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# Geography 1000-001: Earth Environments & Global Change

## Class Syllabus Fall Semester, 2022 (Credit Hours: 3)

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### Course Description

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"**Earth Environments and Global Change**" (3) - Fulfills Physical/Life Science Exploration requirements at the University of Utah. The class explores the four interconnected spheres of the Earth, the atmosphere, hydrosphere, lithosphere and biosphere. The course examines the theories, research methods and types of data that are fundamental to a responsible appreciation of the geographic and historical variation of Earth's environments. Case studies provide the opportunity for students to investigate 'hot' topics in Earth system science and may include melting ice caps, the overkill hypothesis, ozone depletion, the origins of life, and greenhouse effect.

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### Course Policies

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**Office Hours (virtual):** Tuesdays from 12:30 PM until 4 PM via ZOOM. Alternatively, for any class questions or emergencies, please use CANVAS direct message (preferred) or email (above). ZOOM meeting requests are welcome whenever so long as my schedule permits. Any changes to class lectures, assignments, exams, etc., will be announced via CANVAS.

#### Required Lecture Sections:

- **When?** - Tuesdays & Thursdays, 10:45-12:05 PM
- **Where?** - Marriot Library, Room 1130 (i.e., M LI 113) unless noted otherwise
- **Why?** - In-class attendance and participation are necessary, given student success in class depend on it. Attendance IS taken (use sign-in sheet) with (potential) extra credit awarded at the end of the semester. Those who attend >90% of lectures will qualify. No exceptions.

#### Required Textbook:

**Author:** Robert W. Christopherson.

**Title:** *Geosystems: An Introduction to Physical Geography (9th Edition)* [ISBN: 978-0321958259]

\*\*\**Previous editions are not only acceptable, but highly encouraged*\*\*\* 😊

**Course Etiquette:** Any/all successful learning necessitates mutual respect on the part of the student, their peers, and the instructor. Lecture participants (including your instructor) need not tolerate any rude, disruptive, intimidating, or demeaning student behavior. Your instructor ("Jaydee") holds primary control over the lecture to ensure a respectful learning environment. Those adverse to the above will not be tolerated and therefore asked to remove themselves

from the class. Any students experiencing issues are encouraged to contact the instructor ASAP. Kindness costs nothing. Similarly, the instructor holds the right to modify the syllabus (though it is our course goal not to do this...but life happens 😊).

## Skills & ADA

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**Needed Skills:** Basic internet fluency to access online course resources is essential. Internet access for all class quizzes, fieldwork activities, and midterm + final exam components will be required. While no prerequisite is necessary to enroll in Geography\_1000, basic proficiency in the world's continents, oceans, North American geography (i.e., states), and cartographic skills (i.e., lat/long, Decimal Degrees) is necessary. The first two (2) textbook chapters briefly cover this content, or purchasing an atlas is also advisable.

**Accommodations:** In compliance with the Americans with Disabilities Act of 1990, The University of Utah seeks to provide equal access to its programs, services, and activities for people with disabilities. If any student needs accommodations in the class, reasonable prior notice needs to be given to the Center for Disability Services, 162 Olpin Union Building, 5815020 (V/TDD). CDS will work with students and course instructors to plan accommodations. All written information in this course can be made available in an alternative format with prior notification to the Center for Disability Services; students requiring this service must advise the Center of their needs. More is covered further below.

## Class Structure

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### Textbook Readings:

Our textbook examines a (non-exhaustive) variety of topical material, concepts, or issues considered in lecture. Some subjects or ideas may require additional referencing besides our lecture textbook (which the instructor will post on the course CANVAS page). Google, YouTube, or your instructor are great resources for additional help.

### Lecture:

In-class lectures meet on Tuesdays and Thursdays from 10:45 AM until 12:05 PM at the Marriot Library (Room 1130) from August 23, 2022, until December 16, 2022. Lecture attendance is *essential* to ensure your success. Concepts, geographic context, or examples not necessarily mentioned in the textbook are likely considered during lecture imperative to answer various exam or fieldwork questions. Further, students should strive to complete **ALL** required textbook reading before lecture to ensure participation in in-class discussions (several will occur through the Fall 2022 semester).

