Request for Courses in the Core Curriculum

Ori	ginating Department or Colle	ge: <u>Department of Biology</u>	and Chemistr	y, College of Arts and Sciences		
Per	rson Making Request:	Marvin E. Bennett				
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Со	urse Number and Title: GEO	L 1103 Physical Geology Lab	2			
Ple	ase attach in separate docur Completed Catalog Add _X Syllabus					
	t the student learning outcor ult of taking this course. See	-		udents will know and/or be able to do as a atements.)		
St	udent Learning Objectives: \	Jpon successful completion	of this course	, students will be able to:		
1.	Use critical thinking and the	scientific method to examin	e questions re	lating to geology.		
2.	Collaborate effectively on a r	esearch project.				
3.	Communicate scientific infor	mation both verbally and th	rough written	reports.		
4. I	Review and demonstrate a kr Define and discuss geological Develop the ability to classify	owledge of fundamental ea processes that alter the ear	rth science pri	•		
Co	re-Curriculum Learning Outc	omes:				
1.	_	eative thinking, innovation	inquiry and a	nalysis, evaluation, and synthesis of		
information. (SLOs: 1, 5, 6) 2. Communication Skills: Students will demonstrate their ability to communicate effectively by using written						
	communication. (SLOs: 3, 5)					
3.	3. Empirical and Quantitative Skills: includes the manipulation and analysis of numerical data or observable facts resulting in informed conclusions. (SLOs: 1,2)					
4.	Teamwork: includes the abi		others to supp	port a shared goal. (SLOs: 2)		
Coi	mponent Area for which the	course is being proposed (c	heck one):			
	Communication		_ American Hi	story		
	Mathematics			/Political Science		
	Language, Philosop	hy, & Culture	_ Social & Beh	avioral Science		
	Creative Arts		_ Component	Area Option		
	X Life & Physical Scie	nces				
			pended chart	for competencies that are required and		
opi	tional in each component are	<u>-</u>	T			
	X Critical Thinking		Teamwork	un a maileilite.		
	_X Communication S		_ Personal Res			
	_X_Written Cor		_ Social Respo	nsibility		
	Oral Comm Visual Com					
	visual com _X_ Empirical & Quanti					
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Because we will be assessing student learning outcomes across multiple core courses, assessment assigned in your course must include assessment of the core competencies. For each competency checked above, indicate the specific course assignment(s) which, when completed by students, will provide evidence of the competency. Provide detailed information, such as copies of the paper or project assignment, copies of individual test items, etc. A single assignment may be used to provide data for multiple competencies.

Critical Thinking:

During the "Plate Tectonics" lab, students will need to use their critical thinking skills to calculate the rates of lithosphere plate movement and direction to predict both the interaction of plates and the geological features the occur at various plate boundaries. A critical thinking rubric with domains for creative thinking, depth of inquiry, evaluation of importance and synthesis of information can be scored by the instructor from the lab report, or the lab report can be up loaded for evaluation by the Core Curriculum Assessment Committee.

Communication Skills:

Upon the completion of the "Plate Tectonics" lab each student will write a 3-4 page lab report addressing critical thinking questions concerning their calculations and geological extrapolations. The instructor can score the written lab report for organization, focus, style and grammar using a modified WIN rubric, or the report can be up loaded for evaluation by the Core Curriculum Assessment Committee.

Empirical & Quantitative Skills:

During the "Plate Tectonics" lab students will have to use the absolute motion of one plate to calculate the relative motion of interacting plates in order predict how the plates will interact at the boundaries and the geological features that will occur. The instructor can assess the logical reasoning behind the calculations and extrapolations, or the written lab report can be up loaded for evaluation by the Core Curriculum Assessment Committee.

Teamwork: N/A			
Personal Responsibility: N/A			
Social Responsibility: N/A			
Will the syllabus vary across multiple sections of the course? If yes, list the assignments that will be constant across the section	Yes s:	_X_ No	
Inclusion in the core is contingent upon the course being offered a	and taught at	least once every other academ	ic year.

Courses will be reviewed for renewal every five (5) years.

The department understands that instructors will be expected to provide student work and to participate in university-wide assessments of student work. This could include, but may not be limited to, designing instruments such as rubrics, and scoring work by students in this or other courses. In addition, instructors of core courses may be asked to include brief assessment activities in their courses.

Reviewed and approved by the Core Curriculum Committee on February 15, 2013.