

Introduction to Physical Geography – Lab

GARP 0102, Sections 01A/01B/01C

The Physical Geography Lab builds on your knowledge of physical geography developed through class lectures, the study of your textbook, and the series of homework assignments. Here you can put your knowledge to use in solving problems that are based on topics addressed in the lecture. Some of the exercises also reach out into new directions and explore topics not covered in the lecture or textbook. We will also spend time, as needed, to review material, answer questions, and discuss geography-related news items.

Lab Manual

Darrel Hess, Laboratory Manual – 8th Edition Physical Geography – A Landscape Appreciation Pearson Prentice-Hall (ISBN 0-13-145213-4, 308 pages, maps & stereoscope), \$56.25, cheaper used, but be aware!, WWW site: http://wps.prenhall.com/esm_mcknight_physgeo_8

The exercises in this lab manual give you an opportunity to apply many of the concepts discussed in the lecture. Each exercise begins with a brief introductory section that reviews key concepts and provides important background information. The lab manual is a derivative of the textbook – at the beginning of each lab exercise you will find the appropriate textbook reference for that topic (e.g. Exercise 8 “Solar Angle” is covered by pp. 17-22 and p. 26 in the textbook).

➔ You are required to have your own copy of the lab manual and to read the associated text material and the lab exercises prior to lab.

The Fine Print

- All lab exercises must be completed during the respective lab session.
- Attendance is mandatory as we meet only once every week. Therefore, missing class (for any reason) leaves you with a considerable gap in your learning process.
- No make-up labs (see grading).
- If you felt that you are not progressing as well as you hoped, please feel free to talk to me. The sooner the better! Please do not wait until the end of the semester.

Grading

Each lab (n = 12) is graded on a 10 point scale (at 0.5 point increments). The two lowest grades are dropped – the mean of the remaining 10 grades will be your lab grade and contribute 30 percent to your final course grade.

At-Home Labs

Lab #5 (Week 6) and Lab #9 (Week 10) are designated as “at-home labs”. We will not meet formally during these two weeks. Instead, you can complete the assigned at your discretion. I encourage you to collaborate with fellow students on these “at-home labs” – however, you are required to submit (and you are responsible for) your own work. The “at-home labs” are due at the beginning of the following formal lab session.

Lab Schedule

Week	Lab	Dates	Theme(s)	Assignment
Week 1	No Lab	9/6, 9/8	First Week of Semester	
Week 2	Lab #1	9/11, 9/13, 9/15	Metric Conversions Mapping the Earth Earth-Sun Relations	Ex.1 Ex.4-I, Ex.6 Ex.7
Week 3	Lab #2	9/18, 9/20, 9/21	Insolation Temperature Patterns	Ex.9-I Ex.10
Week 4	Lab #3	9/25, 9/27, 9/29	Pressure Wind	Ex.11 Ex.12
Week 5	Lab #4	10/2, 10/4, 10/6	Humidity	Ex.13-I/II
Week 6	Lab #5	At-Home Lab	Contour Lines Topographic Maps	Ex.22 Ex.23
Week 7	Lab #6	10/16, 10/18, 10/20	Adiabatic Processes Stability	Ex.14-I/II Ex.15-I
Week 8	Lab #7	10/23, 10/25, 10/27	Mid-latitude Cyclones	Ex.16-I/II
Week 9	Lab #8	10/30, 11/1, 11/3	Weather Satellite Images Hurricanes	Ex.18-I/V Ex.19, Part I
Week 10	Lab #9	At-Home Lab	Weather Satellite Images Hurricanes	Ex.18-II Ex.19-II
Week 11	Lab #10	11/13, 11/15, 11/17	Plate Tectonics The San Andreas Fault	Ex.27-I Ex.31-II
Week 12	No Lab	11/20, 11/22	Thanksgiving Week	
Week 13	Lab #11	11/27, 11/29, 12/1	Flood Recurrence Intervals Coastal Landforms	Ex.36 Ex.42-I/II
Week 14	Lab #12	12/4, 12/6, 12/8	Continental Glaciation Alpine Glaciation	Ex.40-I/III Ex.41-I/IV

What To Bring

- Ruler
- Pencil and colored pencils
- Calculator
- Optional: inexpensive magnifying glass