### Quizzes:

Five quizzes will need completion throughout the semester via CANVAS. Quizzes provide (the student) assessment to practice methods and concepts introduced in either (a) lecture or (b) textbook readings. All material either (a) covered in lecture or (b) covered in the textbook is fair game (for exam questions). Most quiz questions will provide an example of questions likely encountered on exams.

### **Field Work**

Fieldwork assignments offer the student an opportunity to apply one (or several) essential aspects or concepts covered in lecture to complete an "in-field" activity. Completing all fieldwork activities will cumulate into a final "field report." The field report briefly summarizes all completed work while reflecting (i.e., your perspective) on your findings (due at semester's end). All fieldwork activities engage both (the students) critical thinking and imaginative skills using hands-on activities. These activities will allow the student to experience some of the daily fieldwork geographers (and archaeologists) employ. Thankfully, completion of each does not require travel abroad or seeking out NSF funding, but instead allows you to stay safe at home away from any field-encountered demons, ancient aliens, tornadoes, or unsavory/sketchy desert hermits. More information specific to writing expectations (i.e., APA formatting, length, etc.) is shared later in the semester.

### **Exams**

Four exams (one per section) are administered in-class through the Fall 2022 semester during regular lecture hours (unless otherwise noted). Exams comprise (a) multiple choice, (b) matching, (c) true/false, (d) multiple answers, (e) short answer (<1 paragraph in length), and (f) short essay (>2-3 paragraphs in length; possibly assigned via "take-home"). Standard examination rules are set by the Geography Department and University of Utah Policies with no academic dishonesty tolerated. Make-up exams or quizzes **are not** routine (in this course) and only offered at the instructor's discretion upon evidence of medical or extenuating circumstances. Please contact (your instructor) several weeks before to notify of any conflicts that may occur with exam times.

### **Exam Reviews**

An exam "study guide" is posted (via CANVAS) a week before each exam. Study guides provide a rudimentary outline of specific aspects, concepts, or ideas in which the student should seek fluency before exams. Many concepts covered in-course build upon one another. Therefore, it is vital for the student to discern and identify interconnections or causal factors (i.e., diagrams are your friend!). The instructor will hold an hour-long exam question session (several days before the exam) via ZOOM (rather than a traditional "exam review"). It entails students not only attending but asking questions for clarification. 😊

## Late Assignment Policy/Excused Coursework

Understandably, life happens. If you experience an excruciating circumstance preventing the completion of the above, please contact your instructor before the due date. Failure to contact your instructor may result in points docked for (late) coursework. Student-athletes, EMTs, military personnel, etc., need to provide copies of their schedule (or notify via email/CANVAS) well in advance of anticipated, planned absences in which they are **\*\*officially\*\*** on active service. Student-athletes, EMTs, military personnel, etc., must provide copies of their schedule well in advance of anticipated, planned absences in which they are **\*\*officially\*\*** on active service. Student-athletes should afford the classroom and the instructor the same courtesy they would extend to their coach/employer/commander.

## Extra Credit

Extra credit comes at the instructor's discretion based upon the following (a) class participation and/or (b) quality of existing class work.

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## Grading

Responsibility for classwork submission is placed **squarely** on the student. A committed focus in class will largely reflect the outcome of your final grade. Grades are determined by the following:

4 exams – 100 points (each); 400 points total  
Participation, fieldwork, & Quizzes – 400 points  
Final Fieldwork Report/Reflection – 200 points  

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**Total:** 800 points possible

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## Course Schedule and Assigned Readings List 2021 (Geog\_1000/100)

