

LSC Use Only:
Number: _____
Submission Date: _____
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Number: 00-47c
Submission Date: _____
Action Date: UWUCC App 3/13/01
Senate App 4/3/01

CURRICULUM PROPOSAL COVER SHEET
University-Wide Undergraduate Curriculum Committee

I. CONTACT

Contact Person Keith Putirka Phone x5627
Department Geoscience

II. PROPOSAL TYPE (Check All Appropriate Lines)

☒ **COURSE** Historical Geology Lab
Suggested 20 character title

_____**New Course*** _____
Course Number and Full Title

☒ **Course Revision** GEOS 132. Historical Geology Lab
Course Number and Full Title

_____**Liberal Studies Approval** _____
for new or existing course _____
Course Number and Full Title

_____**Course Deletion** _____
Course Number and Full Title

_____**Number and/or Title** _____
Change _____
Old Number and/or Full Old Title

_____**Course or Catalog Description Change** _____
New Number and/or Full New Title
Course Number and Full Title

_____**PROGRAM:** _____**Major** _____**Minor** _____**Track**
_____**New Program*** _____

_____**Program Name** _____

_____**Program Revision** _____
Program Name

_____**Program Deletion*** _____
Program Name

_____**Title Change** _____
Old Program Name

_____**New Program Name** _____

III. Approvals (signatures and date)

Richard
Department Curriculum Committee

Richard 12/14/00
Department Chair

[Signature]
College Curriculum Committee

John D. Edr 12/19/00
College Dean

Director of Liberal Studies (where applicable)

*Provost (where applicable)

Part II

1. Description of the Curriculum Change

A. Catalog Description

GEOS 132 Historical Geology Laboratory

0 lecture hours
3 lab hours
1 credit
(0c-3l-1sh)

Prerequisites: GEOS 121 and 122

Corequisite: Enrollment in GEOS 131

Selected problems in stratigraphic analysis, paleontology and structural geology; designed to prepare students for upper-level geology classes. Includes field trips.

2. Summary of Proposed Revisions

A. Comparison of Catalog Descriptions

Current Catalog Description:

GEOS 132 Historical Geology Laboratory

0 lecture hours
3 lab hours
1 credit
(0c-3l-1sh)

Prerequisites: GEOS 121/122; Geoscience majors/minors, any Science or Science Education majors/minors; Anthropology, Geography/Regional Planning majors, or permission of instructor.

Corequisite: Enrollment in GEOS 131

Selected problems in stratigraphic analysis, paleontology and structural geology; designed to prepare students for upper-level geology classes. Includes field trips

Proposed Catalog Description:

GEOS 132 Historical Geology Laboratory

0 lecture hours
3 lab hours
1 credits
(0c-3l-1sh)

Prerequisites: GEOS 121 and 122

Corequisite: Enrollment in GEOS 131

Selected problems in stratigraphic analysis, paleontology and structural geology; designed to prepare students for upper-level geology classes. Includes field trips.

B. Summary of revisions

The prerequisites for GEOS 132 have been changed.

3. Justification for Revision:

By deletion of the enrollment restriction, non-majors may enroll in the course; this change makes GEOS 132 consistent with GEOS 122, which has recently been opened to non-majors.

4. Old Syllabus of record (same as new syllabus of record)

Attached

5. Letters of support:

Because the content of the course is not changing and because we have made the course open to more students rather than fewer students, we believe no letters of support are required. We have informed Anthropology and Geography/Regional Planning of these changes. We have also informed Liberal Studies of these changes--GEOS 131 will not be available as a Liberal Studies non-lab science option. Liberal Studies will get this proposal after approval by the college curriculum committee (as with GEOS 121/122).

I. Catalog Description (current):

GEOS 132 Historical Geology Laboratory

0 lecture hours
3 lab hours
1 credit
(0c-3l-1sh)

Prerequisites: GEOS 121/122; Geoscience majors/minors, science or science education majors/minors, Anthropology, Geography/Regional Planning Majors, or Permission of Instructor

Corequisite: Enrollment in GEOS 131

Selected problems in stratigraphic analysis, paleontology, and structural geology.

Designed to prepare students for upper-level geology classes. Includes field trips.

