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.
GEOL& 103 Evolution of the Earth
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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

REVISED BY: M. Von Der Ahe
DATE: April 2008
<table>
<thead>
<tr>
<th>SLO #</th>
<th>Included in Course Objective Number</th>
<th>SSCC Student Learning Outcomes</th>
</tr>
</thead>
<tbody>
<tr>
<td>SLO 1.1</td>
<td>1,2,3,4</td>
<td>Communication - Read and listen actively</td>
</tr>
<tr>
<td>SLO 1.2</td>
<td>1,2,3,4</td>
<td>Communication - Speak and write effectively</td>
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<tr>
<td>SLO 2.1</td>
<td>2</td>
<td>Computation - Use mathematical operations</td>
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<tr>
<td>SLO 2.2</td>
<td>2</td>
<td>Computation - Apply quantitative skills</td>
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<tr>
<td>SLO 2.3</td>
<td></td>
<td>Computation - Identify, interpret, and utilize higher level mathematical and cognitive skills</td>
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<tr>
<td>SLO 3.1</td>
<td>3</td>
<td>Human Relations - Use social interactive skills to work in groups effectively</td>
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<tr>
<td>SLO 3.2</td>
<td></td>
<td>Human Relations - Recognize the diversity of cultural influences and values</td>
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<tr>
<td>SLO 4.1</td>
<td>1,2,3,4</td>
<td>Critical Thinking and Problem Solving -</td>
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<tr>
<td>SLO 5.1</td>
<td>1,2</td>
<td>Technology - Select and use appropriate technological tools</td>
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<tr>
<td>SLO 6.1</td>
<td>1,2,3,4</td>
<td>Personal Responsibility - Be motivated and able to continue learning and adapt to change</td>
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<tr>
<td>SLO 6.2</td>
<td></td>
<td>Personal Responsibility - Value one's own skills, abilities, ideas and art</td>
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<tr>
<td>SLO 6.3</td>
<td></td>
<td>Personal Responsibility - Take pride in one's work</td>
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<tr>
<td>SLO 6.4</td>
<td></td>
<td>Personal Responsibility - Manage personal health and safety</td>
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<tr>
<td>SLO 6.5</td>
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<td>Personal Responsibility - Be aware of civic and environmental issues</td>
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<tr>
<td>SLO 7.1</td>
<td>1,2,3,4</td>
<td>Information Literacy - Access and evaluate information</td>
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<tr>
<td>SLO 7.2</td>
<td>1,2,3,4</td>
<td>Information Literacy - Use information to achieve personal, academic, and career goals, as well as to participate in a democratic society</td>
</tr>
</tbody>
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