URBAN STUDIES 289: INTRODUCTION TO PHYSICAL GEOGRAPHY

1:30–2:35 MWF, BU 206

SPRING 2002 SCHEDULE

Instructor: J. Hannibal, Cleveland Museum of Natural History
e-mail: hannibal@cmnh.org Telephone: 216.231.4600 ext. 233

You may e-mail me anytime, or you may call during regular Museum hours Monday through Saturday.

Office hours: I will be available immediately after each class at CSU. Please simply come up to me after class if you have any questions or things to discuss. I will stay as long as needed.
I am also available by appointment at the Natural History Museum Monday–Saturday. Please make an appointment by e-mail and wait for a verification before visiting.

Textbook: A Strahler and A. Strahler. 2000. Introducing Physical Geography. Second edition. New York, John Wiley & Sons. 575 p. [We will cover all of this text. Please read the assigned chapters of the textbook before coming to class. Also, please read the Science News pieces at the end of the book as they are cited in the book.]

Additional readings will be recommended. One such publication is:

Goddard, D. 1998. Dick Goddard's Weather Guide & Almanac for Northeast Ohio. Cleveland: Gray & Co. [This will be useful for the class but you can read relevant parts in the CSU library. I have put a copy on two-hour reserve at the CSU library]

There will also be occasional handouts.

I expect that each student will diligently attend class. To do well you will need to take notes in class and while we are on our field trips, read and study the material in the book as well as handouts and recommended readings, and complete assignments.

Class grading:
Assignments: 25%
First exam: 25%
Second exam: 25%
Final exam: 25%

Exams are closed book, closed notes. They are based on the text, other readings, and anything covered in class. Exam format will include essays as well as short answers, multiple choice, etc. In preparing for exams, and for studying all along, it would be helpful to know the key terms and answer the review questions at the back of the chapters.

There will be three assignments, each of which will require outside library work. Two will require short presentations that will also be graded.

Assignment percentages:
weather maps (5%)
earthquakes (10%)
stone weathering in cemeteries (10%)

Except for data collection at the cemetery which may be done in teams, assignments must be done on an individual basis. They must be typed, double spaced, using 12 point Times New Roman (the font used here) or a similar font. Each paper will be 5 pages long, with one page of illustrations and/or graphs. If you have more illustrations than fit on one page your paper can be longer than 5 pages.

Grading scale (approximate): A = 90–100; B = 80–89; C = 70–79; D = 60–69; F = below 60

URBAN STUDIES 289: INTRODUCTION TO PHYSICAL GEOGRAPHY

SPRING 2002 SCHEDULE (coverage of topics may vary somewhat depending on what actually gets covered from day-to-day)

Date	**Topic**	**Reading**
Mon., 14 Jan.	Introduction, course overview Weather project assigned	Prologue
Wed., 16 Jan.	Earth rotation and the geographic grid	Chapter 1
Fri., 18 Jan.	Global time and Earth's rotation around the Sun	
Mon., 21 Jan.	Martin Luther King Day–no class	
Wed., 23 Jan.	Maps, GIS	Appendices 1&2
Fri., 25 Jan	Earth's global energy balance	Chapter 2
Mon., 28 Jan	Temperature; **turn in outline of weather project**	Chapter 3
Wed., 30 Jan	Temperature, continued, and global warming	
Fri., 1 Feb.	Hydrologic cycle, clouds, etc	Chapter 4

Mon., 4 Feb.	Precipitation and air pollution	
Wed., 6 Feb	Winds and global circulation	Chapter 5
Fri., 8 Feb.	Air masses and tornadoes	Chapter 6
Mon., 11 Feb.	Tropical weather systems and tornadoes	
Wed., 13 Feb.	**Exam**	
Fri., 15 Feb	Global climates **Weather projects due**; earthquake project assigned	Chapter 7
Mon., 18 Feb	Presidents' Day–no class	
Wed., 20 Feb.	Ecosystems and organisms	Chapter 8
Fri., 22 Feb.	Biomes	
Mon., 25 Feb.	The nature of soils **Turn in outline of earthquake project with citations**	Chapter 9
Wed., 27 Feb.	Soil development	
Fri., 1 March	Earth's crust, igneous rocks	Chapter 10
Mon., 4 Mar.	Sedimentary & metamorphic rocks, geologic time	
Wed., 6 Mar.	**Campus field trip**–meet at classroom promptly at 1:30; we will walk from there to other campus locations	
Fri., 8 Mar.	Lithosphere and plate tectonics	Chapter 11
Mon., 11 Mar.–Fri., 15 Mar	**Spring recess**	
Mon. 18 Mar.	Volcanic and tectonic landforms	Chapter 12
Wed., 20 Mar.	Earthquakes	OhioSeis website

Fri., 22 Mar.	**Exam**	
Mon., 25 Mar.	**Earthquake project due, Student presentations**	
Wed., 27 Mar.	Class will meet at Erie Street Cemetery. Please meet in the center of the cemetery at 1:40 **Note:** this trip is somewhat weather dependent; if it looks real bad we will switch days. So be sure to be in class the two class meetings before. Also **be sure** to read Chapter 13 before the field trip.	Chapter 13
Fri., 29 Mar.	Physical and chemical weathering	
Wed., 1 April–Fri. 5 April: **No class meeting, please use time to do projects**		
Mon., 8 Apr.	Mass wasting **Turn in outline of cemetery project with citations**	
Wed., 10 Apr.	Ground water	Chapter 14
Fri., 12 Apr.	Surface water	
Mon., 15 Apr.	Landforms made by running water	Chapter 15
Wed., 17 Apr.	Landforms continued	
Fri., 19 Apr.	**Cemetery project due; student presentations**	
Mon., 22 Apr.	Landforms and rock structure	Chapter 16
Wed., 24 Apr.	Landforms and rock structure	
Fri., 26 Apr.	Landforms made by waves	Chapter 17
Mon., 29 Apr.	Landforms made by wind	

Wed., 1 May	Glaciers	Chapter 18
Fri., 3 May	Global warming	
Wed., 8 May	1:00–3:00 pm **Final exam**	