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GEOGRAPHY**GEOG 101 The Natural Environment (3) KCC****AA/DP and KCC AS/NS***3 hours lecture per week**Prerequisite(s): Qualification for ENG 100; qualification for MATH 24.*

GEOG 101 is a survey of the global environment. Global patterns and processes of climatic, geomorphic, biological and soil systems are examined. Global environmental issues are explored in light of the concepts covered. Emphasis is placed on relating subject matter to Hawai'i and the Pacific.

Upon successful completion of GEOG 101, the student should be able to:

- Identify the physical processes shaping the earth's surface.
- Demonstrate knowledge of and ability to apply scientific systems of measurement to describe natural phenomena. Interpret and use topographic and biophysical maps.
- Demonstrate knowledge of and ability to apply scientific principles, theories, and methods in the study of the global environment.
- Assess the impact of human societies on the environment.
- Critically analyze problems within the framework of the course and communicate this knowledge in written form.

GEOG 101L The Natural Environment Lab (1)KCC AA/DY*3 hours lab per week**Prerequisite(s): Qualification for ENG 100; qualification for MATH 24.**Corequisite(s): Credit or concurrent enrollment in GEOG 101.*

GEOG 101L is a laboratory survey course of the global environment. Included in the course are analysis of the natural environment through field and laboratory observation/experiments. Emphasis is placed on Hawai'i and on human modification of the environment.

Upon successful completion of GEOG 101L, the student should be able to:

- Define a problem for study, gather and record data, analyze the data, arrive at appropriate conclusions and report the findings in written form.
- Use a variety of measuring instruments to gather environmental data.
- Demonstrate knowledge of and ability to apply the metric system, scientific notation, graphs, and geographic and basic statistical measurements.
- Demonstrate the ability to read and interpret graphs.
- Critically analyze problems within the framework of the course and communicate this knowledge in written form.

GEOG 102 World Regional Geography (3) KCC AA/FGB and KCC AS/SS*3 hours lecture per week**Prerequisite(s): Qualification for ENG 100; qualification for MATH 24.*

GEOG 102 is a survey of the world's major cultural regions. Economic, environmental, social, and political conditions are explored from a geographic perspective. Emphasis is placed on Asia and the Pacific.

Upon successful completion of GEOG 102, the student should be able to:

- Demonstrate an understanding of historical, social and environmental processes shaping the world's major cultural regions (Europe/Russia, North America, Middle and South America, Africa, Southwest Asia, South Asia, East Asia, Southeast Asia, Australia and the Pacific).
- Demonstrate knowledge of basic geographic terms, locations, concepts, theories, and methodology.
- Critically analyze international problems within the framework of the course using appropriate geographic methods and tools.
- Integrate geographic knowledge and research

skills (information research, critical reading/writing, quantitative, scientific methodology) into the development of a research paper.

- Perform designated tasks in an accurate, professional, scholarly and timely fashion.

GEOG 151 Geography and Contemporary Society (3) KCC AA/FGC and KCC AS/SS

3 hours lecture per week

Prerequisite(s): Qualification for ENG 100; qualification for MATH 24.

GEOG 151 provides a global thematic survey of human society and culture. Geographic distribution, historical development, and current issues in economic, resource, population, political, and environmental systems are examined. Emphasis is placed on relating subject matter to Asia, the Pacific, and Hawai'i.

Upon successful completion of GEOG 151, the student should be able to:

- Identify major themes in human society and culture and be familiar with their distribution.
- Explain the nature, history, and diffusion of cultural and societal characteristics.
- Synthesize cross-cultural perspectives on current issues in population, economy, politics, language, religion, customs, and conflict.
- Demonstrate knowledge of and ability to apply geographic theory and scientific methodology to the study of human societies.
- Critically analyze problems within the framework of the course using appropriate geographic methods and tools and communicate this knowledge in written form.

GEOLOGY & GEOPHYSICS

GG 101L Introduction to Physical Geology

Laboratory (1) KCC AA/DY

3 hours lab per week

Prerequisite(s): Credit or concurrent enrollment in GG 101, GG 103 or GG 200.

GG 101L is the study of rocks and minerals, interpretation of topographic and geologic maps, and exercises in the basic procedures of geologic investigations.

Upon successful completion of GG 101L, the student should be able to:

- Demonstrate an understanding of the basic principles of geology.
- Identify the major rock and ore-forming minerals.
- Classify the common igneous, metamorphic, and sedimentary rocks.
- Use topographic and geologic maps to study landforms, structure, and geologic history of an area.
- Identify landforms and structures produced by various geologic processes.
- Do some of the mathematical calculations used in the subdisciplines of geology such as geomorphology, geophysics, sedimentology, and geochemistry.

GG 103 Geology of the Hawaiian Islands (3) KCC AA/DP and KCC AS/NS

3 hours lecture per week

Recommended Preparation: Qualification for ENG 100.

GG 103 is a survey of Hawaiian geologic processes, volcanoes, rocks and minerals, landforms, groundwater and engineering problems. Field trips will be taken.

Upon successful completion of GG 103, the student should be able to:

- Demonstrate an understanding of earth science principles, including aspects of physics, chemistry, and biology that are basic to man's current understanding of the earth.
- Discuss the earth's physical processes, particularly those that bear on the geology of the Hawaiian Islands and other Pacific islands.
- Recognize structures and products of volcanoes and other igneous phenomena.
- Recognize and explain the existence of products of marine and terrestrial sedimentation in Hawai'i.
- Recognize Hawaiian landforms produced by various weathering and erosion processes.
- Discuss man's association with the geologic environment, his vulnerability to geologic hazards, his dependency on natural resources such as groundwater, and the environmental effects of his activities.
- Discuss the important aspects of the regional geology of Hawai'i.