

# Kutztown University: Spring 2025

## GEOG 10 Planet Earth Users' Guide: Intro. to Physical Geography

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**Office:** Graduate Center 105  
**Office Hrs:** MWF 11 - Noon; TH 3:30 - 4:30  
 and by appointment

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**Web:** <http://faculty.kutztown.edu/courtney> under "Course Announcements." 📧 **Check here daily!**

**Class Meeting Days and Time:** MWF 10 - 10:50      **Room:** Boehm Science Building 262

**Recommended Text:** Strahler and Strahler Physical Geography, 3<sup>rd</sup> ed. (ISBN: 0-471-48053-3).

**Required Text:** College Atlas of the World, 2<sup>nd</sup> ed. (ISBN: 978-0-470-88887-2).

**Evaluation:**

Map Test	10%	Feb. 21 (4 <sup>th</sup> week)
Exam 1	15%	Feb. 28 (5 <sup>th</sup> week)
Exam 2	15%	Mar. 31 (10 <sup>th</sup> week)
Exam 3	15%	Apr. 18 (12 <sup>th</sup> week)
Exercises	15%	6 exercises to be worked on INDEPENDENTLY ( <u>absolutely no copying!</u> ).
Final	30%	Monday, May 12 @ 8:00-10:00 a.m.

**Formats:**

1 Map Test:	75 multiple choice	§ Available in D2L during class time only.
3 Exams:	50 multiple choice and fill-ins	§ Available in D2L during class time only.
1 Final:	100 cumulative questions	§ Available in D2L during final exam time only.

(§I will be in my office monitoring D2L, my email and my phone during all exams)

**Grading Scale:**

Letter Grade	A	B	C	D	F
Pct. Range	90+	75 - 89	60 - 74	50 - 59	< 50

**Basic Course Requirements:**

- Internet access: For all exams, and for all assigned materials in D2L.
- The required atlas: College Atlas of the World 2<sup>nd</sup> edition. Will need through last exercise!
- A calculator
- Commitment to class attendance and participation.

**Policies:**

**Warning:** College and University policies regarding cheating, plagiarism, and academic fraud will be enforced at my discretion. See <http://www.kutztown.edu/thekey> and <http://app.kutztown.edu/policyregister/Policy/ACA-027>.

**Cell phone use is prohibited:** They should be put away during class time.

**No extra credit work** will be assigned other than possible in-class videos and/or pop quiz.

**Attendance Policy:** Please see <http://app.kutztown.edu/policyregister/Policy/ACA-016>.

**Make-up Policy:** Students must arrange to take missed quizzes or exams as soon as possible. Excuses must cover every day missed between the quiz/exam date and the date of the make-up quiz/exam. See the web address immediately above for acceptable excuses.

**Graded Work:** Students must retain all graded and returned work in case of grade recording errors. Students are also expected to complete a copy of the Grading Chart.

**Final Exam Conflict Policy:** For policy details, see: <http://app.kutztown.edu/policyregister/Policy/ACA-080>.

**Gender- Based Crimes:** Educators must report incidents of gender-based crimes, including sexual assault, sexual harassment, stalking, dating violence, and domestic violence. If a student discloses such incidents to me during class or in a course assignment, I am not required to report the disclosure, unless the student was a minor at the time the incident occurred. Regardless of the student's age, if the incident is disclosed to me outside the classroom setting or a course assignment, I am required by law to report the disclosure, including relevant details, such as the names of those involved in the incident, to Public Safety and Police Services and to Mr. Jesus Peña, Title IX Coordinator.

**Students With Disabilities:** Kutztown University is committed to providing reasonable accommodations to individuals with disabilities to ensure equal access to university programs, services, and facilities. If you have already disclosed a disability to the Disability Services Office (DSO) and are approved for academic accommodations, please send me your Electronic Accommodation Letter and speak with me privately during the first week of class so we can make any necessary arrangements. Electronic Accommodation Letters can be sent to me via your [Student Accommodate Portal](#).

