Kutztown University: Spring 2019
Geg 010 Elements of Physical Geography

Dr. Richard Courtney  
Office: Graduate Center 105  
Dept. #: 610 683-4364 (34364)  
KU Snow Line: 610 683-4649  
Office Hrs: MWF 11-12, TH 3:30 - 4:30, and by appointment  
e-mail: courtney@kutztown.edu  
http://faculty.kutztown.edu/courtney under "Course Announcements." Check here daily!

Class Meeting Days and Time:  
Section 010 MWF 10:00 - 10:50 a.m. Room: Boehm 262


Evaluation:  
Map Test 10% Feb. 15 (4th week)  
Exam 1 15% Feb. 22 (5th week)  
Exam 2 15% Mar. 22 (8th week)  
Exam 3 15% Apr. 12 (11th week)  
Exercises 15% 6 exercises to be worked on INDEPENDENTLY (absolutely no copying!).  
Final 30% M 5/6 8:00 a.m. (Final exam conflicts must be resolved by 10th week).

Formats:  
1 Map Test: 75 multiple choice  
3 Exams: 50 multiple choice and fill-ins  
1 Final: 100 cumulative questions  
(Only a signed doctor’s note is an acceptable excuse for missing the final exam as per College regulations)

Grading Scale:

<table>
<thead>
<tr>
<th>Letter Grade</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>F</th>
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</thead>
<tbody>
<tr>
<td>Pct. Range</td>
<td>90+</td>
<td>75 - 89</td>
<td>60 - 74</td>
<td>50 - 59</td>
<td>&lt; 50</td>
</tr>
</tbody>
</table>

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://www.kutztown.edu/about-ku/administrative-offices/student-conduct/policies-and-procedures/academic-honesty/academic-honesty-faq.htm.

Cell phone use is prohibited: They may not be used as calculators either.

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


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.


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, running water, and glacial ice 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 read and learn each of the assigned tutorials found in Desire2Learn (D2L).

TENTATIVE COURSE SEQUENCE AND READINGS

I Introduction, Systems and Energy (Exam 1)
Reading: Ch. 1; Ch. 2, and Ch. 4 pp. 63-66
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, and College Atlas pp. 12-13
Tutorials 4, 5, 6, and 7
Ex. 2: Maps and Coordinates

III Solar Radiation, Energy Balance and Surface Temp. (Exam 2)
Reading: Ch. 4 pp. 63-75, 77-84; and Ch. 5 pp. 101-110, 112-122
Tutorial 8
Ex. 3: Contour Mapping (Isolining)

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!!
Reading: Chapters 9, 10, and 11
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 Surface and Plate Tectonics (Final)
Reading: Chapters 13 and 14
Tutorials 28 and 29

X Fluvial Geomorphology (Final)
Reading: Ch. 6 pp. 136-138; and Chapters 16 and 17

XI Glacial Geomorphology (Final)
Reading: Ch. 20

SEQUENCE AND TIMING MAY CHANGE SO BE AWARE OF ANNOUNCED CHANGES.
You may also check for date changes on my web page at:
http://faculty.kutztown.edu/courtney Look for “Course Announcements”

Tutorials are found in Desire2Learn
Kutztown University  
**Spring 2019 Calendar for**  
Physical Geography Section 010 MWF 10:00 a.m.

<table>
<thead>
<tr>
<th>Sun</th>
<th>Mon</th>
<th>Tue</th>
<th>Wed</th>
<th>Thu</th>
<th>Fri</th>
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<tbody>
<tr>
<td>1st wk. Jan. 20</td>
<td>21 MLK Day, No classes</td>
<td>22</td>
<td>23 Intro., D2L &amp; Definition of Geography</td>
<td>24</td>
<td>25 Systems</td>
</tr>
<tr>
<td>3rd wk. 3</td>
<td>4 Forms of Energy</td>
<td>5</td>
<td>6 EM Spectrum &amp; EM Transfer</td>
<td>7</td>
<td>8 Atmospheric Composition</td>
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<tr>
<td>4th wk. 10</td>
<td>11 Atmospheric Structure</td>
<td>12</td>
<td>13 Earth’s Shape &amp; Coordinates</td>
<td>14</td>
<td>15 Map Test</td>
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<tr>
<td>5th wk. 17</td>
<td>18 The Globe and Map Projections</td>
<td>19</td>
<td>20 Map Scale</td>
<td>21</td>
<td>22 Exam 1</td>
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<tr>
<td>7th wk. 3</td>
<td>4 Isoline Mapping</td>
<td>5</td>
<td>6 Winds</td>
<td>7</td>
<td>8 Global Atmospheric Circulation</td>
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<td><strong>SPRING BREAK</strong></td>
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<tr>
<td>8th wk. 17</td>
<td>18 Ocean Currents</td>
<td>19</td>
<td>20 El Nino</td>
<td>21</td>
<td>22 Exam 2</td>
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<tr>
<td>9th wk. 24</td>
<td>25 Atmospheric Moisture</td>
<td>26</td>
<td>27 Adiabatic Lapse Rates</td>
<td>28</td>
<td>29 Atmospheric Stability</td>
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<tr>
<td>10th wk. 31</td>
<td><strong>Apr. 1</strong> Orographic Precipitation</td>
<td>2</td>
<td>3 Air Masses and Fronts</td>
<td>4</td>
<td>5 Storms</td>
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<tr>
<td>11th wk. 7</td>
<td>8 Storms</td>
<td>9</td>
<td>10 Station Model</td>
<td>11</td>
<td>12 Exam 3</td>
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<tr>
<td>12th wk. 14</td>
<td>15 Seasons</td>
<td>16</td>
<td>17 Solar Angle</td>
<td>18</td>
<td>19 Local Solar Time</td>
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<tr>
<td>13th wk. 21</td>
<td>22 Standard Time, DST, and IDL</td>
<td>23</td>
<td>24 Earth’s Structure &amp; Plate Tectonics</td>
<td>25</td>
<td>26 Volcanoes</td>
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<td>14th wk. 28</td>
<td>29 Fluvial Geomorphology</td>
<td>30</td>
<td>May 1 Fluvial\Glacial Geomorphology</td>
<td>2</td>
<td>3 Glacial Geomorphology</td>
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<td><strong>Finals Week</strong></td>
<td>6 Final 8:00 a.m.</td>
<td>7</td>
<td>8</td>
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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](http://faculty.kutztown.edu/courtney)) and click the link to Course Announcements for updates on any course changes.
## Physical Geography Grading Chart

<table>
<thead>
<tr>
<th>Exercise Scores and Points</th>
<th>Map Test Score &amp; Points</th>
<th>Exam Scores and Points</th>
<th>Final Exam Score &amp; Points</th>
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<tbody>
<tr>
<td>Score</td>
<td>Out of</td>
<td>Pts. §</td>
<td>Score</td>
</tr>
<tr>
<td>Ex. 1</td>
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<td>Ex. 6</td>
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§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. v. Fa18