UA Rich Mountain
Assessing Student Learning
Course Outcomes Report
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1. **Purpose**
The Course Outcomes Report supplies information each semester regarding student learning on the course level. This report must be submitted to your division chair by the last day of the semester. Data from this report will be integrated into the annual Program Review. The Strategic Goals aligned with this report are Strategic Goal Three: Provide High Quality Education and Strategic Goal Four: Continuous Quality Improvement.

2. **Course Details**
Course Name: University Chemistry II Course #: CHEM1123

3. **Assessed Outcome**
Course Outcome: Understand the concept of solubility and solution composition, different colligative properties, kinetics of a reaction by applying rate laws, equilibrium constant and the equilibrium expression calculation, comparison of pH of strong and weak acids and bases, titrations between acids and base involving pH measurements, solubility and solubility product constant, a relationship among three fundamental quantities of thermodynamics, electrochemical reactions as redox reactions.

Related Program Outcome: Students will increase their understanding of basic principles and their application in the field of physical sciences and biological sciences.

Related GELO category (choose one):
- ☒ Thinking critically
- ☐ Communicating effectively
- ☐ Using technology
- ☐ Conducting relevant research

4. **Evidence of Student Learning**
Describe the classroom activity/tools related to the **course** objective (project, discussion, essay, quiz, etc.): Pre- and post-tests were given at the beginning and at the end of the semester, respectively. Results from the pre-post tests were compared to quantify level of understanding in students.

5. **Course Data**
Number of students in your course(s) who met the course objective: 5

Total number of students in your course section(s): 7

Percent (%) of students achieving this course objective: 71

6. **Response to Data**
Will you change how you teach as a result of this assessment?

☐Change(s) needed. *Type explanation here.*
☒No change(s) needed. *Type explanation here.*

***Attach <u>anonymous</u> student samples of each activity along with the grading rubric/scale.**
****Attach any meeting minutes associated with this assessment.**