

OBR	
Received(time)	10:51 AM
Date	7/11/2006

**Ohio Articulation Number (OAN)
Course Submission Form
2005-2006**



College/University Bowling Green State University

Course(s) Submitted(Title & Course #) **GEOL 104. Earth Environments** for
Ohio Articulation Number OSC 011

Date April 6, 2006 Course _____ of a _____ Course OAN mapping.

Name and title of individual submitting on behalf of the college/university

Name Mark Gromko Title Vice Provost for Academic Programs

Address Provost's Office, BGSU, BG,
OH 43403

E-mail mgromko@bgnet.bgsu.edu

Phone 419 372 7794

Fax 419 372 8446

Credit Hours 4 qtr _____ sem x

Lecture Hours 3

Laboratory Hours 2 (if applicable)

Pre-Requisites(s) Course work (if applicable)

Placement Score (if applicable)

(Name of test) _____

(Domain) _____ (Score) _____

Catalog/Course Description (Includes Course Title and Course #)

GEOL 104. Earth Environments (4). Fall, Spring, Summer. Introduction to the science of geology. Relationship of man to physical environment of the earth and its natural resources. Three lectures and one two-hour laboratory. Credit allowed for no more than one: **GEOL 100** ,**GEOL 101** ,**GEOL 104** . Applicable to the BG Perspective (general education) natural sciences requirement. Extra

fee.

Texts/Outside Readings/Ancillary Materials

Course Objectives and/or Plan of Work

Course Goals: A General Education Natural Science course is intended to provide an understanding of science. This knowledge is essential for any person who strives to be an informed citizen. Knowledge of basic science is important for rationally analyzing many current political issues, such as the environment, human health, and energy and other resources. The world in which you function continues to become more science and technology based. The goal of the General Education Natural Science requirement is to help you cope with this ever-growing complexity.

Learning Objectives

- To understand science in general and its importance to society
- To develop critical thinking and problem-solving skills
- To gain a better understanding and appreciation for Earth environments and processes and their relevance to society

Description of Assessment and/or Evaluation of Student Learning

See attached syllabus. Examples of techniques used to assess student learning include pre-and post-class non-graded exams, key questions geared to specific learning outcomes on final exams.

Master Syllabi and Working Syllabi (if both are used)

See attached working syllabus example. The following is from that document:

<u>week</u>	<u>date</u>	<u>lecture topic</u>	<u>reading (text)</u>	<u>laboratory</u>
1	JAN 9	introduction	1.0–1.3	No Lab
	11	Earth systems	1.4, 1.6	
	13	Earth interior	1.5, 8.1	
2	16	NO CLASS - M.L. King Jr. Day		GPS
	18	minerals	2.0–2.6	
	20	igneous rocks	3.0–3.4, 4.0–4.1	
3	23	igneous rocks	4.2, 4.4–4.7	Minerals
	25	volcanoes	4.3, 4.8	
	27	weathering	5.1	
4	30	weathering		Igneous Rocks
	FEB 1	EXAM 1		
	3	sedimentary rocks	5.0, 5.2–5.5	
5	6	sedimentary rocks	5.6	Sed./Met. Rocks
	8	metamorphic rocks	6.0–6.4, 6.8	
	10	geologic time	6.7, 6.10, 7.1–7.5	
6	13	geologic time	7.6, 7.7, 7.9	Lab Exam

	15	geologic time		
	17	deformation	11.0–11.4	
7	20	structures	11.5–11.7	Geologic Time
	22	earthquakes	11.8, 11.9	
	24	earthquakes	8.2, 8.4	
8	27	Earth interior and geophysics	13.1–13.3	Topo. Maps
	MAR 1	EXAM 2		
	3	plate tectonics	12.0, 12.1	
9	6	NO CLASS - Spring Break		No Lab
	8	NO CLASS - Spring Break		
	10	NO CLASS - Spring Break		
10	13	plate tectonics	12.3	Geo. Structure
	15	plate tectonics	12.4, 12.5	
	17	mountain building	12.6–12.8	
11	20	mass wasting	13.5, 15.0-15.3	Seismology
	21	mass wasting	15.4, 15.5	
	23	streams	16.0–16.8	
12	27	streams	16.9–16.12	Flood Hazards/ Lab Exam
	20	ground water	17.0–17.3	
	31	ground water	17.4–17.5	
13	APR 3	EXAM 3		Ground Water
	5	glaciers and glaciation	18.0–18.3	
	7	glaciers and glaciation	18.4–18.8	
14	10	glaciers and glaciation	18.9–18.10	DRASTIC
	12	glaciers and glaciation	18.11	
	14	winds and deserts	20.0, 20.1, 20.3	
15	17	winds and deserts	20.2, 20.4, 20.5	BG Geology
	19	oceans and coastal features	19.0–19.3	
	21	oceans and coastal features	19.4–19.7	
16	24	geology of Ohio		Lab Exam
	26	resources		
	28	global change		
EXAM 4: Wednesday, May 3, 8:30-10:30 AM				

Additional Documentation

Geology 104: Earth Environments
Spring Semester, 2006

Lectures: Overman Hall 095
Mo We Fr, 9:30-10:20

Laboratory: Overman Hall 096 Section 14091, We 4:30-6:20
Section 15666, Th 12:30-2:20

Instructor: Dr. Jeffrey Snyder
Office: 181 Overman Hall
Phone: 372-0533
E-mail: jasnyd@bgsu.edu
Web Page: <http://geology.bgsu.edu/Snyder/>
Office Hours: Mo We Fr, 10:30-11:20 (or by appointment)

Textbook: Lecture—Smith, G. A. & Pun, A. 2006. *How Does Earth Work?*
Prentice Hall.
Lab manual—Individual labs must be printed from MyBGSU.

