

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	Semester Hour

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. IAI P1 909L

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, Insulation, 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.

TEXTBOOKS/INSTRUCTIONAL MATERIALS

McKnight, *Physical Geography Lab Manual*. 10th ed. Prentice Hall, 2011.

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