If you believe that you are eligible for accommodations, but have not disclosed to the DSO, contact The Disability Services Office (DSO). If you have sustained an injury (temporary or permanent) you may also be eligible to receive accommodations. More information can be found at [www.kutztown.edu/DSO](http://www.kutztown.edu/DSO). You can contact the DSO at (610)-683-4108 or email [DSO@kutztown.edu](mailto:DSO@kutztown.edu).

### **Course Objectives:**

The primary objective of this course is to examine the Earth-Atmosphere-System (EAS) and discuss the mechanisms that drive the earth's weather so that students will be able to correctly explain the factors that create the pattern of climates present today. A secondary objective is to introduce students to Geomorphology, the study of landforms. Toward this end, landforms created by tectonic and volcanic processes, and running water will be discussed. We will complete exercises involving the metric system, coordinates and map scale, isolining, humidity, weather, solar angle, seasons, and time. Students are also expected to read and learn each of the assigned tutorials found in Desire2Learn (D2L). This course satisfies GE C1: Scientific Inquiry.

## **Tentative Course Sequence, Textbook Readings, and <sup>s</sup>D2L Tutorials**

### **0 Introduction (Exam 1)**

D2L First Day Materials

### **I Systems and Energy (Exam 1)**

Reading: Ch. 1; Ch. 2, and Ch. 4 pp. 63-66.

<sup>s</sup>Tutorials: 1, 2, and 3.

Ex. 1: Scientific Notation and the Metric System

### **II Atmospheric Composition and Structure (Exam 1)**

Reading: Ch. 4 pp. 75-76, Ozone Layer pp. 78-79; Ch. 5 pp. 110-112, 122-128; Ch. 7 pp. 169-173; Ch. 3 pp. 38-45, 56-60, and College Atlas pp. 12-13.

Tutorials 4, 5, 6, and 7.

Ex. 2: Maps and Coordinates

### **III Solar Radiation, Energy Balance and Surface Temperature Variation (Exam 2)**

Reading: Ch. 4 pp. 63-75, 77-84; and Ch. 5 pp. 101-110, 112-122

Tutorial 8.

Ex. 3: Isoline Mapping

### **IV Winds, Atmospheric and Oceanic Circulation, and El Niño (Exam 2)**

Reading Ch. 7 pp. 172-199.

Tutorials 9, 10, 11, 12, and 13.

### **V Atmospheric Moisture and Stability (Exam 3)**

Reading: Ch. 6 pp. 135-152.

Tutorials 14, 15, 16, 17, and 18.

Ex. 4: Relative Humidity, Lapse Rates, and Stability

### **VI Air Masses, Fronts, and Storms (Exam 3)**

Reading: Ch. 8 pp. 205-224; and Ch. 6 pp. 146-155.

Tutorials 19, 20, and 21.

Ex. 5: Station Model

### **VII Climate (Exam 3) You will need to do this on your own as it will not be covered in class!!**

Tutorial 22.

### **VIII Seasons, Solar Angle, and Time (Final)**

Reading Ch. 3 pp. 49-53, and 46-49.

Tutorials 23, 24, 25, 26, and 27.

Ex. 6: Solar Angle, and Time

### **IX Earth's Structure and Plate Tectonics (Final)**

Reading: Chapters 13 and 14.

Tutorials 28 and 29.

### **X Fluvial Geomorphology (Final)–Tentative!**

Reading: Ch. 6 pp. 136-138; and Chapters 16 and 17.

SEQUENCE AND TIMING MAY CHANGE SO BE AWARE OF ANNOUNCED CHANGES.

Check for date changes at: <http://faculty.kutztown.edu/courtney> Look for "Course Announcements"

Kutztown University  
**Spring 2025 Calendar for**  
**GEOG 10 Planet Earth Users' Guide: Intro. to Physical Geography**

Sun	Mon	Tue	Wed	Thu	Fri
1 <sup>st</sup> wk. <b>Jan. 26</b>	27 Intro., D2L Def. of Geography	28	29 Systems	30	31 System Balance
2 <sup>nd</sup> wk. <b>Feb. 2</b>	3 Metric System	4	5 Temperature, and Energy Units	6	7 EM Spectrum
3 <sup>rd</sup> wk. 9	10 EM Transfer & Atmos. Comp.	11	12 Atmospheric Structure	13	14 Magnetosphere
4 <sup>th</sup> wk. 16	17 Earth's Shape & Coordinates	18	19 Working With Coordinates	20	21 <b>Map Test in D2L</b>
5 <sup>th</sup> wk. 23	24 The Globe & Map Projections	25	26 Map Scale	27	28 <b>Exam 1 in D2L</b>
6 <sup>th</sup> wk. <b>Mar. 2</b>	3 Energy Distribution	4	5 Global Energy Budget	6	7 Surface Temp Variation
7 <sup>th</sup> wk. 9	10 Isoline Maps	11	12 Wind Forces	13	14 Winds by Scale
<b>SPRING BREAK</b> (no classes March 17 through 21)					
9 <sup>th</sup> wk. 23	24 Global Atmos. Circulation	25	26 Ocean Currents	27	28 El Niño
10 <sup>th</sup> wk. 30	31 <b>Exam 2 in D2L</b>	<b>Apr. 1</b>	2 Atmospheric Moisture	3	4 Adiabatic Lapse Rates
11 <sup>th</sup> wk. 6	7 Atmospheric Stability	8	9 Uplift Mechanisms	10	11 Air Masses and Fronts
12 <sup>th</sup> wk. 13	14 Storms	15	16 Weather Station Model	17	18 <b>Exam 3 in D2L</b>
13 <sup>th</sup> wk. 20	21 Seasons	22	23 Solar Angle	24	25 Local Solar Time
14 <sup>th</sup> wk. 27	28 Standard Time	29	30 DST and IDL	<b>May 1</b>	2 Earth's Structure & Tectonics
15 <sup>th</sup> wk. 4	5 Volcanoes	6	7 Fluvial Geomorphology	8	9 Fluvial Geomorphology
<b>Finals Week</b>	12 <b>Final 8 to 10 a.m. in D2L</b>	13	14	15	16

**You must take your final exam with your regular section.**

**Sequence and timing may change, so be aware of announced alterations!**

**Check my home page (<http://faculty.kutztown.edu/courtney>) and click the link to Course Announcements for updates on any course changes.**

# Planet Earth Users' Guide Grading Chart

Exercise Scores and Points			Map Test Score & Points			Exam Scores and Points			Final Exam Score & Points			
	Score	Out of	Pts. <sup>§</sup>	Score	Out of	Pts. <sup>¶</sup>	Score	Out of	Pts. <sup>†</sup>	Score	Out of	Pts. <sup>‡</sup>
Ex. 1					75							
Ex. 2												
Ex. 3												
Ex. 4												
Ex. 5												
Ex. 6												
	<b>Sum of Ex. Pts.</b>			<b>Map Test Pts.</b>			<b>Sum of Exam Pts.</b>			<b>Final Exam Pts.</b>		
	<sup>§</sup> For Ex. Pts., (Score ÷ Out of) X 2.5			<sup>¶</sup> For Map Test Pts., (Score ÷ 75) X 10			<sup>†</sup> For Exam Pts., (Score ÷ Out of) X 15			<sup>‡</sup> For Final Exam Pts., (Score ÷ Out of) X 30		
<b>Course Points Structure: 15 Ex. Pts. + 10 Map Test Pts. + 45 Exam Pts. + 30 Final Exam Pts. = 100 points</b>												

<b>Pts. Total = Course %</b>

Record all of your scores on this form and retain all your work in case of any discrepancies.