

08-7tt

LSC Use Only No:	LSC Action-Date:	UWUCC USE Only No.	UWUCC Action-Date:	Senate Action Date:
		07-43TE	App-10/14/08	App-2/24/09

Curriculum Proposal Cover Sheet - University-Wide Undergraduate Curriculum Committee

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Proposing Department/Unit Geosciences - Natural Sciences and Mathematics	Phone 724-357-7662

Check all appropriate lines and complete information as requested. Use a separate cover sheet for each course proposal and for each program proposal.

1. Course Proposals (check all that apply)
 New Course Course Prefix Change Course Deletion
 Course Revision Course Number and/or Title Change Catalog Description Change

GEOS 480 Geoscience Seminar	GEOS 480 Geoscience Seminar
<i>Current Course prefix, number and full title</i>	<i>Proposed course prefix, number and full title, if changing</i>

2. Additional Course Designations: check if appropriate
 This course is also proposed as a Liberal Studies Course. Other: (e.g., Women's Studies, Pan-African)
 This course is also proposed as an Honors College Course.

3. Program Proposals
 New Degree Program Program Title Change Program Revision
 New Minor Program New Track Other

<i>Current program name</i>	<i>Proposed program name, if changing</i>
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4. Approvals

		Date
Department Curriculum Committee Chair(s)		2/4/08
Department Chair(s)		2/4/08
College Curriculum Committee Chair		2-11-08
College Dean		2-11-08
Director of Liberal Studies *		
Director of Honors College *		
Provost *		
Additional signatures as appropriate: (include title)		
UWUCC Co-Chairs		10/14/08

* where applicable

Received

SEP 25 2008

Liberal Studies

Received

FEB 14 2008

Liberal Studies

Part II. Description of Curricular Change

1. SYLLABUS OF RECORD

I. Catalog Description

GEOS 480 Geoscience Seminar

2c-01-2cr

Prerequisite: GEOS 470, Senior standing

For seniors majoring in some aspect of geoscience. The seminar 1) provides an opportunity to prepare, formally present, and defend a scientific paper based either on his/her own research or on a topic chosen with the approval of instructor and 2) provides opportunity to discuss topics presented by other students, faculty, or guests.

II. Course Objectives

At the end of this course students will be able to:

- 1) Analyze, synthesize and summarize research data.
- 2) Employ appropriate techniques used to give a professional scientific presentation.
- 3) Defend their individual thesis project and be able to explain the importance of it within the broader context of geological sciences and society.

III. Course Outline

Lecture

Part A (12 academic hours): Scientific Analysis and Presentation of Data

1. Analysis of data
2. Graphical presentation of data
3. Abstract writing
4. Scientific writing and referencing

Part B (16 academic hours): Formal presentation of data

1. Using Powerpoint to build a scientific presentation
2. Graphical presentation techniques
3. Oral presentation techniques
4. Critiquing and critical feedback

Final Examination will consist of formal Geoscience Presentation

IV. Evaluation Methods

Each component of the course will contribute to final grade as follows:

Classroom exercises	15%
Peer critique analysis	10%
Abstract	10%
Geoscience Day presentation	<u>65%</u>
Total	100%

V. Example Grading Scale

The final grade for this course will be determined using the following schedule:

A=90-100%; B=80-89%, C=70-79%, D=60-69%, F=<60%

VI. Attendance Policy

The attendance policy will conform to IUP's undergraduate course attendance policy.

VII. Required textbooks, supplemental books and readings

There are no required textbooks for this course. Individual reading assignments will be assigned as appropriate.

VIII. Special resource requirements

There are no special resource requirements for this course.

IX. Bibliography

The following will be used to develop the course curriculum:

- Alley, M., (2003) *The Craft of Scientific Presentations*, New York: Springer-Verlag New York, Inc.
Day, R. A., (1994) *How to Write and Publish a Scientific Paper*, 4th ed., Phoenix: Oryx Press, pp. 8-14.
Markel, M., (1996) *Technical Communication*, 4th ed., New York: St. Martin's Press, pp. 420-421
Medawar, P.B., (1979) *Advice to a Young Scientist* New York: Harper & Row, pp. 66-68.
Strunk and White, (1998) *Elements of Style*, Geneva, NY: Humphrey.
Writing Laboratory at Purdue University, <http://owl.english.purdue.edu/>, West Lafayette, Indiana: Purdue University, 2005.
Writing Center at the University of Toronto, <http://www.ecf.toronto.edu:80/~writing/lab.htm>, Toronto: University of Toronto, 2005.
Writing Center at the University of Wisconsin, <http://www.wisc.edu/writing/>, Madison: University of Wisconsin, 2004.

