and reliable field notes? He's interpreting geology in the field. Students will be evaluated by presence, questionnaires, examinations and field reports Content: This course will include: • Basic principles of historical geology (and their origins) • Sedimentary environments • Averages and life • Absolute rock dating • Relative rock dating and correlation • Classification of life/fossils • Evolution and recording of fossils • Tectonics of plates and mountain construction • and early early beginning of the solar system and the Earth • Origin of Life • Rock and Fossil Record of the Archean Eon • Rock and Fossil record of the Pro-Eon Pro-Erosion • Rock and Fossil Record of the Paleozoic Era • Rock and Fossil Record of the Mesozoic Era • Rock and Fossil record from the Cenozoic Era. Key Performance Indicators: 3-4 examinations (multiple choice, Short answer and essays): 40 -60% trip: 5 - 10% homework and questionnaires: 10-20% comprehensive final course 20-30% Representative Text and/or supplies: J. Viewing Earth History by Loren Babcock current edition. Pedagogical Statement: Maximum Class Size: 20 Optimum Class Size: 12 Course: Plant Sciences Building (036 PLS) 1113 9:00-9:50 AM MWF Laboratory Geology Building (237 GEO) 2107 2:00-5:00 pm W Instructor: Dr. Thomas R. Holtz, Jr. Room: Geology Building (237 GEO) 4106 Office Hours: Th 11 am-noon, or by Phone Appointment: (301) 405-6965, E-mail: ELMS or tholtz@umd.edu NOTE: It is your responsibility as a student to read completely through and understand this curriculum. If you have any questions about this, please contact Dr. Holtz. You will be held responsible for complying with all the requirements of this program. LEARNING RESULTS: By the end of the semester, each student should be able to: Identify the major techniques used by geologists to evaluate paleoenvironments and the sequence of events found in the rock recording Recognize the sequence and interrelationships between major events in Earth's history, its surface area, and its life forms properly classified different types of sedimentary rocks & major structures and groups of fossilizing organisms from hand samples Correct interpretation of geological cross-sections, fence diagrams & other stratigraphic diagrams and geological maps Course organization: 3 meetings per week (Monday, Wednesday, Friday), 1 laboratory per week (Wednesday). Trip: 1 non-binding trip is planned: Saturday April 18: historic geology from western Maryland (the latest Precambrian through the Triassic). This trip is non-binding and non-classified, but it will greatly advance your understanding of historical geology; in addition, there will be opportunities for the collection of rocks and fossils on this journey. Lectures lost due to late University openings or cancellations or the absence of the instructor (OR FREAKING GLOBAL PANDEMIC!!!!) will be compiled as Panopto videos on the ELMS page. Grade: Grade Percentage Average Exam I: 20% Average Exam II: 20% Final Exam: 20% Laboratories: 25% Questionnaires: 15% Grade Scale: The given numbers represent the thresholds that must be passed to reach this grade (eg A+ is 97,000 ... and any higher number). There is no rounding for letter notes; thresholds must be exceeded. F is any grade below D-. Thresholds: 97, A+: 93, A: 90, 87, B+: 83, B: 80, B-: 77, C+: 73, C: 70, C-: 67, D+: 63, D: 60, D-: < 60, F. The final note is the algebraic sum based on the numeric notes. Intermediate exams (20% each): A pen-and-paper exam on 2 March and a ELMS exam from April 15-19, respectively. Absence from exams will not be excused, except for those causes approved by University policy at the University of Maryland Undergraduate Catalog. Only those students excused for these cases will be eligible for a make-up exam. The second medium and last term are available for a period of five days (15-19 April and a date to be set pending the revised Policy of the University, respectively.) For each of these there will be a section composed of true/false, matching, several options, and similar type questions, as well as a few short answer questions. These exams are closed-note and are subject to the University's commitment of honour; you can't ask for help from other people and sources in doing these. Exams are delivered on ELMS using lockDown Browser: you may be prompted to download a plugin to ELMS to implement this. You will have 60 minutes to complete the exam. You can only take it once. Because they are accessible on the web, there are no excuses for their absence (except for extraordinary circumstances: contact Dr. Holtz in this situation.) Failure to present the exam correctly on ELMS during the time period results in a 0 for that exam. If you encounter a technical problem, please contact ELMS@umd.edu for help (and Dr. Holtz, so he is aware of your situation.) Final exam (20%): A final exam based on ELMS (using the policies described above) during the regularly scheduled exam season; specific date to be announced pending revised University policies.. It is cumulative for the entire course, but does not focus on material from the Mesozoic and Cenozoic eras. The format is similar to intermediate exams. Questionnaires (15%): Weekly questionnaires will be offered either in class or in the laboratory (depending on the time available that week) before the spring break, and on ELMS afterwards, but which highlights the material in the lectures. These will usually be multi-variant, white, match, or true/false. The two smallest questionnaires will be automatically abandoned: this is how missed questionnaires will be accommodated. Labs (25%): Essentially, every week there will be a laboratory. Laboratories are due in the week after they are assigned, allowing students time to examine specimens throughout the week if they wish. For more information, see the separate laboratory syllabus. There is no separate laboratory manual this year: laboratory materials (pdfs and videos) are provided on ELMS. Labs are enabled on ELMS: either as inputs or as uploads. Mandatory text: Course text: History of the earth system. Fourth edition. by Steven M. Stanley & John A. Luczaj W.H. Freeman ISBN-13 978-1429255264 Additional text: Maryland's Geology. Second edition. by Martin F. Schmidt, Jr. (2010, Schiffer