UA Rich Mountain
Assessing Student Learning
Course Outcomes Report
Gaumani Gyanwali
Fall 2023

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: Principles of Chemistry Course #: CHEM1053

3. **Assessed Outcome**
Course Outcome: Upon successful completion of CHEM1053 and CHEM1051 the students will increase their understanding and problem-solving skills in- significant figures, accuracy and precision, scientific notations, density, temperature conversions, atomic structure, mass number and isotopes, ions and molecules, periodicity, chemical bonds, chemical reactions, gas properties and gas laws, molecular mass mole concept, solution properties and concentrations, acids and bases, pH and pOH, nuclear radiations, nuclear 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 to students in the beginning of the semester and at the end of the semester, respectively, to assess their critical thinking of the basic principles of chemistry

5. **Course Data**
Number of students in your course(s) who met the course objective: 11

Total number of students in your course section(s): 13

Percent (%) of students achieving this course objective: 85%

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.**