

_____ SOUTH SEATTLE COMMUNITY COLLEGE _____

Academic Programs

COURSE OUTLINE

Revision: M. Von Der Ahe, April 2008

DEPARTMENT: Academic Programs

CURRICULUM: The Natural World

COURSE TITLE: Geology and the Human Environment

COURSE NUMBER: GEOL& 110

TYPE OF COURSE: Academic Transfer
Special Requirement Met: None

AREA(S) OF KNOWLEDGE: The Physical Universe

COURSE LENGTH: 1 quarter

CREDIT HOURS: 5

LECTURE HOURS: 44

LAB HOURS: 22

CLASS SIZE: 35

PREREQUISITES: None

COURSE DESCRIPTION:

Focus on effects of geologic processes and materials on human activity and vice versa. Emphasis on awareness of geologic aspects of our everyday environments and problems, formulations and evaluation of solutions. Lab included. Three Saturday field trips required.

GEOL& 110 Geology and the Human Environment
April 2008

STUDENT LEARNING OUTCOMES ADDRESSED:

1. Human Relations – Use social interactive skills to work in groups effectively.
2. Critical Thinking and Problem Solving – Think critically in evaluating information, solving problems and making decisions.
3. Technology – Select and use appropriate technological tools for personal, academic and career tasks.
4. Personal Responsibility – Be motivated and able to continue learning and adapt to change. Manage personal health and safety. Be aware of civic and environmental issues.

GENERAL COURSE OBJECTIVES:

At the end of the course the student will:

1. Understand the nature of the earth's surface materials
2. Understand processes in order that man may better utilize the resources he has.
3. Minimize the problems man has to deal with regarding resources.

TOPICAL OUTLINE:

- I. Fundamental principles of environmental geology
- II. Hazardous earth processes
- III. Man and environment
- IV. Waste reserves
- V. Waste disposal
- VI. Geology and environmental health
- VII. Minerals, energy and environment
- VIII. Land use and environmental impact

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DATE: April 2008

GEOL& 110

GEOL& 110 Geology and the Human Environment

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| SLO # | Included in Course Objective Number | SSCC Student Learning Outcomes |
|---------|-------------------------------------|---|
| SLO 1.1 | 1,2 | Communication - Read and listen actively |
| SLO 1.2 | 1 | Communication - Speak and write effectively |
| SLO 2.1 | 1 | Computation - Use mathematical operations |
| SLO 2.2 | 1 | Computation - Apply quantitative skills |
| SLO 2.3 | | Computation - Identify, interpret, and utilize higher level mathematical and cognitive skills |
| SLO 3.1 | 1,2 | Human Relations - Use social interactive skills to work in groups effectively |
| SLO 3.2 | 1 | Human Relations - Recognize the diversity of cultural influences and values |
| SLO 4.1 | 1,2,3 | Critical Thinking and Problem Solving - |
| SLO 5.1 | | Technology - Select and use appropriate technological tools |
| SLO 6.1 | 1 | Personal Responsibility - Be motivated and able to continue learning and adapt to change |
| SLO 6.2 | | Personal Responsibility - Value one's own skills, abilities, ideas and art |
| SLO 6.3 | 1 | Personal Responsibility - Take pride in one's work |
| SLO 6.4 | 2,3 | Personal Responsibility - Manage personal health and safety |
| SLO 6.5 | 2 | Personal Responsibility - Be aware of civic and environmental issues |
| SLO 7.1 | 1 | Information Literacy - Access and evaluate information |
| SLO 7.2 | 2,3 | Information Literacy - Use information to achieve personal, academic, and career goals, as well as to participate in a democratic society |

PREPARED BY: M. Von Der Ahe
DATE: April 2008