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GPHY 111N.01: Introduction to Physical Geography

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INTRODUCTION TO PHYSICAL GEOGRAPHY (GPHY 111N)

- Spring 2014 -

Class Meets: MWF 12:10–1:00 pm; Stone Hall 304

Professor Ulrich Kamp, Ph.D.

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<http://www.cas.umt.edu/geography/faculty/kamp/kamp.html>

Office Hours: M 3 - 4 pm, W 2 - 3 pm; and by appointment via email

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Teaching Assistant

Department of Geography

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Office Hours: R 10 am -12 pm, F 1 - 3 pm; and by appointment via email

Course Description

This course provides an introduction to physical geography: the study of the Earth's natural environments. The course starts with the principles and mechanisms of climate and weather, and then surveys landforms and earth surface processes. The final section of the class examines vegetation and ecosystems on global and regional scales. Throughout the course we use specific regional examples to illustrate and understand global processes. We give special attention to global environmental problems such as "greenhouse" warming and climatic change, the stratospheric ozone layer, the El Niño/La Niña oceanic-atmospheric circulation pattern, tropical storms and other extreme weather events, and the nature and distribution of volcanoes and earthquakes. The course is designed to be both challenging and interesting. It provides essential background for further study in meteorology, climatology, hydrology, ecology, biogeography, geology and physical geography.

Course Policies

Class Attendance and On-time Appearance

Attendance during the lectures is essential to your general success in class. Excessive lateness disturbs everyone else – please appear on time. You should have your breakfast before class.

Readings

The following reading is required:

Foresman, T. & A. Strahler (2012): *Visualizing Physical Geography*. – Wiley, Chichester, 624 pages.

Additional Course Material

If necessary, additional course material will be made available online through Moodle after the lectures in class. Download and use these resources for your studies in preparation for assignments and exams.

Discussion Sessions

The teaching assistant is available during the office hours for discussions dedicated to problem solving, clarification of challenging concepts, and work on the problem sets.

Assignments

Together with a partner you will work on six assignments. Assignments have to be handed in before the lecturing starts on the due date. No late work will be accepted. There is no extra credit.

Examinations

All three exams will take place in the classroom. They are subjective, not comprehensive; this means that the exam will encompass only the material that is covered in lectures and discussions between exams. In general, each examination will be a combination of multiple choice. The rules for the examinations are as follows:

1. You will take each exam as scheduled. Make-up exams are not allowed—except as listed in the Make-up exam policy below.
2. Material for the exam will be from the required textbook and other readings and all other distributed material. Attendance for each lecture is recommended in order that you take notes for each exam.
3. Make-up Exam Policy:
 - All Students must take the final exam as scheduled. Conflicts must be settled with the Dean. This is University Policy and there are no exceptions.
 - All Students must take each exam as scheduled. If an exam is missed, the student will receive a zero (0) on the exam.
 - These are the only exceptions that will warrant a make-up exam: university events—such as sporting or music events; military obligations; religious holidays; serious family emergency; medical emergencies or serious illness; court-imposed legal obligations such as subpoenas or jury duty; serious weather conditions; special curricular requirements such as judging trips or field trips.
 - Any student requiring an exception under this policy must do **so prior** to the scheduled exam—unless in the case of an actual emergency (sudden hospitalization). A student must provide official documentation of the reason for absence **in advance**.
 - If a make-up exam is approved. It must be completed within one week of the original exam and scheduled with the Teaching Assistant.

Accommodations

Students with disabilities who need assistance should contact the instructor immediately so that necessary forms and procedures can be completed. Please review the university's website if there are any questions: <http://www.umt.edu/dss/default.htm>.

Academic Integrity

“All students must practice academic honesty. Academic misconduct is subject to an academic penalty by the course instructor and/or a disciplinary sanction by the University. All students need to be familiar with the Student Conduct Code. The Code is available for review online at: http://life.umt.edu/vpsa/student_conduct.php.”

