Office of Academic Affairs  
Tarleton State University  
July, 2002  

Master Course Syllabus Outline

Department: Chemistry, Geosciences & Environ. Sci.  Course Prefix/Number: GEOL 3134

Official Course Title: Stratigraphy and Sedimentology

Master Syllabus Approved by Department on: _____/_____/_____
month date year

I. Catalog Description  (50 words; brief synopsis of course content, emphases)

A study of the origin, transportation, and deposition of sediments and the formation of sedimentary rocks. Emphasis is on the study of strata and depositional systems and the utilization of sedimentology and stratigraphy in economic geology, environmental geology, hydrogeology and petroleum geology. Prerequisites: GEOL 1054, 1064, 2034. Lab fee $10.

II. Prerequisites?

GEOL 1054, 1064, 2034.

III. Expanded Course Description (150 words; primary course content, intended student level and role(s) course is to play in the curriculum)

This is an upper-level course that is recommended for students majoring or minoring in Geoscience, and especially those within the support areas of Geology, Environmental Science, and Earth Science. Topics covered include lithostratigraphy, biostratigraphy, chronostratigraphy, sedimentary transport and deposition, diagenesis, as well as detailed analyses of terrestrial, transitional and marine depositional environments.

IV. Intended Student Learning Outcomes?  Required; knowledge outcomes (what students who successfully complete the course will be expected to know). Optional; skill outcomes (what students who successfully complete the course will be able to do). Optional; value outcomes (what students who successfully complete the course will value or appreciate).

Knowledge Outcomes.

The student should generally understand how sedimentologists construct hypotheses and how they analyze and interpret sedimentological data. The student should comprehend how sedimentology and stratigraphy is utilized in geological studies and the geology and environmental science industries.
Value Outcomes.

Knowledge of sedimentology allows the student to better understand the formation and distribution of their natural resources. Sedimentological studies are widely used in conservation practices, and hopefully the student will become better stewards of the World ecosystem.

V. Unless otherwise stipulated in this master syllabus by the department, the following items are subject to faculty discretion as described in each faculty member's individual course outline/syllabus:

a) Course Requirements? (grading/evaluation procedures; class attendance policy; term papers, projects, field assignments; examinations; class participation, etc.).

Lecture and lab is counted equally. Grading is based on the averages of several lecture tests and a final exam in lecture, and tests and lab exercises for the laboratory. Class attendance is important, but a student will not be penalized for not attending the lectures.

b) Required Text(s)?

A lecture text and lab manual is required.

c) Bibliography?

Department Head Signature/Date:

______________________________             ___________/ ____ /_______

Signature                                                 Date