

			Section Type:	Assessment Method Used for Course Learning Outcomes			
Quarter Assessment Conducted:	Winter	1	DC = Dual Credit	Essay	1	Documented Observation of Studen	nt 7
Year Assessment Conducted:	2019		OL = online	Objective Exam	2	Individual Oral Presentation	8
Course Prefix:	GS		HY = hybrid	Research Paper	3	Group Presentation	9
Course Number:	106		OG = on-around	Individual Assignment	4	Special Project	10
Section Type:	Z1		Z = Zoom	Group Assignment	5	Other	11
Instructor Conducting Assessment:	Lara, Genifer			Portfolio of Work	6		
# Students Satisfactorily Completing Course:	23						
Intended Course Learning Outcomes	Assessment Method Used	Student Achievement of Intended Mapped to Intended Program/Discipline Student Achievement Course Learning Outcomes: Discipline Learning Outcomes:		evement of Intended Program/ earning Outcomes:			
Upon satisfactory completion of this course, students should be able to:			# Completing Students Performing at Each Level:			<i># Completing Students Performing at Each Level:</i>	
Use an understanding of the rock cycle, plate tectonics and	2	Advanced	5		Advanced		
surface processes to explain how the Earth's surface wears away and is renewed	(Final Exam)	Competent	7		Competent		
		Developing	7		Developing		
		Emerging	4		Emerging		
Use an understanding of geologic dating methods and the	3	Advanced	5		Advanced		
interpretation of geologic deposits to explain how geologists reconstruct the history of the Earth	(Geologic Time Term Paper)	Competent	12		Competent		
		Developing	5	1	Developing		
		Emerging	1	1	Emerging		
Access earth science information from a variety of sources,	4	Advanced	3		Advanced		
evaluate the quality of this information, and compare this information with current models of geologic processes identifying areas of congruence and discrepancy	(Marcus Landslide Analysis)	Competent	5	1	Competent		
		Developing	7	1	Developing		
		Emerging	8	1	Emerging		
Make field and laboratory based observations and measurements	4	Advanced	nced 4 DLO 1. Gather, comprehend, and com	DLO 1. Gather, comprehend, and communicate	Advanced	4	
of earth materials and landscapes, use scientific reasoning to interpret these observations and measurements, and compare the results with current models of geologic processes identifying areas of congruence and discrepancy	(Igneous Rock Lab/ Bowen's Reaction Series)	Competent	8	scientific and technical information in order to	Competent	8	
		Developing	7	explore ideas, models, and solutions, and generate further questions	Developing	7	
		Emerging			Emerging		
			4			4	
Use scientifically valid modes of inquiry, individually and collaboratively, to critically evaluate the hazards and risks posed by geologic processes both to themselves and society as a whole, evaluate the efficacy of possible ethically robust responses to these risks, and effectively communicate the results of this analysis to their peers	4 (Earthquake Discussion Board)	Advanced	2	DLO 2. Apply scientific and technical modes of inquiry, individually, and collaboratively, to critically evaluate existing or alternative	Advanced	2	
		Competent	7		Competent	7	
		Developing	13		Developing	13	
		Emerging	1	based decisions in an ethical manner	Emerging	1	
Assess the contributions of geology to our evolving understanding of global change and sustainability while placing the development of geology in its historical and cultural context Dis	4	Advanced		DLO 3. Assess the strengths and weaknesses o	f Advanced		
	(Plate Tectonics Discussion Board)	Competent	13	scientific studies and critically examine the	Competent	13	
		Developing	7	influence of scientific and technical knowledge on human society and the environment	Developing	7	
		Emerging			Emerging		

Learning Outcome Assessment Narrative and Analysis

1. What did you discover about student performance based on the evidence you identified and used above? Student performance against course and discipline le outcomes did not directly correspond with the grades earned overall in the course. This is making me wonder if they should. There was a extra credit available in course...and discussion boards, which most students participated in and did quite well, make up a fairly significant part of the grade. What is perhaps more intere is that direct comparison of student conceptual understanding between weekly guizzes and performance on the final exam showed improvement from the start of course to the end on two of the topics called out by the Course Learning Outcomes -- calculating the Earth's age and Location of the Tectonic Plates.

2. Future Planning: What changes or high impact practices do you plan to implement to your course and/or teaching methods based on your response to question #1 above? There is a Geoscience Concpet Inventory that has been developed to gague student conceptual growth as a pre-test and post-test. I expect this must be purchased, but I would be very interested in exploring this as an assessment tool. It may allow me at the start of the course to rapidly identify areas that the class has conceptual misunderstandings in, and then spend more time on or develop activities that explore concepts differently in these areas than my current approach.

3. (To be answered after having implemented these changes the next time the course is taught by you): After having implemented the above changes in your course, what changes did you observe in student achievement of course learning outcomes? Was the change successful? How will you adjust your teaching methods or presentation moving forward?

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