

## GEOG 1503L - Physical Geography Laboratory

Fall 2026 Syllabus, Section 02, CRN 41506,

Credit hours: 1

### Instructor

Danielle Lewis

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### Public Instructor Information

Part-time Teaching Faculty

Professional Qualifications:

B.A. in Geography, Indiana University of Pennsylvania (IUP)

M.S. in Sustainability Science, Chatham University

### Course Description

1503L. Physical Geography Laboratory. Observation, collection and analysis of data pertaining to the Earth's weather and climate, surface landforms, drainage systems, soils, vegetation and changing global environmental conditions. In-class labs, local field excursions, and web-based assignments enable students to investigate these phenomena using the scientific method. The class meets two hours each week. Optional lab to accompany GEOG 1503. Prereq.: GEOG 1503 or concurrent with GEOG 1503. 1 s.h.

### Course Readings

| Group    | Title                                                                   | Author                        | ISBN          |
|----------|-------------------------------------------------------------------------|-------------------------------|---------------|
| Optional | McKnight's Physical Geography: A Landscape Appreciation, latest Edition | Hess, Darrel, and Dennis Tasa | 9780134195421 |

Course Materials:

-Hess, Darrel, and Dennis Tasa, McKnight's Physical Geography: A Landscape Appreciation, latest Edition, New Jersey: Prentice Hall

-laptop or computer with internet

The course readings are subject to change in the event of extenuating circumstances, research developments, current events, and/or to ensure better learning.

### Schedule of Topics and Assignments

| Week of | Reading(s)                                                                           | Proposed Topic                                                | Due/To Prepare for Class                   |
|---------|--------------------------------------------------------------------------------------|---------------------------------------------------------------|--------------------------------------------|
| 8/24    | Review all videos, websites, maps, and attached articles before beginning your work. | Lab 0: Basic Elements (Extra Credit); Lab 1: Maps and Mapping | Lab 0/Syllabus Quiz; Lab 1 Quiz; Lab 0 & 1 |
| 8/31    | Review all videos, websites, maps, and attached articles before beginning your work. | Lab 2: Mapping and Geographic Tools                           | Lab 2 Quiz and Lab 2                       |
| 9/7     | Review all videos, websites, maps, and attached articles before beginning your work. | Lab 3: Atmospheric Disturbances                               | Lab 3 Quiz; Lab 3                          |
| 9/14    | Review all videos, websites, maps, and attached articles before beginning your work. | Lab 4: Atmospheric and Oceanic Circulation                    | Lab 4 Quiz; Lab 4                          |



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|-------|--------------------------------------------------------------------------------------|---------------------------------------------|-----------------------------------|
| 9/21  | Review all videos, websites, maps, and attached articles before beginning your work. | Lab 5: Weather Data; Lab 6: Weather Systems | Lab 5 Quiz; Lab 6 Quiz; Lab 5 & 6 |
| 9/28  | Review all videos, websites, maps, and attached articles before beginning your work. | Lab 7: Climate                              | Lab 7 Quiz; Lab 7                 |
| 10/5  | Review all videos, websites, maps, and attached articles before beginning your work. | Lab 8: Soils                                | Lab 8 Quiz; Lab 8                 |
| 10/12 | Review all videos, websites, maps, and attached articles before beginning your work. | Lab 9: Biomes and Ecological Units          | Lab 9 Quiz; Lab 9                 |
| 10/19 | Review all videos, websites, maps, and attached articles before beginning your work. | Lab 10: Landscape Analysis                  | Lab 10 Quiz; Lab 10               |
| 10/26 | Review all videos, websites, maps, and attached articles before beginning your work. | Lab 11: Drainage Pattern Analysis           | Lab 11 Quiz; Lab 11               |
| 11/2  | Review all videos, websites, maps, and attached articles before beginning your work. | Lab 12: Plate Tectonics and Volcanism       | Lab 12 Quiz; Lab 12               |
| 11/9  | Review all videos, websites, maps, and attached articles before beginning your work. | Lab 13: Glaciation                          | Lab 13 Quiz; Lab 13               |
| 11/16 | Review all videos, websites, maps, and attached articles before beginning your work. | Lab 14: Biodiversity                        | Lab 14 Quiz; Lab 14               |
| 11/23 | Review all videos, websites, maps, and attached articles before beginning your work. | Lab 15: Coastal Processes                   | Lab 15 Quiz; Lab 15               |
| 11/30 | Review all videos, websites, maps, and attached articles before beginning your work. | Lab 16: Desert Landforms                    | Lab 16 Quiz; Lab 16               |
| 12/7  | Review course materials and previous laboratory activities.                          | Final Exam                                  | Final Exam TBA                    |

The course schedule, policies, procedures, and assignments in this course are subject to change in the event of extenuating circumstances, by mutual agreement, and/or to ensure better learning.