

Assessment Report Worksheet #3

General Education Program

Unit/Office/Program (3-1)

() Formative Assessment (3-3)

(X) Summative Assessment (3-4)

Fall 2009 – Spring 2010

Assessment Period Covered (3-2)

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Submitted by & Date Submitted (3-5)

Curriculum Committee 24Aug.2010

Endorsed by: (3-5a)

Evaluation Question (Use a different form for each evaluation question)(3-6):

Can students demonstrate understanding and apply scientific concepts and principles of a field of science and apply scientific *methods* to the inquiry process?

First Means of Assessment for Evaluation Question Identified Above (from your approved assessment plan 3-7):

1a. Means of Unit Assessment & Criteria for Success (3-8):

Common lab assignment – information collected was to establish baseline data

1b. Summary of Assessment Data Collected (3-9):

- Overall average points on lab reports was 14.95 out of 32 possible points.
- Scientific Procedures & Reasoning = 3.89 out of 8 possible points.
- Strategies = 4.05 out of 8 possible points.
- Scientific communication using data = 3.38 out of 8 possible points
- Scientific concepts and related content = 3.63 out of 8 possible points

1c: Use of Results to Improve Program/Unit Impact/Services[Closing the loop] (3-10):

- Increase the students' ability to demonstrate understanding and apply scientific concepts and principles of a field of science and apply scientific methods to the inquiry process by increasing the overall rating from 14.95 to at least 16.
 - Have students write more lab reports than the reported 1 – 3.
 - Collaborate with Lang/Lit, and English divisions to help prepare students to write scientific papers.
 - Provide science faculty with ways to help students write better lab reports.

Second Means of Assessment for Evaluation Question Identified Above (from your approved assessment plan) (3-11):

2a. Means of Unit Assessment & Criteria for Success:

Students were asked, "How confident are you in writing this lab report?"

2b. Summary of Assessment Data Collected:

- Only one group of students were not asked to complete the cover page for this part of the assessment. 50 of the 60 students assessed completed the form with the following results:
 - 33 (66%) of the 50 students reported that they felt confident or very confident in completing the lab report.
 - 7 (14%) of the 50 students reported that they were nervous, unsure, or uncomfortable in writing a lab report.
 - Confidence of students doesn't match with low ratings

2c: Use of Results to Improve Program/Unit Impact/Services [Closing the loop]:

- Make sure to collect the same data for all lab reports submitted when the project is run again.
 - Repeat directions more than a few times.
 - Remind assignment administrators again just before distributing the assignment
- Increase student confidence in their writing. 75% of the students will report feeling confident in writing the lab report.
 - Provide immediate feed back
 - Find ways for expectations from instructors to be clear to students such as providing students with rubrics before the assignment is due.
 - Provide more opportunities for scientific writing.

Third Means of Assessment for Evaluation Question Identified Above (from your approved assessment plan) (3-12):

3a. Means of Unit Assessment & Criteria for Success:

3b. Summary of Assessment Data Collected:

3c: Use of Results to Improve Program/Unit Impact/Services[Closing the loop]: