

Kutztown University: Spring 2024

Geg 010 Planet Earth Users' Guide: Intro. to Physical Geography

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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, 3rd ed. (ISBN: 0-471-48053-3).

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

Evaluation:

Map Test	10%	Feb. 16 (4 th week)
Exam 1	15%	Feb. 23 (5 th week)
Exam 2	15%	Mar. 25 (9 th week)
Exam 3	15%	Apr. 12 (11 th week)
Exercises	15%	6 exercises to be worked on INDEPENDENTLY (<u>absolutely no copying!</u>).
Final	30%	Wednesday, May 8 @ 11:00-1:00.

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 2nd 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: Have them 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: See the following URL for policy details:
<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.

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 ^sD2L 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.

^sTutorials: 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 2024 Calendar for
GEG 010 Planet Earth Users' Guide: Intro. to Physical Geography

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

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. [§]	Score	Out of	Pts. [¶]	Score	Out of	Pts. [†]	Score	Out of	Pts. [‡]
Ex. 1					75							
Ex. 2												
Ex. 3												
Ex. 4												
Ex. 5												
Ex. 6												
Ex Pts.	Sum of Ex. Pts.			Map Test Pts.			Sum of Exam Pts.			Final Exam Pts.		
	[§] For Ex. Pts., (Score ÷ Out of) X 2.5			[¶] For Map Test Pts., (Score ÷ 75) X 10			[†] For Exam Pts., (Score ÷ Out of) X 15			[‡] For Final Exam Pts., (Score ÷ Out of) X 30		
Course Points Structure: 15 Ex. Pts. + 10 Map Test Pts. + 45 Exam Pts. + 30 Final Exam Pts. = 100 points												

Pts. Total = Course %

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