

## COURSE OUTLINE

Revision: M. Von Der Ahe, April 2008

DEPARTMENT: Academic Programs

CURRICULUM: The Natural World

COURSE TITLE: Evolution of the Earth

COURSE NUMBER: GEOL& 103

TYPE OF COURSE: Academic Transfer  
Special Requirement Met: None

AREA(S) OF KNOWLEDGE: The Living World

COURSE LENGTH: 1 quarter

CREDIT HOURS: 5

LECTURE HOURS: 44

LAB HOURS: 22

CLASS SIZE: 35

PREREQUISITES: None

## COURSE DESCRIPTION:

Formation and development through time of the solid Earth, atmosphere, and biosphere. Covers past movements and locations of the continents and interpretation of past environments as recorded in rock and fossil records. Lab included. One Saturday field trip required.

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#### STUDENT LEARNING OUTCOMES ADDRESSED:

1. Human Relations – Use social 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. Communication – Read and listen actively to learn and communicate
5. 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 scientific method of observation and analysis
2. Introduce the basic concepts and features of Evolution of the Earth including geologic time, plate tectonics, and evolution.
3. Demonstrate the identification of rocks and ancient plants and animals.
4. Understand the significant events of Planet Earth.

#### TOPICAL OUTLINE:

- I. Dynamic earth
- II. Plate tectonics
- III. Minerals and rocks
- IV. Sedimentary rocks
- V. Geologic time
- VI. Rocks, fossils and time
- VII. Evolution
- VIII. Origin of earth
- IX. Archean Eon
- X. Proterozoic Eon
- XI. Early Paleozoic Geology
- XII. Late Paleozoic Geology
- XIII. Paleozoic life
- XIV. Mesozoic geology
- XV. Mesozoic life
- XVI. Cenozoic geology

XVII. Quaternary geology  
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TOPICAL OUTLINE: (CONT.)

XVIII. Cenozoic life

XIX. Evolution of humans

Total hours

66

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SLO #	Included in Course Objective Number	SSCC Student Learning Outcomes
SLO 1.1	1,2,3,4	Communication - Read and listen actively
SLO 1.2	1,2,3,4	Communication - Speak and write effectively
SLO 2.1	2	Computation - Use mathematical operations
SLO 2.2	2	Computation - Apply quantitative skills
SLO 2.3		Computation - Identify, interpret, and utilize higher level mathematical and cognitive skills
SLO 3.1	3	Human Relations - Use social interactive skills to work in groups effectively
SLO 3.2		Human Relations - Recognize the diversity of cultural influences and values
SLO 4.1	1,2,3,4	Critical Thinking and Problem Solving -
SLO 5.1	1,2	Technology - Select and use appropriate technological tools
SLO 6.1	1,2,3,4	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		Personal Responsibility - Take pride in one's work
SLO 6.4		Personal Responsibility - Manage personal health and safety
SLO 6.5		Personal Responsibility - Be aware of civic and environmental issues
SLO 7.1	1,2,3,4	Information Literacy - Access and evaluate information
SLO 7.2	1,2,3,4	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