



Human Biology | 2013-2014 Assessment Report

Please answer the following two questions based on the data you collected as part of your Programmatic Assessment Plan.

1. Please give a brief overview of the data you collected. This can be in any form you feel is appropriate, such as a table, a short narrative of results, statistical analysis, highlighting findings that were of particular interest, etc. In short, it doesn't matter how you submit your findings.

Data to assess outcome #11, "Analyze and interpret scientific information" was obtained from Medical Nutrition Therapy II, NUT SCI 486, by Sara Schmitz. The grades were collected from an assignment that required students to:

- Find a peer reviewed research article related to medical nutrition therapy
- Read, interpret, and analyze the study design, methods, and results
- Write a one page abstract detailing the study description and results, discussing the strengths and weakness of the study design, and the application to patient care and practice

This was the third of three abstracts that the students wrote during the course. Students received detailed feedback on abstracts 1 and 2 to help guide them towards developing proficiency in these skill-sets.

Achievement Level	Number of Students	Percentage of Students
Excellent	6	21
Very Good	7	25
Good	5	18
Above Average	6	21
Average	3	11
Below Average	0	0
Poor	1	4
Unacceptable	0	0

Data to assess outcomes 10: Know and execute state-of-the-art laboratory techniques and 11: Analyze and interpret scientific information were obtained from Cell Biology Lab, BIOL 308, by Warren Johnson. Students were assessed for their ability to perform and interpret the data for 1) colorimetric quantitative assays for protein, DNA, and RNA, 2) SDS-PAGE of protein samples, 3) Agarose Gel electrophoresis of nucleic acids, 4) stain and analyze blood cells, 5) prepare and analyze spinach chloroplasts, 6) prepare and analyze nucleosomes, and 7) perform a Western blot analysis of a protein sample. All 18 students in the course accomplished all seven of these at grade level A.

2. How will you use what you've learned from the data that was collected? Some examples are: a change in assessment plan for the following year because you want to drill down deeper to find more or better information, faculty will discuss the data to decide what to do with it, curricular changes, faculty

development, etc.

Data will be further in the fall semester.

Human Biology Assessment Plan

1. Which outcome will you assess?

10. Know and execute state-of-the-art laboratory techniques

11. Analyze and interpret scientific information

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

We will use an embedded assessment.

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

Medical Nutrition Therapy II, NUT SCI 486

Cell Biology Lab, BIOL 308