Program: Geoscience

Academic Program Assessment Plan (2017-2018)

1. Please review last year's assessment results (2016-2017) as well as the Academic Program Assessment Report with the faculty in your program. How does your program plan to take these results into consideration in future programmatic planning?

   The Geoscience Academic Program Assessment Report dated 7 July 2017 was reviewed by the Geoscience Faculty. We will continue to follow our 2016-2017 assessment plan and matrix for which Programmatic Learning Outcomes are to be assessed in courses that Geoscience students are required or are likely to take.

2. Please review your program's Learning Outcomes. Do any of them need to be updated or clarified?

   Not at this time. We will continue discussion about connections between the learning outcomes and the core course The Soil Environment.

   a. Please provide brief indications of the kinds of assessment (e.g. course exams, term papers, course projects, senior seminar, senior interview, etc.) that might be used to assess each outcome. (The purpose here is to see that your program has considered ways it might measure each outcome.)

Learning Outcome	How will it be measured?
1	embedded assessment with in supporting courses
2	project presentations and laboratory reports
3	course project and embedded assessment on final exam
4	embedded assessment on quizzes and final exam
5	term paper or exam question
6	lab exercise and exam question(s)
7	embedded assessment on final exam
8	embedded assessment on final exam
9	laboratory reports or final project presentations

   b. Please compare your Learning Outcomes to the University's main learning objectives: interdisciplinary, problem-focused education; critical thinking; diversity; environmental sustainability; and engaged citizenship. (These objectives were identified in the MLLO Project, which may be found here: http://www.uwgb.edu/MLLO/.) Which programmatic outcomes match university mission outcomes?

Select Mission Objectives	Geoscience Learning Outcomes
problem-focused	2,9
interdisciplinary	3
critical thinking	6,9
environmental sustainability	3,7,8

3. Which outcome will you assess this year (2017-2018)?

   This year, we will assess Learning Outcomes 5, 8, and 9.

4. Which technique will you use to assess this outcome?

   Outcome 5: Embedded questions on quiz and/or exams.

   Outcome 8: Embedded questions on exams.

   Outcome 9: Final Course Project and Presentation. Students will analyze materials in the laboratory, interpret their results, place them into a regional context using available literature, and present their findings in a course presentation (20-25 minutes; PowerPoint).

5. Which course or group of students will you assess on the outcome chosen above and when?

   Outcome 5 will be assessed in Physical Geology (Geoscience 202) during Spring 2018.

   Outcome 8 will be assessed in Ore Deposits (Geoscience 450) during Spring 2018.

   Outcome 9 will be assessed in Sedimentology & Stratigraphy (Geoscience 402) during Fall 2017.

Geoscience Student Learning Outcomes						Geoscience Major				
1	2	3	4	5	6	7	8	9	SUPPORTING and CORE COURSES:	
			x	x	x		x		GEOSCI 202	Physical Geology
x	x		x						GEOSCI 203/204	Earth System History
	x					x			ENV SCI 320	The Soil Environment
						x			ENV SCI 330	Hydrology
	x								GEOSCI 340	Introduction to Mineralogy & Petrology
						x		x	GEOSCI 432	Hydrogeology
						UPPER-LEVEL ELECTIVES (12 credits):				
			x						ENV SCI 421	Geoscience Field Trip
									ENV SCI 425	Global Climate Change
								x	GEOSCI 301	Introduction to Geoscience Field Methods
									GEOSCI 350	Structural Geology and Geodynamics
				x					GEOSCI 402	Sedimentology & Stratigraphy
		x		x			x		GEOSCI 450	Ore Deposits
				x					GEOSCI 470	Quaternary Geology
									GEOSCI 492	Special Topics in Earth Science