

18-8d.

1. General

2. Programs

3. Personnel

4. Equipment

5. Materials

6. Methods

7. Records

8. Quality Control

9. Other

10. Summary

Geoscience Department: Program Revision for Minor in Geology

Part II. Description of Curriculum Change

1. Catalog Description

Note: This revised catalog description applies to the Geoscience Department's B.S. in Geology/Geology
Track, B.S. in Geology/Environmental Track, B.S. in Education, Earth and Space Science, and M.S.

Geology.

The catalog will be revised to read as follows:

Geology is the scientific study of the Earth and its various features, including the atmosphere, hydrosphere, and lithosphere. It encompasses the study of the Earth's history, structure, and processes, as well as the resources and hazards associated with the Earth's system. In addition to the

List of courses and credits for the proposed revised program:

Minor - Geology

Required Courses:

GEOS 201 Foundations of Geology	4cr	18
GEOS 202 Quantitative Methods in the Geosciences	2cr	

12 credits from the following list: 12cr

~~GEOS 203 Physical Geology~~

Any 300-level GEOS course

(1) Only one Geoscience Field Workshop (including prerequisite Seminar) can be counted toward the minor.

2. Summary of Changes

2 (a). Comparisons of current and proposed program

Minor-Geology

(Current)

Required:

GEOS 121 Physical Geology 3cr

Minor-Geology

(Proposed)

Required Courses:

GEOS 201 Foundations of Geology 4cr

17

18

GEOS 122 Physical Geology Laboratory

1cr

GEOS 202 Quantitative Methods in the Geosciences

2cr

~~GEOS 123 Historical Geology~~

~~3cr~~

12 credits from the following list:

12cr

2 (b). List of Associated Course Changes

Course Proposals Included in Program Revisions

New #	Old #	Title	Format	Revision
GEOS 111	NA	Earth Science for Educators I	NA	Deleted
GEOS 112	NA	Earth Science for Educators II	NA	Deleted

GEOS 113	NA	Earth Science for Educators II	NA	Deleted
GEOS 114	NA	Earth Science for Educators II Lab	NA	Deleted
GEOS 121	NA	Physical Geology	NA	Deleted
GEOS 122	NA	Physical Geology Lab	NA	Deleted
GEOS 123	NA	Applied Mathematics in the Geosciences	NA	Deleted
GEOS 124	NA	Historical Geology Lab	NA	Deleted

GEOS 141	NA	Introduction to Ocean Science	NA	Deleted
GEOS 201	NA	Foundations of Geology	3c-3l-4cr	New course
GEOS 202	NA	Quantitative Methods in the Geosciences	3c-3l-3cr	New course

371). 400-level courses include field workshops and associated seminars (401-408), our senior-level two-course research sequence (470, 480), special topics, independent study and internship courses (481-482, 493). Below are our proposed course offerings listed by “new” course numbers.

Proposed Geoscience Course Offerings

Course	Title	Format	Prerequisites
GEOS 101	The Dynamic Earth	3c-0l-3cr	None
GEOS 102	The Dynamic Earth Lab	0c-1l-1cr	None
GEOS 103	Oceans and Atmospheres	3c-0l-3cr	None
GEOS 104	Oceans and Atmospheres Lab	0c-1l-1cr	None
GEOS 105	Exploring the Universe	3c-0l-3cr	None
GEOS 201	Foundations of Geology	3c-3l-4cr	Geoscience majors and minors, and Science or Science Education majors/minors, Anthropology, Geography and Regional Planning majors, or instructor permission
GEOS 202	Quantitative Methods in the Geosciences	2c-0l-2cr	Geoscience majors and minors only, or permission of instructor; must be taken after or concurrently with GEOS 201
GEOS 203	Surficial Processes	3c-3l-4cr	GEOS 201
GEOS 250	Geology of National Parks	3c-0l-3cr	None
GEOS 251	The Age of Dinosaurs	3c-0l-3cr	None
GEOS 252	Physical Resources of the Earth	3c-0l-3cr	None
GEOS 253	Forensic Geology	3c-0l-3cr	None
GEOS 254	Exploration of Space	3c-0l-3cr	None
GEOS 301	Mineralogy and Petrology	3c-3l-4cr	GEOS 201 202
GEOS 302	Structural Geology	3c-3l-4cr	GEOS 201 202

Rationale for Geoscience Department Programmatic Changes

Note: This section applies to proposed program revisions for the Geoscience Department's B.S. in Geology/Geology Track, B.S. in Geology/Environmental Track, B.S. in Education-Earth and Space Science, and Minor in Geology. As such, this text will be repeated in the revision proposals for all these programs.

Never has the need for broad public understanding of our Earth and its dynamic systems been as critical as at present. Our understanding of large-scale geological processes and the volume of knowledge encompassed by the geosciences have grown exponentially over the past several decades. At the same time, our pedagogical appreciation of "how students think and learn" has driven a substantial shift in our

approach to teaching science. In a series of meetings held over the past three years, the Geoscience Department outlined a number of goals (see below), which would significantly improve our programs

Modernizing Curricular Offerings

geosciences over the past twenty years. A number of our course proposals involve the increase in the number of lecture hours to accommodate additional course content. These include (see above table; numbers given are "new" course numbers): GEOS 202 Structural Geology; GEOS 203 Field Geology;

GEOS 203 is a prerequisite for many of 300-level and 400-level classes that Geology minors may take.

