

# Course Assessment– Part B: Your Results & Analysis

#169

Your Email \*

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G 201 – Physical Geology – Gretchen Gebhardt – Fall – 2016

## Part B: Your Results

### Directions

1. Report the outcome achievement data gathered via the assignments, tests, etc. you identified for each outcome (question 3) of your Part A. \*

Note: all data is out of 14 total students.

Outcome #1:

When examining the grades for the hazards portion of the course project the following grade distribution was found:

90% 8

80% 0

70% 5

less than 60% 1

not attempted 0

Outcome #2:

Average data for labs and quizzes:

90% 4.3

80% 3.7

70% 0.3

less than 60% 5.7

not attempted 0

Average data for three questions on final exam:

90% 2.0

80% 6.0

70% 1.7

less than 60% 3.3

not attempted 1.5

Outcome #3

Average data for three questions on final exam:

90% 0.3

80% 1.7

70% 2.3

less than 60% 9.3

not attempted 1.0

## Outcome #1

\*

Use scientifically valid modes of inquiry, individually and collaboratively, to critically evaluate the hazards and risks posed by volcanoes and earthquakes both to themselves and society as a whole, evaluate the efficacy of possible ethically robust responses to these hazards and risks, and effectively communicate the results of this analysis to their peers.

% of students who successfully achieved the outcome (C or above) \*

93%

## Outcome #2 \*

Use an understanding of rock and mineral characterization and classification to infer the geologic processes that formed individual rock and mineral specimens.

% of students who successfully achieved the

65%

outcome (C or above) \*

Outcome #3 \*

Analyze the development, scope, and limitations of plate tectonics and utilize plate tectonics to explain the Earth's earthquake and volcanic activity as well as the occurrence of common rocks, minerals, and economic deposits.

% of students who successfully achieved the outcome (C or above) \* 31%

## ANALYSIS

### 3. What contributed to student success and/or lack of success? \*

I think students did well on the first outcome because it was related to a project where they could report on research they did, essentially looking the answers up. The 2nd and 3rd outcomes I chose do not appear successful, I think this is due to the chosen assessments – questions on a final exam. This means students had to recall the information from memory and not research the answers. I feel as though this is a more accurate representation of what the students actually know at the end of the course. I think re-phrasing the questions in the future may help students understand the questions being asked. I also want to note that this final exam had to take place online due to the inclement weather causing campus to close over finals week. I think the disruption over the last few weeks of the term due to the weather could have impacted student concentration and performance.

4. Helping students to realistically self-assess and reflect on their understanding and progress encourages students to take responsibility for their own learning. Consider comparing your students' perception of their end-of-term understanding/mastery of the three outcomes (found in student evaluations) to your assessment (above) of student achievement of the three outcomes. \*

Outcome #1:  
Student perception (91%) and my evaluation (93%) match!

Outcome #2:  
Student perception (77%) and my evaluation (65%) were close, I think the difference may reflect the chosen assessments on my part.

Outcome #3:  
Student perception (83%) and my evaluation (31%) were way off! I think this may reflect the chosen assessments on my part.

5. Did student achievement of outcomes meet your expectations for successfully teaching to each outcome (question 4 from Part A) \*

No! I am very disappointed in these outcomes, and plan to make some changes when I teach the course again.

6. Based on your analysis in the questions above, what course adjustments are warranted (curricular, pedagogical, student instruction, etc.)? \*

I plan to change the phrasing of the questions on the final exam as well as how my quizzes are formatted throughout the term. I emphasized the information from these outcomes in lecture, but I am not sure that translated through the weekly quizzes.

7. What resources would be required to implement your recommended course adjustments (materials, training, equipment, etc.)? What Budget implications result? \*

I don't foresee any budgetary needs with this result.

8. Were your assessment methods accurate indicators of student learning? Why or why not? Any additional comments? \*

I feel as though using test questions is a good way to determine what students have learned, although I am not sure my testing through the term emphasized the material enough.

(OPTIONAL) Reflect on any adjustments you made from the last assessment of this course and their effectiveness in student achievement of outcomes?

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