

# Bakersfield College GE Assessment

Year:2012

Course/ Department: Earth Science: ERS B10

GE SLO:

## B. Physical Universe and Life Forms

(6 units)

Courses in the natural sciences are those that examine the physical universe, its life forms, and its natural phenomena. Further, courses in the natural sciences help the student develop an appreciation and understanding of the scientific method. Courses in the natural sciences, math and logic help students apply logical, qualitative and quantitative reasoning in solving problems or analyzing arguments.

Students take 3 units in Natural Sciences and 3 units in Math and Logic. You only need to present on the outcome that your course(s) meet.

B.1 Natural Sciences

- 1. Demonstrate a knowledge of natural phenomena and recognize the processes that explain them.**
- 2. Demonstrate a knowledge of scientific methodologies when solving a problem.**

B.2. Mathematics and Logic (Analytical Thinking)

- 1. Apply formal systems of reasoning in solving problems or analyzing arguments.**

### *Assessment Tool/Process*

- How was the GE SLO assessed? (exam, paper, presentation, demonstration, etc.)  
Please provide a copy of the assessment tool or directions to the students and of the rubric used to assess the artifact, if applicable.

*Formal and informal assessment: clickers, exams (pre,post), PpT slide discussions, e-preps with diagrams, take home quizzes*

- Did the assessment tool(s) generate student artifacts that assessed the GE SLO?

Yes.

- Did the faculty develop a reliable method to rank the student artifacts?

Yes

### *Results/ Department Decisions*

- What were the results of the assessment?
  - SLO#1: 3 questions. 88%, 81%, 77% correct
  - SLO#2: 2 questions, 54%, 92% correct
  - SLO#3 2 Questions, 93%, 94% correct
- Did the faculty discuss the results, and what conclusion did they draw?

Yes- *formally and informally*

*Have determined:*

  1. *The strategies are working*
  2. *Instructors will use the same pre/post and statistical analysis*
  3. *Pre/post will not just be multiple choice*
- Did enough students pass the assessment to validate the course as meeting the GE Outcome? (As experts in the field, the department will determine the acceptable number of passing grades. The Assessment Committee may ask for additional information if the passing rate seems low.)

*Yes—used only student in both pre and post*

*A great example of a GE course*

*Assessment Committee Responses/Concerns: None*

### **Recommendation of the committee:**

Excellent process. Would be useful to use as an example to other departments