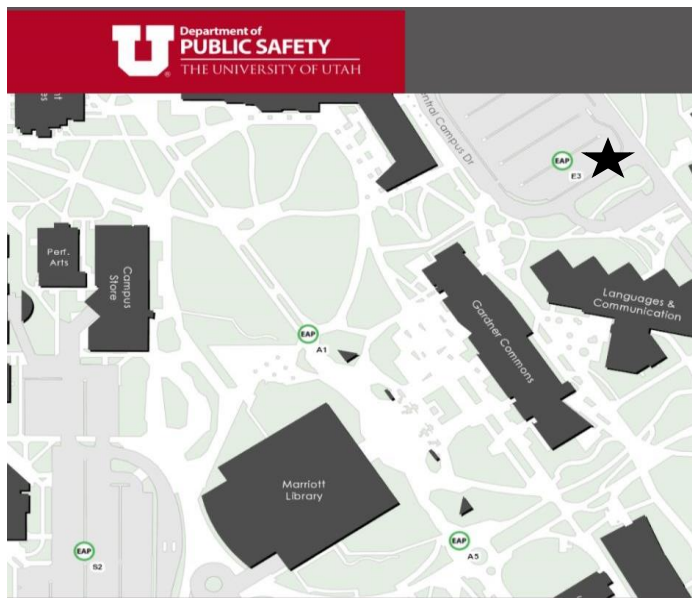
Class	Lecture Topic	Chapter	Lecture Location
8/23	<b>Syllabus &amp; Course Overview</b> <b>Quiz #1:</b> Syllabus & CANVAS Course Layout	Preface	M LI 1130 CANVAS
8/25	<b>Lecture Topic:</b> Essentials of Geography I <b>Fieldwork #1:</b> Field Work Basics	1	M LI 1130 Canvas
8/30	<b>Lecture Topic:</b> Essentials of Geography II	1	M LI 1130
9/1	<b>Lecture Topic:</b> Solar Energy, Earth, and the Seasons	2	M LI 1130
9/6	<b>Lecture Topic:</b> Earth's Modern Atmosphere <b>Quiz #2:</b> Chapters 1-3	3	M LI 1130 CANVAS
9/8	<b>Lecture Topic:</b> Atmospheric Energy & Global Temperatures	4	M LI 1130
9/13	<b>Lecture Topic:</b> Atmospheric & Oceanic Circulation <b>Fieldwork #2:</b> Prehistoric Temperature Maps	5	M LI 1130 CANVAS

9/15	<b>Lecture Topic:</b> Water & Atmospheric Moisture <b>Review:</b> Exam I question session via ZOOM @ 2:00pm	6	M LI 1130 ZOOM
9/20	*** EXAM I (Chapter 1-6) ***	1-6	M LI 1130
9/22	<b>Lecture Topic:</b> Weather <b>Fieldwork #3:</b> Meteorological Observations	7	M LI 1130 CANVAS
9/27	<b>Lecture Topic:</b> Water Resources	8	M LI 1130
9/29	<b>Lecture Topic:</b> Global Climatic Regions <b>Quiz #3:</b> Chapters 7-9	9	M LI 1130 CANVAS
10/4	<b>Lecture Topic:</b> Global Climate Change/the late Holocene <b>Review:</b> Exam question session via ZOOM @ 2:00pm	10	M LI 1130 ZOOM
10/6	<b>Lecture Topic:</b> The Dynamic Planet <b>Fieldwork #3:</b> Meteorology & Climographs	11	M LI 1130
10/11	<b>Fall Break -- No Class – YAY!</b>		
10/13	<b>Fall Break -- No Class – YAY!</b>		
10/18	*** EXAM II (Chapter 7-11) ***	7-11	M LI 1130
10/20	<b>Lecture Topic:</b> Tectonics, Earthquakes, & Volcanism	12	
10/25	<b>Lecture Topic:</b> Weathering, Karst, & Mass Movements <b>Quiz #4:</b> 11-13	13	M LI 1130 CANVAS
10/27	<b>Lecture Topic:</b> Aeolian systems & Arid Landscapes	15	↕
11/1	<b>Lecture Topic:</b> River Systems	14	
11/3	<b>Lecture Topic:</b> Oceans, Coastal Systems, & Wind Processes <b>Review:</b> Exam question session via ZOOM @ 2:00pm	16	M LI 1130 ZOOM
11/8	*** EXAM III (Chapter 12-16) ***	12-16	M LI 1130
11/10	<b>Lecture Topic:</b> Glacial Landscapes & the Cryosphere <b>Fieldwork #4:</b> Prehistoric Little Cottonwood Canyon	17	M LI 1130 CANVAS
11/15	<b>Lecture Topic:</b> The Geography of Soil	18	M LI 1130
11/17	<b>Lecture Topic:</b> Ecosystem Essentials	19	M LI 1130
11/22	<b>Lecture Topic:</b> Terrestrial Biomes <b>Quiz #5</b> 17-20	20	M LI 1130 CANVAS
11/23-11/27	<b>Thanksgiving Break/Conclusion of In-Person Lecture</b>		
12/2	<b>Review:</b> Exam Question session via ZOOM @ 2:00pm	17-20	ZOOM
12/7-12/11	*** EXAM III*** (Chapters 17-20)	17-20	CANVAS
12/10	<b>Submit Final Field Report by 5:00 PM via CANVAS</b>		CANVAS
<b>Note:</b> No cumulative final. Yay!			
The answer to question #10 on the syllabus quiz is: Yellow-bellied marmot			

