

Introduction to Physical Geography (Lab)

GARP 0102 Monday/Wednesday/Friday: 10:25 am – 12:05 pm, Bates 05

Course goals: The Physical Geography lab expands your knowledge and understanding of Physical Geography. We will discover and experience the dynamics of Earth as a system by applying our knowledge to the natural world around us. Some activities reach out into new directions and explore topics not covered elsewhere in the course.

- There are no labs during Weeks 1, 8, and 16.
- Each week, 1-2 lab projects are assigned during the lab session.
- All lab projects should be completed during the respective lab session unless stated otherwise.
- Working with your lab partner/group is encouraged. However, you are each responsible for your own work.
- Attendance is mandatory. Absence from a lab leaves a large gap in your learning process.
- One At-Home Lab is scheduled during the semester (Lab# 12). We will not meet for lab that week. Instead, you will work on the lab project on your own schedule.
- Adjustments to the schedule and lab projects may be required to account for unforeseeable or unavoidable situations during the semesters.

Professor:

Dr. Kinuyo Kanamaru
E-mail: kinuyok1 'at' gmail.com
Office Hours: by arrangement

Required text:

Laboratory Manual for McKnight's Physical Geography: A Landscape Appreciation, 11th Edition, by Hess & Tasa

Evaluation and Grading Policy:

12 Lab Projects	80%
Fieldtrip Report	10%
Attendance	10%

Lab Projects (total 80 % of your final grade)

Each week, your lab project is graded and cumulates towards your final lab grade. Your lab grade contributes 25% to your final course grade (see lecture syllabus for more grading details). The lowest score amongst 12 separate lab projects will be dropped from the final grade.

Fieldtrip Report (10 % of your final grade)

By May 7 Wednesday, you will submit a fieldtrip report associated with a field excursion planned on April 30 Wednesday. The details of this report will be provided during the semester. Late submission will *only* be accepted with documentation stating your

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incapability of submitting the assignment on time.

Attendance (10 % of your final grade)

Attendance is mandatory and there will be no make-up labs. In case of emergency or last minute absences due to illness, family emergency, etc., you will need to contact me via email. A brief message stating the reason for a sudden absence is the minimal requirement.

Academic Honesty and Disabilities:

See lecture syllabus for details.

Course schedule:

Week	Lab #	Dates	Themes
Week 1		1/22	<i>No Lab</i>
Week 2	Lab #1	1/27, 1/29, 1/31	Library Research Lab
Week 3	Lab #2	2/3, 2/5, 2/7	Topographic Maps: Location, Scale, and Generalization
Week 4	Lab #3	2/10, 2/12, 2/14	The Earth in Space: The distribution of Insolation
Week 5	Lab #4	2/18 (Tu=Mo), 2/19, 2/21	Earth's Radiation Balance: Variations in Time and Space
Week 6	Lab #5	2/24, 2/26, 2/28	Hurricane Katrina and Sandy: Air Pressure and Wind Speed
Week 7	Lab #6	3/3, 3/5, 3/7	Moisture, Condensation, Clouds: Why does it rain?
Week 8		3/10, 3/12, 3/14	<i>No Lab (Spring Break)</i>
Week 9	Lab #7	3/17, 3/19, 3/21	Weather Forecasting: Hurricane Watch!
Week 10	Lab #8	3/24, 3/26, 3/28	Climate Change: Past, Present, and Future
Week 11	Lab #9	3/31, 4/2, 4/4	Plate Tectonics: History of the Scientific Revolution
Week 12	Lab #10	4/7, 4/9, 4/11	Earthquakes and Volcanoes
Week 13	Lab #11	4/14, 4/16, 4/18	Fluvial Processes: History of the Mississippi River
Week 14	Lab #12	4/23, 4/25	<u>At-Home Lab</u> : Global Warming – The Signs and the Science
Week 15	Lab #13	4/30	All-Day Field Trip
Week 16		5/5, 5/7 (<u>Field Trip Report due</u>)	<i>No Lab</i>