Electronic Course Resources: Notes, assignments, and other information for the lecture and lab will be provided on the course site on MyBGSU.

Tentative Schedule:

<u>week</u>	<u>date</u>	<u>lecture topic</u>	<u>reading (text)</u>	
1	JAN 9	introduction	1.0–1.3	No
Lab				
	11	Earth systems	1.4, 1.6	
	13	Earth interior	1.5, 8.1	
2	16	NO CLASS - M.L. King Jr. Day		
	GPS			
	18	minerals	2.0–2.6	
	20	igneous rocks	3.0–3.4, 4.0–4.1	
3	23	igneous rocks	4.2, 4.4–4.7	
	Minerals			
	25	volcanoes	4.3, 4.8	
	27	weathering	5.1	
4	30	weathering		
	Igneous Rocks			
	FEB 1	EXAM 1		
	3	sedimentary rocks	5.0, 5.2–5.5	

5	Sed./Met. Rocks	6	sedimentary rocks	5.6	
		8	metamorphic rocks	6.0–6.4, 6.8	
		10	geologic time	6.7, 6.10, 7.1–7.5	
6 Exam		13	geologic time	7.6, 7.7, 7.9	Lab
		15	geologic time		
		17	deformation	11.0–11.4	
7	Geologic Time	20	structures	11.5–11.7	
		22	earthquakes	11.8, 11.9	
		24	earthquakes	8.2, 8.4	
8	Topo. Maps MAR	27	Earth interior and geophysics	13.1–13.3	
		1	EXAM 2		
		3	plate tectonics	12.0, 12.1	
9 Lab		6	NO CLASS - Spring Break		No
		8	NO CLASS - Spring Break		
		10	NO CLASS - Spring Break		
10	Geo. Structure	13	plate tectonics	12.3	
		15	plate tectonics	12.4, 12.5	
		17	mountain building	12.6–12.8	
11	Seismology	20	mass wasting	13.5, 15.0-15.3	
		21	mass wasting	15.4, 15.5	
		23	streams	16.0–16.8	
12 Exam	Flood Hazards/	27	streams	16.9–16.12	
		20	ground water	17.0–17.3	Lab
		31	ground water	17.4–17.5	
13	APR Ground Water	3	EXAM 3		
		5	glaciers and glaciation	18.0–18.3	
		7	glaciers and glaciation	18.4–18.8	
14	DRASTIC	10	glaciers and glaciation	18.9–18.10	
		12	glaciers and glaciation	18.11	

	14	winds and deserts	20.0, 20.1, 20.3	
15 Geology	17	winds and deserts	20.2, 20.4, 20.5	BG
	19	oceans and coastal features	19.0–19.3	
	21	oceans and coastal features	19.4–19.7	
16 Exam	24	geology of Ohio		Lab
	26	resources		
	28	global change		

EXAM 4: Wednesday, May 3, 8:30-10:30 AM

Geology 104: Earth Environments Spring Semester, 2006

Course Goals: A General Education Natural Science course is intended to provide an understanding of science. This knowledge is essential for any person who strives to be an informed citizen. Knowledge of basic science is important for rationally analyzing many current political issues, such as the environment, human health, and energy and other resources. The world in which you function continues to become more science and technology based. The goal of the General Education Natural Science requirement is to help you cope with this ever-growing complexity.

Learning Objectives

- To understand science in general and its importance to society
- To develop critical thinking and problem-solving skills
- To gain a better understanding and appreciation for Earth environments and processes and their relevance to society

Computerized Notes: Text and figures presented in class by computer projection are available on the course site on MyBGSU. I suggest that you print or copy the notes in advance and bring them to lecture. By doing this, you will be more able to listen to lectures and to take additional notes. I have created these notes prior to the start of the course. Thus, there may be occasions when additions, revisions, or order changes will be required. These notes are not complete, and they should not be used as a substitute for class attendance.

Exams: There will be three exams during the semester and one exam during finals week. Exams will cover material both in the lectures and in the assigned readings. The format of the exams will be approximately 50% multiple-choice questions and 50% short-answer and essay questions. The exams will be non-cumulative, although certain topics will build on material from previous exams. In addition, there will be a

separate short exam with comprehensive questions administered with Exam 4 during the final exam period. Make-up exams will be given only with a verified, reasonable excuse. If you miss an exam, you must notify me within twenty-four hours, or no make-up exam will be allowed. All make-up exams will be essay questions.

Quizzes on Readings: Approximately 12 times during the semester, there will be unannounced short quizzes on the assigned textbook reading for the day. Your two lowest scores (or missed quizzes) will be dropped. No make-up reading quizzes will be allowed. Any required modifications to the readings schedule will be announced in class and by e-mail.

Laboratory: A separate syllabus will be distributed for the laboratory. Attendance in the laboratory is mandatory. You can not receive a passing grade in the class without passing the laboratory.

Grading:	4 exams	17% (each)
	readings quizzes	5% (total)
	laboratory grade	25%
	comprehensive questions (during final)	2%

I have a policy not to discuss or report grades by e-mail. For such matters, you are welcome to visit my office or ask before or after class.

Student Conduct: Students and faculty in this course are subject to the Code of Academic Conduct which can be found in the BGSU Student Handbook.

OBR Use	Action
Approved	
Additional Information Requested	
Rejected	
Date	