

## COURSE OUTLINE

Revision: M. Von Der Ahe, April 2008

DEPARTMENT:	Academic Programs
CURRICULUM:	The Natural World
COURSE TITLE:	Dinosaurs
COURSE NUMBER:	GEOL 106
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:	55
LAB HOURS:	0
CLASS SIZE:	35
PREREQUISITES:	None

## COURSE DESCRIPTION:

Their life, times and evolution and current theories about their extinction. Overview of the biological classification systems of dinosaurs within the geologic and evolutionary development of mammals. Covers the period between early-Paleozoic to meozoic transitions and their theories of extinction. Early Paleozoic vertebrates, paleobotany and plate tectonics, land tetrapods, prosauropods, sauropods, theropods, pterosaurs, ornithopods, and meozoic mammals will be covered.

GEOL 106 Dinosaurs  
April 2008

STUDENT LEARNING OUTCOMES ADDRESSED:

1. Critical Thinking and Problem Solving – Think critically in evaluating information, solving problems and making decisions.
2. Technology – Select and use appropriate technological tools for personal, academic and career tasks.
3. Information Literacy – Access and evaluate information from a variety of sources and contexts, including technology. Use information to achieve personal, academic, and career goals as well as to participate in a democratic society.

GENERAL COURSE OBJECTIVES:

At the end of the course the student will:

1. Develop an understanding of types of classification systems of families and dinosaurs.
2. Classify dinosaurs according to geologic and evolutionary time periods.
3. Discuss relationship of geologic and climate changes to theories of dinosaur extinction.

TOPICAL OUTLINE:

- I. Overview of biological classification, vertebrate body plan, geologic time
- II. Early-Paleozoic vertebrates
- III. Palaeobotony, plate tectonics
- IV. Late-Paleozoic land tetrapods
- V. Palaeozoic/Mesozoic transition; dinosaurs and other diapsids

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SLO #	Included in Course Objective Number	SSCC Student Learning Outcomes
SLO 1.1	1,2,3	Communication - Read and listen actively
SLO 1.2	1,2,3	Communication - Speak and write effectively
SLO 2.1	2,3	Computation - Use mathematical operations
SLO 2.2	2,3	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	Critical Thinking and Problem Solving -
SLO 5.1	1,2,3	Technology - Select and use appropriate technological tools
SLO 6.1	1,2,3	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	Information Literacy - Access and evaluate information
SLO 7.2	1,2,3	Information Literacy - Use information to achieve personal, academic, and career goals, as well as to participate in a democratic society

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