**UA Rich Mountain**
**Assessing Student Learning**
**Course Outcomes Report**
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**Fall 2020**

## 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 Outcomes Report on Student Learning.

## 2. Background

Course Name: University Chemistry I Lab Course # CHEM1101

## 3. Course Outcome(s) being assessed this semester

**Think of the evidence of student learning activity or project. Choose ONE outcome for this course.**

- Develop critical thinking and research skills based on basic laws of nature and chemistry.

Strategic Goals: Select the Goal(s) associated with the Course Outcomes(s) being assessed this semester.
https://services.uarichmountain.edu/intranet/staff/annualpubs/

☐Goal One: Mission Driven
☐Goal Two: Operate with Integrity
☒Goal Three: Provide High Quality Education
☐Goal Four: Continuous Quality Improvement
☐Goal Five: Effective & Efficient Operations

Related Program Outcome: Type here.

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 **course** objective (What did they do for the class which was tied to this objective? Was it a project? Discussion? Quiz?)

Describe Activity: It was a molecular model lab in which students should build the models based on the structure they have created for the given seventeen specific molecules. The structure they create in turn depends on the knowledge they gained for drawing Lewis structure for that molecule. This is a

multi-step process in which if they missed one step, the following step would cause problem and need to go back. Following all the steps and finalizing the shape of the molecule has a significant amount of critical thinking involved. With guidance from the instructor students felt good about the structure-property relations of the given compounds.

**5. Reflection**

**A.** What was the result of this activity? (How do you know that students satisfied the course objective being measured?)

The result was displayed in two methods – The data sheet would give the sturctures created by the students with total 10 points possible. Mistakes there would cause points deduction. The second part of the activity is to write a formal lab report following all the standards of a scientific report writing. That would give them 10 points.

**6. Enter course data**

Number of students in your course(s) who met course objectives: 9

Enter the number of students total in your course section(s): 10

Enter the percent (%) of students achieving this course objective. (Data will be used on Program Outcomes Report under Evidence of Student Learning.) 90%

**7. Response to data:** Will you change how you teach as a result of this assessment?

Choose only one of the narration options below. If curricular changes are needed, briefly explain any changes planned for course improvement. If no changes are needed, indicate the rationale in the space provided below.

☐Changes(s) needed. *Type here*

☒No change(s) needed

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