UA Rich Mountain
Assessing Student Learning
Course Outcomes Report
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Spring 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: Number Systems II Course #: MTH 233 – lec 01

3. **Assessed Outcome**
   Course Outcome: Upon successful completion of MTH 223 Number Systems II, the student should be able to: 1. Organize, interpret, and analyze statistics from many types of graphs and create graphs. 2. Calculate and apply probability and counting techniques to real-world problems. 3. Recognize and analyze basic geometric shapes, including polygons and polyhedra, and various transformations. 4. Demonstrate understanding of measurement skills by calculating length, perimeter, area, surface area, and volume. Students will demonstrate mastery of the above objectives by grades of C or above on portfolio, presentations, 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.): Comparison of pre- and post-tests.

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): 5

Percent (%) of students achieving this course objective: 100%

6. Response to Data

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

☒Change(s) needed. All students were successful; however, I am always trying to improve.
☐No change(s) needed.

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

Number Systems II Spring 2023 Pre-test & Post-test Scores

Student	Pre-test	Post-test	Grading Scale
A	59	95	A=90 to 100
B	28	96	B=80 to 89
C	44	91	C=70 to 79
D	39	86	D=60 to 69
E	27	79	F= 0 to 59
Average	**39.4**	**91.8**	