

Course Material Submission Form OAN Match Definition Form

Today's Date: February 8, 2008

Use this table to specify institutional data	
College/University:	Cleveland State University
Name and title of individual submitting on behalf of the college/university	
Name:	Jae-won Lee
Title:	Director of Curricular Affairs
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Indicate the reason for this submission:

New Course Match
 Course Renumbering Only (do not use for calendar changes)
 Revised Materials - Faculty review panel requested clarification
 Revised Materials - Institution submitting additional information
 Revised Materials - Course content revised by institution, including situations of both content and credit hour change
 Revised Materials - Other

Describe specific revisions being made for "Revised Materials" submissions:

Institutional Notes to Faculty Panel (the institution is encouraged to add any additional clarifications for this submission):

An incorrect course was submitted previously.

Table 1 – Use this table to describe the course match for which materials are being submitted for the first time or revised.

Proposed effective year and term of match (Final effective date will depend on actual approval of match by faculty panel. Effective Year and Term is the first term in which students taking the course will receive matching credit.)

Semester institutions complete this row:
 2008 Academic Year Summer Autumn Spring

Quarter institutions complete this row:
 20 Academic Year Summer Autumn Winter Spring

Ohio Articulation	OSC 012
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Number (OAN) (Use a separate form for each OAN.):	
Number of courses in the match:	2 (up to 10)
Current status of match:	<input type="checkbox"/> First time submission
	<input type="checkbox"/> Approved <input type="checkbox"/> Submitted <input checked="" type="checkbox"/> Disapproved <input type="checkbox"/> Error <input type="checkbox"/> Resubmitted <input type="checkbox"/> Pending <input type="checkbox"/> Error with enrollment <input type="checkbox"/> Not submitted
Course or Courses being matched to or currently matched to the OAN listed above. (Course Numbers must be exactly what will appear on a student's transcript.):	Course Number
	1. GEO 150
	2. GEO 151
	3.
	4.
	5.
	6.
	7.
	8.
	9.
10.	

Table 2 - Use this table to submit course materials for the first time or to revise previously submitted course materials. You must submit each course in a separate form, repeating the match definition information in Table 1 above for each form submitted.

Course Number. (Course Numbers must be exactly what will appear on a student's transcript.):	GEO 150	Course Title:	Geological History of the Earth		
Hours (be sure that the hours for this course matches the hours in the OAN.)					
<input checked="" type="checkbox"/> Semester Hours 3			<input type="checkbox"/> Quarter Hours		
Total Credit Hours	3	Lecture Hours	3	Laboratory Hours (if applicable)	0
Course Placement in Major:			<input type="checkbox"/> Major Requirement <input checked="" type="checkbox"/> Major Elective <input type="checkbox"/> Major Not Offered <input type="checkbox"/> Other		
Pre-Requisite Course work (if applicable) (Be sure this is consistent with the OAN definition):					
Catalog/Course Description: GEO 150 Geological History of the Earth (3-0-3). Introduction to the history of the earth. Examination of the biochemical and geological evidence for the origin of life and the mechanisms and patterns of evolution, evaluating the most significant events in the evolutionary history of plants and animals through geological time. Introduction to the structure and history of continents and ocean basins, concentrating on the events through geological time that created the North American continent. <i>Natural Science.</i>					
Texts/Outside Readings/Ancillary Materials (Be sure that the text meets performance					

expectations):

Historical Geology, 5 edition (2007), by R. Wicander & J. S. Monroe. Brooks Cole.

Course Objectives and/or Plan of Work:

(Provide a clear indication of how the course objectives align with the matched OAN's learning outcomes. This will facilitate the faculty panel course review process.)

The course begins with the theories about the origin and the evolution of the planet Earth. The phenomenon of Iron Catastrophe and transformation of a passive to an active and dynamic planet will be discussed in length. The physical history of the planet Earth will be discussed with the interpretation of rocks, fossils and tectonism.

The evolution of life, fossilization and fossil record is studied from the Precambrian eon to present using sedimentary rocks. This includes relative and radiometric study of rocks to make geological maps and geological time scale. The geological history of North America and the rest of the world will be covered using a series geological principles such as superposition, uniformity, horizontality and others.

The lab exercises (GEO 151) include work on relative and radiometric dating, identification of sedimentary, igneous and metamorphic rocks. The use of topographic and geological maps and the interpretation of geological features is a big part of the lab exercises.

Description of Assessment and/or Evaluation of Student Learning (The assessment plan needs to be appropriate for the expected rigor of the course) :

Four exams, each of which contributes 20% of the course grade, and 10 in-class quizzes which, collectively, contribute 20% of the course grade.

