

WILLIAM RAINEY HARPER COLLEGE
BUSINESS AND SOCIAL SCIENCE DIVISION
GENERAL COURSE OUTLINE

GEG	112	Physical Geography Laboratory	(0-2)	1
Course Prefix	Course Number	Course Title	Lec-Lab	Credit Hours

COURSE DESCRIPTION

Applies the scientific method of observation, hypothesis formation, and experimentation to Earth's four physical spheres: the atmosphere, the hydrosphere, the lithosphere, and the biosphere.

Prerequisite: Prior or concurrent enrollment in GEG 111.

TOPICAL OUTLINE

CARTOGRAPHIC ANALYSIS

- I Latitude, Longitude, and Time
- II Directions and Compass Readings
- III Map Projections, Map Reading, and Interpretation
- IV Contours and Topographic Maps

ATMOSPHERIC PROCESSES

- V Earth-Sun Relationships, Insolation, and Seasons
- VI Temperature Concepts and Patterns
- VII Earth's Atmosphere: Pressure Profiles and Pressure Patterns
- VIII Atmospheric Humidity, Stability, and Adiabatic Processes

TOPOGRAPHIC ANALYSIS

- IX Plate Tectonics
- X Fluvial Geomorphology
- XI Glacial Geomorphology
- XII Karst, Coastal, and Arid Landscapes

METHODS OF PRESENTATION

1. Laboratory and computer exercises

STUDENT OUTCOMES (The student should . . .)

1. Apply the scientific method in a laboratory setting.
2. Demonstrate a working knowledge of latitude and longitude, and map projections.
3. Understand general meteorological terms and atmospheric processes.
4. Demonstrate a general comprehension of plate tectonics.
5. Read topographic maps
6. Demonstrate a working knowledge of geomorphic processes

METHODS OF EVALUATION

1. Laboratory exercises
2. Written reports relating to individual assignments and cooperative learning activities
3. Problem sets/assignments
4. Exams/quizzes.

TEXTBOOK & INSTRUCTIONAL MATERIALS

McKnight, *Physical Geography Lab Manual*. 9th ed. Prentice Hall, 2008.

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