- c. environmental issues (all majors)
- d. evolution of solar system & universe (education majors)

A consultation in February of 2005 with Dr. Barbara Walvoord helped us simplify and streamline our initial ideas to create the following student assessment plan [NOTE: All course numbers are the new proposed course numbers]:

1. All students in the geology program will be required to take GEOS 480 Geoscience Seminar and

present talks at Geoscience Day. These students will be rated on the writing of their abstract, their oral

Part V. Course Proposals

Attached are all required course proposals for the above changes.

Part VI. Letters of Support

February 11, 2008: At the request of the College of Natural Science and Mathematics' Curriculum Committee, Dr. Poage sent the attached for-information notice concerning proposed changes in controlled electives to Mr. Wolfe, the Computer Science Department's representative to the Committee.

IUP I-M



Reply

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To: ""
Cc: ""

Mike,

Thank
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



Reply



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From: "Michael A Poage" <mpoage@iup.edu>

Subject: Letter of Support?

Date: Tue, 04 Sep 2007 13:45:26 -0400

To: jbenhart

Cc: jclewis

Headers

Decode

Dear John,

The Department of Geoscience is in the final stages of assembling program revisions proposals involving extensive curricular changes. Amongst these is the development of a new set of introductory courses for our majors (GEOS 201, 202, 203). GEOS 203 Surficial Processes has some content overlap with GEOS 210.

Indiana University of Pennsylvania

Michael A. Poage, Ph.D.
Department of Geoscience
118 Walsh Hall

TELEPHONE: 724-357-5627
FAX: 724-357-5700

August 31, 2007

Dr. Amadu Ayebo
Chair, Department of Biology Curriculum Committee

Dear Dr. Ayebo,

The Department of Geoscience is proposing substantial curricular changes that will impact some Biology Department programs. As per the Undergraduate Catalog the following Biology

programs list GEOS course among their Ancillary Science Courses or Controlled Electives:

Bachelor of Arts and Bachelor of Science – Biology

Ancillary Science Courses (4-5 credits for BA; 20-21 credits for BS):

GEOS 121/122 Physical Geology Lecture and Lab [3c-0l-3cr; 0c-3l-1cr]

GEOS 121/122 Historical Geology Lecture and Lab [3c-0l-3cr; 0c-3l-1cr]

If you have any questions, do not hesitate to contact me. I will be happy to meet with your department curriculum committee to discuss this matter if need be.

Sincerely,

Michael Poage
Chair, Department of Geoscience Curriculum Committee

Indiana University of Pennsylvania

Michael A. Poage, Ph.D.

Department of Geosciences

TELEPHONE: 724 267 5607

Indiana, PA 15705-1087

E-MAIL: mpoage@iup.edu

September 11, 2007

Dr. John Woolcock
Chair, Department of Chemistry

Dear Dr. Woolcock,

As we discussed in our meeting with Dr. Michael Briggs yesterday, the Department of Geosciences is proposing significant curricular and programmatic changes that will impact

Indiana University of Pennsylvania

Department of Chemistry
Weyandt Hall, Room 143
975 Oakland Avenue

724-357-2361
Fax: 724-357-2437
Internet: <http://www.iup.edu>

Indiana, Pennsylvania 15705-1076

To: Dr. Michael Poage

From: John Woolcock, Chair, IUP Chemistry Department

Subject: Deletion of GEOS 111/112 and GEOS 113/114

The Chemistry Department Curriculum Committee and the Chemistry Faculty voted on 11/27/07 to support the deletion of GEOS 111/112 and GEOS 113/114 with the understanding that GEOS 201 would be used to satisfy the experience course requirement

by CHED majors in our Department instead of GEOS 111/112 or GEOS 113/114. Also we would like the Chairs of the Chemistry and Geoscience Departments to agree to work out a scheduling of the course so that there are no time conflicts with this and other CHEM courses that CHED students take during the same semester including CHEM 3321, 341 and

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From: "Michael A. Deane" <...>

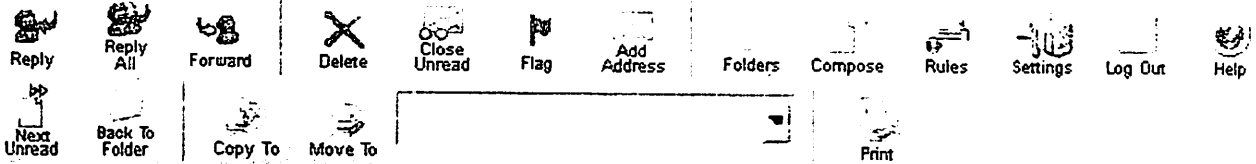
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From: "Michael A Poage" <mpoage@iup.edu>
Subject: Prerequisite change



IUP I-Mail: Message from Sent Items Folder



From: "Michael A Poage" <mpoage@iup.edu>
 Subject: Geoscience Controlled Elective Changes
 Date: Mon, 11 Feb 2008 09:13:39 -0500
 To: jlwolfe
 Cc: oblitey, hovan

Headers
 Decode

Dear Mr. Wolfe,

At the request of the College of Natural Science and Mathematics' Curriculum Committee, I

electives of the Geoscience Department (e.g., COSC 250, 310, and 362)

B.S.-Geology/Environmental Track. As discussed in the College Curriculum Committee's December meeting, the Geoscience department is proposing to include COSC 250, 310, and 362 as controlled electives in these programs. where previously only COSC 250 was listed as a