I. Catalog Description (proposed):

GEOS 132 Historical Geology Laboratory

0 lecture hours
3 lab hours
1 credit
(0c-3l-1sh)

Prerequisites: GEOS 121/122

Corequisite: Enrollment in GEOS 131

Selected problems in stratigraphic analysis, paleontology, and structural geology.

Designed to prepare students for upper-level geology classes. Includes field trips.

II. Course Objectives

1. Students will learn to identify the major groups of fossil organisms.
2. Students will further their knowledge of geologic maps and cross-sections.
3. Students will apply their map and sample identification skills to reconstruct ancient earth environments and to determine the nature of fossil organisms
4. Students will gain enough knowledge and understanding of fossils and maps to prepare them for upper-level geology and environmental geoscience lab-work.

III. Course Outline

- A. Introduction to Fossils (2 labs)
 - Fossil preservation I
 - Fossil preservation II
- B. Majors groups of invertebrate fossils (3 labs)
 - Forams through brachiopods
 - Molluscs: gastropods, pelecypods and cephalopods
 - Vertebrates and plants
- C. Fossil collecting and identification field trip (1 lab)
 - Shelocta field trip
- D. Midterm Exam (1 lab)
- E. Geologic map and cross-sections skills (4 labs)
 - Simple fold structures
 - Complex fold structures
 - Fault structures
 - Regional geology of the Gettysburg battlefield
- F. Map and fossil synthesis field trips (2 labs)
 - Conemaugh Gorge field trip
 - Altoona quarry field trip
- G. Final Exam (1 lab)

IV. Evaluation Methods

Grades for GS 131 (lecture) and GS 132 (lab) are reported separately and do not affect each other. Your grade for GS 132 will be determined from an average of two 100-point lab exams, each adjusted to a mean of 75% so that 90-100%=A; 80-89%=B; 70-79%=C; 60-69%=D; and below 60%=F.

V. Required Textbook, Supplemental Book and Readings

IUP Historical Geology Lab Manual. This lab manual was locally developed to take advantage of the unique local geology of the Indiana area. Several nationally published lab manuals were consulted during the development process to ensure quality, parity and relevance to national trends.

VI. Special Resource Requirements: None

VII. Bibliography:

Dathe, D. 1993, FUNDAMENTALS OF HISTORICAL GEOLOGY. Dubuque: Wm. C Brown Publishers, 246 p.

Lemon R.R., 1993, VANISHED WORLDS: AN INTRODUCTION TO HISTORICAL GEOLOGY. Dubuque, William Brown Publishers, 480 p.

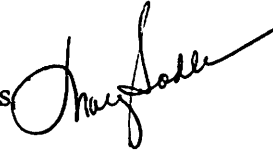
Petersen, M.S. and Rigby, J. K., 1994, INTERPRETING EARTH HISTORY: A MANUAL IN HISTORICAL GEOLOGY (5th ed). Dubuque: Wm. Brown Publishers, 222 p.

Stanley, S.M., 1989, EARTH & LIFE THROUGH TIME (2nd ed). New York: W.H. Freeman and Company, 689 p.

Liberal Studies Office
110 Gordon Hall Ext. 7-5715

Dr. Mary E. Sadler
email: msadler

Date: February 2, 2001
To: Dr. Keith Putirka
From: Dr. Mary E. Sadler, Director Liberal Studies
Subject: Liberal Studies approvals



At the January 25, 2001 meeting of the Liberal Studies Committee the following proposals were reviewed and approved:

GEOS 131 Historical Geology – prerequisite change approved,

GEOS 132 Historical Geology Lab - prerequisite change approved.

Please note that the current catalog does not list GEOS 121/122 as a prerequisite for GEOS 131 as indicated in your proposal. Therefore, even though this may be a catalog error, the catalog description as it appears in the current catalog needs to be replicated before the proposal is approved by the UWUCC and forwarded to Senate. There was also some confusion about the correct numbers for the “sister courses” in the justification section of your proposal. Please check on this and forward any corrections to the UWUCC, Screening Committee #3.

A copy of this memo is forwarded to the UWUCC so it is available as they review these proposals. Please don't hesitate to ask if you have any questions about the review process.

CC: Dr. Darlene Richardson, Chair
Dr. John Eck, Dean
UWUCC, Screening Committee #3