Work Evaluation and Final Grading

6 Assignments (10% each)	60 %
Three Exams (10% each)	30 %
Attendance	10 %

Grading Scheme

97-100	A+	87-89	B+	77-79	C+	67-69	D+	<60	F
93-96	A	83-86	B	73-76	C	63-66	D		
90-92	A-	80-82	B-	70-72	C-	60-62	D-		

Missed Classes

0-3	A
4	B
5	C
6	D
>6	Expulsion from Class

Late assignments will be penalized. An assignment that is turned in one day late will have 10% of the available points deducted from the score. An assignment that is turned in two days late will have 20% of the available points deducted from the score. No credit will be awarded for assignments that are more than two days late. "Day" denotes a business day (Monday through Friday) not the time interval between class meetings. For example, an assignment that is due on Thursday but turned in on Monday will be counted two days late.

Tentative Schedule

Date	Topic	Readings	Remarks
WEEK 1 27-Jan 29-Jan 31-Jan	Introduction 01 - Science; Systems 02 - Shape of Earth; Global Time	--- --- Chapter 1	
WEEK 2 03-Feb 05-Feb 07-Feb	03 - Map Projections 04 - Earth and Sun; Seasons 05 - Composition and Structure of the Atmosphere	Chapter 1 Chapter 1 Chapters 2+3	
WEEK 3 10-Feb 12-Feb 14-Feb	06 - Radiation and Temperature 07 - Energy Balances 08 - Global Temperature Patterns	Chapters 2+3 Chapter 2 Chapter 3	Assignment 1 due
WEEK 4 17-Feb 19-Feb 21-Feb	Holiday: President's Day 09 - Humidity, Clouds, Precipitation 10 - Winds; Forces within the Atmosphere	--- Chapter 4 Chapter 5	NO CLASS
WEEK 5 24-Feb 26-Feb 28-Feb	11 - Atmospheric Circulation 12 - Oceanic Circulation 13 - Weather Systems	Chapter 5 Chapter 5 Chapter 6	Assignment 2 due
WEEK 6 03-Mar 05-Mar 07-Mar	Exam 1 14 - Violent Weather 15 - Global Climates	--- Chapter 6 Chapter 7	
WEEK 7 10-Mar 12-Mar 14-Mar	16 - Past Climates 17 - Global Climate Change 18 - The Geologic Cycle	Chapter 14 Chapter 3 Chapter 8	Assignment 3 due
WEEK 8 17-Mar 19-Mar 21-Mar	19 - Plate Tectonics 20 - Plate Boundaries 22 - Earthquakes	Chapter 8 Chapter 8 Chapter 9	
WEEK 9 24-Mar 26-Mar 28-Mar	23a - Plutonism 23b - Volcanism 24 - Weathering	Chapter 9 Chapter 9 Chapter 10	Assignment 4 due
WEEK 10 31-Mar 02-Apr 04-Apr	Spring Vacation Spring Vacation Spring Vacation	--- --- ---	NO CLASS NO CLASS NO CLASS
WEEK 11 07-Apr 09-Apr 11-Apr	25 - Karst 26 - Mass Wasting Exam 2	Chapter 11 Chapter 10 ---	
WEEK 12 14-Apr 16-Apr 18-Apr	27 - Hydrological Cycle 28 - Water Supply 29a - Fluvial Processes	Chapter 11 Chapter 11 Chapter 12	Assignment 5 due
WEEK 13 21-Apr 23-Apr 25-Apr	29b - Fluvial Landforms 30 - Coastal Processes and Landforms 31 - Eolian Processes and Landforms	Chapter 12 Chapter 13 Chapter 13	
WEEK 14 28-Apr 30-Apr 02-May	32 - Periglacial Processes and Landforms 33 - Glacial Processes and Landforms 34 - Soils	Chapter 10 Chapter 14 Chapter 15	
WEEK 15 05-May 07-May 09-May	35 - Ecosystems 36 - Biodiversity and Species Loss 37 - Global Biogeography	Chapter 16 Chapter 16 Chapter 17	Assignment 6 due
WEEK 16 16-May	Exam 3, 10:10 am -12:00 pm	---	