## UNIVERSITY NOTICES

**Research Ranking of the University:** The University of Utah is the only institution in the state classified in the highest research category (R1). At the University of Utah, students will have access to state-of-the-art research facilities and be able to be part of the knowledge creation process. You will have the opportunity to do your own research with faculty who are leading experts in their field, engaging in programs that match your research interests. Further, you will interact with and often take classes with graduate students that provide an advanced understanding of the knowledge in your field.

**Emergency Preparedness Plan:** Students taking this class must be familiar with the campus Emergency Preparedness Plan. Each building has its own evacuation plan. Should a drill or an actual



emergency require a building evacuation, please assemble at the appointed “EAP” (Emergency Assembly Point) and check in with the Prof or class instructor, who will take attendance. Please follow all instructions given. Do not leave the area until permission is given to do so by your course instructor. The EAP for us is located just above here on the southeast side of Marriott Library (i.e., EAP-A3; black star). \*\* If our EAP area is unsafe, proceed carefully uphill to another location by the Garff Executive Education Building (Business school). Emergency protocols are online here:

<http://emergencymanagement.utah.edu/eap> and the U will post information online via CANVAS.

**Safety & Wellness:** Your safety is our top priority. In an emergency, dial 911 or seek a nearby emergency phone (throughout campus). Report any crimes or suspicious people to 801-585-COPS; this number will get you to a dispatch officer at the University of Utah Department of Public Safety (DPS; [dps.utah.edu](https://dps.utah.edu)). If at any time, you would like to be escorted by a security officer to or from areas on campus, DPS will help — just give a call. The University of Utah seeks to provide a safe and healthy experience for students, employees, and others who make use of campus facilities. In support of this goal, the University has established confidential resources and support services to assist students who may have been affected by harassment, abusive relationships, or sexual misconduct. A detailed listing of University Resources for campus safety can be found at <https://registrar.utah.edu/handbook/campussafety.php>

Your well-being is key to your personal safety. If you are in crisis, call 801-587-3000; help is close. The university has additional excellent resources to promote emotional and physical wellness, including the Counseling Center (<https://counselingcenter.utah.edu>), the Wellness Center (<https://wellness.utah.edu>), and the Women’s Resource Center (<https://womenscenter.utah.edu>).

Counselors and advocates in these centers can help guide you to other resources to address a range of issues, including substance abuse and addiction.

## University of Utah Attendance Policy

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The University expects regular attendance at all class meetings. **You are not automatically dropped from your classes if you do not attend.** You must officially drop your classes by the published deadline to avoid a "W" on your record. You are responsible for satisfying the entire range of academic objectives, requirements and prerequisites as defined by the instructor. If you miss the first 2 class meetings, or if you have not taken the appropriate requisites, you may be required to withdraw from the course. If you are absent from class to participate in officially sanctioned University activities (e.g. band, debate, student government, intercollegiate athletics), religious obligations, or with instructors' approval, you will be permitted to make up both assignments and examinations.

