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: Number Systems I Course #: MTH 223 – lec 01

3. **Assessed Outcome**
Course Outcome: **Course Objectives:** Upon successful completion of MTH 223 Number Systems I, the student should be able to: Construct and explain concrete, pictorial, and abstract models for concepts and operations of sets, whole numbers, fractions, decimals, and percents; solve real-world applications using numerous strategies; translate and perform operations in other number bases and numeration systems; identify and analyze number theory topics including primes, composites, factors, multiples, greatest common factor, and least common multiple; use thinking strategies to perform mental math, estimation, and non-standard algorithms. Students will demonstrate mastery of the above objectives by grades of C or above on quizzes, tests, and final exam.

Related Program Outcome: The purpose of the Associate of Arts Program is to provide students with the knowledge and critical thinking skills that will enable students to analyze problems, arrive at intelligent conclusions, and make reasoned choices in their professional and personal lives.
- Students will demonstrate competency in mathematics, including analytical and occupational skills.
- Students will apply technological skills to process information.
- Students will be prepared to compete academically upon transfer to a four-year institution.

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.): Discussion, homework assignments, tests. Course data is based upon pre and post-test data. Students were given a pre-test at the beginning of the semester and the same test at the end of the

semester. The results were compared. To meet the course objective, a student had to score at least a 70%. 0% of students met the objective on the pre-test. Post-test objectives are listed in Item 5 below.

5. Course Data

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

Total number of students in your course section(s): 11

Percent (%) of students achieving this course objective: 82%

6. Response to Data

Will you change how you teach as a result of this assessment?

☒Change(s) needed. More hands-on activity and student presentation in class

☐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.**