Douglas College

Course Information

A: Division: INSTRUCTIONAL DATE: 21 June 1999

Department: SCIENCE & TECHNOLOGY New Course: X B: Dens

Revision of Course Information form: ____

DATED: _____

GEOL 320	D:	Paleontology: Life Through Time	E:	4	C:
ct & Course No.		Descriptive Title		Semester Credit	Subjec

the nature and Summary of Revisions: F: Calendar Description: This course investigates
ossil record Students will learn how fossils are (Enter date & section) interpretation of the f

Geo. 320

N: Textbooks and materials to be purchased by students
(Use Bibliographic Format)

Robert L. Carroll (1988) *Paleontology: The Evolution of Life*. John Wiley & Sons, Inc. New York

Steam, Colin W. and

Complete Form with Entries Under the Following Headings:

O. Course Objectives; P. Course Content; Q. Method of Instruction;

R. Course Evaluation

O. Course Objectives:

Upon successful completion of this course the student will be able to:

1. Us
2. De
3. Describe the major changes in life through geologic time and the evidence used to support the interpretation(s) of the fossil
4. Show an understanding of how the principles of Biostratigraphy are used to
5. Show an understanding of the mechanisms of evolution
6. Show a
7. Describe the uses of trace fossils and be able to identify a variety of trace fossils.

P. Course content:

1. Defining fos
   a. Fossilization types
   b. Taxonomy, classification, early classification and systematics
   c. Taphonomic theory and examples
   d. Individuals and populations
2. The fossil record
   a. Precambrian organisms
   b. The rise of animals with hard parts
   c. Marine invertebrates of the Paleozoic
   d. Land plants and their origins
   e. Paleozoic vertebrates
   f. Marine invertebrates of the Mesozoic and Cenozoic
   g. Mesozoic vertebrates
   h. Cenozoic vertebrates
3. What we learn from the record
   a. Biostratigraphy
   b. Paleoecology
   c. The mechanisms of evolution
   d. The record of evolution

e. Paleoenvironmental reconstruction
f. Paleobiogeography
g. Fossils and sedimentary rocks
h. Trace fossils

Q. Method of instruction:

[redacted]