## University of Utah Standards of Academic Conduct

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All students are expected to maintain professional behavior in the classroom setting, according to the Student Code, spelled out in the Student Handbook. Students have specific rights in the classroom as detailed in Article III of the Code. The Code also specifies proscribed conduct (Article XI) that involves cheating on tests, plagiarism, and/or collusion, as well as fraud, theft, etc. Students should read the Code carefully and know they are responsible for the content. According to Faculty Rules and Regulations, it is the faculty responsibility to enforce responsible classroom behaviors, beginning with verbal warnings and progressing to dismissal from and class and a failing grade. Students have the right to appeal such action to the Student Behavior Committee.

## Academic Misconduct Handbook Statement

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- Academic misconduct will not be tolerated. Penalties may include failure of an assignment, the entire course, and/or the filing of formal charges with appropriate university authorities. Academic misconduct includes, but is not limited to, cheating, misrepresenting one's work, and plagiarism:
- Cheating involves the unauthorized possession or use of information in an academic exercise, including unauthorized communication with another person during an exercise such as an examination.
- Misrepresenting one's work includes, but is not limited to, representing material prepared by another as one's own work or submitting the same work in more than one course without prior permission of all instructors.
- Plagiarism means the intentional unacknowledged use or incorporation of any other person's work in one's own work offered for academic consideration or public presentation. **(I reserve the right to submit any piece of written work to Turnitin.com).**

## Class Accommodations

In compliance with the Americans with Disabilities Act of 1990, The University of Utah seeks to provide equal access to its programs, services and activities for people with disabilities. If any student needs

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accommodations in the class, reasonable prior notice needs to be given to the Center for Disability Services, 162 Olpin Union Building, 581-5020 (V/TDD). CDS will work with students and course instructors to make arrangements for accommodations. All written information in this course can be made available in alternative format with prior notification to the Center for Disability Services; students requiring this service must advise the Center of their needs.

**Equal Access Statement:** The University of Utah seeks to provide equal access to its programs, services and activities for people with disabilities. If you will need accommodations in the class, reasonable prior notice needs to be given to the Center for Disability Services, 162 Union Building, 581-5020 (V/TDD). CDS will work with you and instructors to make arrangements for accommodations. All written information in the course can be made available in alternative format with prior notification to CDS.

**Addressing Sexual Misconduct:** Title IX makes it clear that violence and harassment based on sex and gender, which includes sexual orientation and gender identity/expression, is a Civil Rights offense subject to the same kinds of accountability and the same kinds of support applied to offenses against other protected categories such as race, national origin, color, religion, age, status as a person with a disability, veteran's status or genetic information.

If you or someone you know has been harassed or assaulted on the basis of your sex, including sexual orientation or gender identity/expression, you are encouraged to report it to the University's Title IX Coordinator; Director, Office of Equal Opportunity and Affirmative Action, 135 Park Building, 801-581-8365, or to the Office of the Dean of Students, 270 Union Building, 801-5817066. For support and confidential consultation, contact the Center for Student Wellness, 426 SSB, 801-581-7776. To report to police, contact the Department of Public Safety, 801-585-2677(COPS). Additional information regarding reporting and victim supportive resources are available at the offices listed.

**Student Veterans:** The U of Utah has a Veterans Support Center on campus, in Room 161 in the Olpin Union Building. Hours: M-F 8-5pm. Please visit their website for more information about what support they offer, a list of ongoing events and links to outside resources: <http://veteranscenter.utah.edu> Please also let me know if you need any additional support in this class for any reason.

**Attention all students, and in particular those members of the LGBTQ community:** My classroom is a safe zone. Additionally, the U of Utah has a Resource Center on campus in Room 409 in the Olpin Union Building. Hours: M-F 8-5 pm. Visit their website: <http://lgbt.utah.edu>. Please advise if there is additional support you need—I am here to help to the best of my abilities.

**If English is your second language:** There are several resources on campus that will support you with language development and writing: the Department of Linguistics ESL Program <http://linguistics.utah.edu/esl-program/> ; Writing Center (<http://writingcenter.utah.edu/>); the Writing Program (<http://writing-program.utah.edu/>); the English Language Institute (<http://continue.utah.edu/eli/>) Please note that access to translators and dictionaries is not permitted during the exams. Students may not consult notes, texts, papers, calculators, papers, written materials, or each other during exams.