Publishers) ISBN-13 978-0764335938 Website: tholtz/G102/ Expatials and Policies Expectations & Expectation: Historical Geology is a fundamental course for the major. Many of the subsequent courses -- Sedimentology & Stratigraphy, Structural Structural Geochemistry, Field Geology, and maybe even your senior thesis - will be based on methods, concepts, and terms derived from this class. If you hope to earn a good grade for the class, and keep the information for future classes, make sure you keep up with readings (from textbooks and online course notes), and make sure you understand the concepts and information. If you have problems, feel free to ask questions (in class, by email or in office hours) Attending classes is expected. PowerPoints will not be provided to students, although there are detailed course notes online. If you can't give a specific lecture, try finding another student who might lend you their notes. (In fact, setting up a study group at the beginning of the course has proven useful for many students in the past). NOTE: Presence means more than mere presence: it means attention. Please remove ear buds and refrain from texting/web-browsing/doing homework/etc in the classroom and in the lab. Communication: Communication in this course will be done primarily through the ELMS inbox email system. In case of bad weather or other unexpected emergencies, the University may close. Please refer to the University's homepage or call 301-405-7669 (SNOW) to confirm such cancellations. Dr. Holtz will contact students through ELMS to inform them of delays in the due dates for projects to be taught or for exams: they will usually be moved to the next available class date. Memory: As part of the nature of the course, there will be a lot of memorization (less than a foreign language class, but more than that found in more mathematically oriented introductory research classes). This will include a lot of anatomical, geological and paleontological terms, as well as evolutionary and temporal relationships. If you have difficulty remembering, this may not be class for you. Also, if there are words or concepts you are not familiar with, feel free to ask Dr. Holtz (in class, by class, over email, etc.) for an explanation or clarification. General Policies: The University has provided a page on academic policies here. Each student is responsible for reviewing this page on academic integrity issues; student code of conduct; Sexual behavior; Discrimination; Accessibility; Lost presence, absences or assignments; Students' rights with regard to bachelor's courses; Official communication umd; Average classes; Complaints about the final notes of the course; Copyright and intellectual property; Final examinations and course evaluations; and Campus Resources. For details on this course, see the following: Laptop / Tablet / Smartphone Use: Recent studies have shown that: Towards this end, I very I encourage you to take notes through pencil/pen and paper. It is for your academic benefit to do so. If you choose to take notes using a computer, you agree to the following conditions: Using your computer is to follow along with course notes, taking notes yourself, or searching for additional information (via Wikipedia, journal articles, and similar sites) on the course issue. You will refrain from using your computer from any or all of the following during class hours: performing class tasks for this class or other classes; use of social networks, text messages, email or other electronic means of communication; viewing any websites or apps other than those listed in the first bullet point (e.g. without checking news, entertainment, sports, shopping, etc.). Failure to use the computer will mean that the use of the laptop & smartphones by all students in the class will be prohibited for the rest of the semester. We apologize to those students who prefer to use this method to take notes, but this is the only effective way to deal with bad actors. When not in use, smartphones, tablets, laptops and all other electronic communication modes must be turned off and stored during class and discussion hours. (NOTE: using your smartphone between the legs under the desk is not stored away, and you are not and have not fooled a teacher or instructor when trying that...) If you are using the device to record your lectures, please turn them on, then leave them untouched for the rest of the course. That said, there may be some group activities in which we use individual laptops/tablets/smartphones in class. Dr. Holtz will make every effort to inform you of this in advance. However, in these situations you can only use these devices for the work at hand. Course Assessments: CourseEvaluM will be open for students to complete their assessments in the last two weeks of the semester. Students can access CourseEvaluM through ELMS to complete their assessments. You will be alerted to this data and provided more information closer to that time, and students will be alerted through their official University email account. Students who complete assessments for all their courses in the

previous semester (except summer) can access the results posted via the Testudo's CourseEvaLUM Reporting link for any course on campus that has at least a 70% response rate. You can find more information, including regular updates, on the IRPA course evaluation site. The expectation is for all students to complete them. This is your chance to anonymously evaluate this class; please use this opportunity! Copyright: © 2020 Thomas R. Holtz, Jr. on this syllabus, all lectures, and all written materials provided in this course. Students are prohibited from copying and selling course, sell course notes and be paid to take course notes without the express written permission of the teacher teaching this course. Violations of this prohibition will be treated as violations of the University's Honor Code and reported and dealt with accordingly. Schedule & Lecture Notes Laboratory Syllabus & Policies For printable printable format complete schedule, click here. Last modified: 25 March 2020 Strata from Formation of the Superior Jurassic Morrison to Formation of the Upper Cretaceous Border, Bighorn Basin, WY

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