Master Syllabi and Working Syllabi (if both are used):

Cleveland State University
GEO 150 [Geological History of the Earth]
Spring, 2007

Instructor: Dr. Michael Gates, SR G54, phone 216.687.3917,
Email: m.gates@csuohio.edu

(any emails that you send to me should start with the course number or name in the subject line and should include your name or student ID in the text)

Office hours: immediately after class or M - Th, 1:00 - 2:00 P.M.

Lectures: MWF 9:45 - 10:50 A.M. Note that this is a 4-credit course and that lectures therefore are 65 minutes long.

REQUIRED Textbook: *Historical Geology*, 5 edition (2007), by R. Wicander & J.

S. Monroe

Make-up exams will not be given, and there will be no extra credit assignments.

[Grades will be redistributed across the entire course if an exam is missed for a valid reason (usually, a certified medical excuse).]

Each of the four exams will consist of 50 multiple-choice questions. The final exam is simply the fourth exam; note that it begins at 8:30 A.M.

The exams will be worth a total of 200 points.

An additional 50 points (20% of the course grade) will be based on ten (10) in-class quizzes, worth 5 points each. These will be unannounced and random, and they will be based on both lecture and textbook material that already has been covered.

Outcomes and Objectives:

The course begins with the theories about the origin and the evolution of the planet Earth. The phenomenon of Iron Catstrophe and transformation of a passive to an active and dynamic planet will be discussed in length. The physical history of the planet Earth will be discussed with the interpretation of rocks, fossils and tectonism.

The evolution of life, fossilization and fossil record is studied from the Precambrian eon to present using sedimentary rocks. This includes relative and radiometric study of rocks to make geological maps and geological time scale. The geological history of North America and the rest of the world will be covered using a series geological principles such as superposition, uniformity, horizontaligy and others.

The lab exercises (GEO 151) include work on relative and radiometric dating, identification of sedimentary, igneous and metamorphic rocks. The use of topographic and geological maps and the interpretation of geological features is a big part of the lab exercises.

Schedule of Classes and Readings

Date	Topic	Chapter
JAN		
17	The Dynamic and Evolving Earth	1
19	The Dynamic and Evolving Earth	1
22	Minerals & Rocks	2
24	Minerals & Rocks	2
26	Plate Tectonics	3
29	Plate Tectonics	3
31	Geologic Time	4
FEB		
02	February Geologic Time	4
05	The Geologic Record: Fossils	5
07	The Geologic Record: Stratigraphy	5

09	EXAM 1 (Chapters 1- 5): 20%	
12	Sedimentary Rocks	6
14	Sedimentary Rock: Fossils	6
16	Sedimentary Rock: Depositional Environments	6
19	NO CLASS – President’s Day	
21	Evolution: Natural Selection	7
23	Evolution: Inheritance	7
26	Evolution: Speciation and Classification	7
28	Precambrian Era: Archean Eon	8
MAR		
02	Precambrian Era: Origin of Life	8
05	Precambrian Era: Proterozoic Eon	9
07	Precambrian Era: Origin of eukaryotic life	9
09	EXAM 2 (Chapters 6 - 9): 20%	
12-16	NO CLASSES – Spring Recess	
19	Early Paleozoic Era	10
21	Early Paleozoic Era	10
23	Late Paleozoic Era	11
26	Late Paleozoic Era	11
28	Paleozoic Life: Invertebrates	12
30	Paleozoic Life: Invertebrates (Withdrawal Day)	12
APR		
02	April Paleozoic Life: Vertebrates	13
04	Paleozoic Life: Vertebrates	13
06	Paleozoic Life: Plants	13
09	EXAM 3 (Chapters 10 - 13): 20%	
11	Mesozoic Era: Geology	14
13	Mesozoic Era: Geology	14
16	Mesozoic Life	15
18	Mesozoic Life: Dinosaurs	15
20	Mesozoic Life: Dinosaurs and Mammals	15
23	Cenozoic Era: Geology	16
25	Cenozoic Era: Geology	16, 17
27	Cenozoic Era: Pleistocene Glaciations	17
30	Cenozoic Life	18
MAY		
02	Cenozoic Life: Mammals	18
04	Cenozoic Life: Primates	19
09	8:30 A.M. EXAM 4 (Chapters 14 - 18): 20%	
Additional Documentation:		

OBR Use

Approved-Effective Date	
Pending (i.e. Additional Information Requested)	

Disapproved	
Today's Date	