2. SUMMARY OF PROPOSED REVISIONS

The course description was updated to reflect a greater emphasis of IUP Geoscience Day presentations as a culminating experience for Geoscience majors. Our new program places a strong emphasis on experiential education and student research and an additional hour of class time was added to reflect this. In addition to preparation of their thesis presentations, students will be asked to spend considerable time observing formal seminar presentations by faculty and guests during the department's seminar series and critiquing each other.

3. JUSTIFICATION/RATIONALE

Graduating seniors are required to prepare, present and defend a formal research presentation as part of their graduating requirements. This course requires considerable one-on-one time with faculty mentors to prepare individual research results. In addition, students are asked to collaboratively critique each other through weekly practice sessions. A two-hour credit load more fairly represents the work associated with this course than was previously given to students.

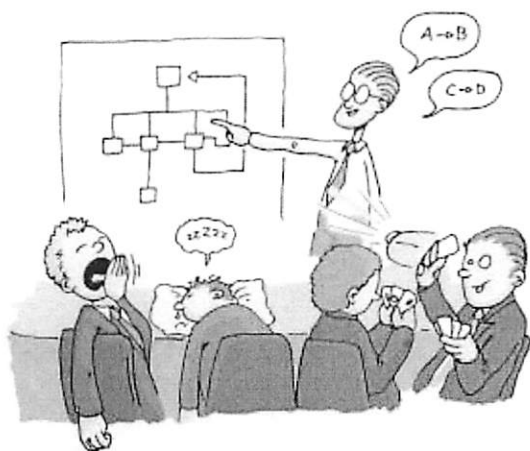
4. OLD SYLLABUS OF RECORD

There is no available syllabus of record for this course. A copy of the most recent syllabus of instruction is attached.

Part III. Letters of Support or Acknowledgment

No other departments or programs are affected by these revisions.

GEOS 480 Geoscience Seminar Spring 2008



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Office Hrs: MW 9:00-10:00 AM
 M 12:-30-2:30 & F 2:30-3:30
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Course Objectives

The main goal of this one-credit class is to create and deliver a short professional geological presentation, appropriate for a GSA or AAPG national or regional meeting. Additional goals include the transformation of recently collected research data into a format that is understandable to non-experts in the field; effective use of computer presentation software to illustrate your research project and the development of a speaking style that clearly communicates your scientific conclusions.

Date	Topic	Assignment Due In
Jan 18	Introduction	
Jan 25	General Presentation Guidelines	<u>Web-Based Lesson</u>
Feb 1	PowerPoint Slide Design Studio	
Feb 8	Excel Graph Design Studio	<u>Project Timeline</u>
Feb 15	<i>Consultations as Needed during Project Research</i>	
Feb 22	<i>Consultations as Needed during Project Research</i>	<u>PGS Talk Critique</u>
Feb 29	<i>Consultations as Needed during Project Research</i>	
March 7	<i>Consultations as Needed during Project Research</i>	
March 21	Geoscience Day Rubric Construction	<u>Three Data Graphs</u>
March 28	Abstract Writing Guidelines	
Apr 4	Final Design Style Show & Tell	<u>Project Abstract</u>
Apr 11	Practice Session I (all intro & background slides)	
Apr 18	Practice Session II (all original data slides)	
Apr 23	Practice Session III (all slides with conclusions)	
Apr 25	GEOSCIENCE DAY	<u>Project Presentation</u>

Course Evaluation

The bulk of your grade in this course (85%) will depend on the evaluation of your Geoscience Day presentation and abstract by the entire Geoscience faculty. The other 15% will depend on your participation and attendance in scheduled meetings and practice sessions and the timely submission of all required assignments.