UNIVERSITY OF ARKANSAS
PULASKI TECH

Assessment Report:
2019-2020:
(Physical Science Lab)

1. Name of individual compiling report: *Chris Weaver*

2. Date of submission: *9-30-20*

3. Is the assessment plan (*Check or highlight one*)

☐ an initial plan for the program ☐ a revision of an old plan ☒ unaltered from previous year

Course-Level Learning Outcomes-

1. What are the Course-Level Outcomes (CLOs)?

1. The student will be able to properly measure and report measurements with the proper significant figures and with the experimental error.
2. The student will be able to use the properties of chemical substances to identify them and be able to balance chemical equations involving those substances.
3. The student will analyze motion, its relationship to force, and the effects of objects in motion when they collide with each other
4. The student will learn the different types of energy and the relationship between energy, heat, electricity, and magnetism.

2. Which CLOs were addressed for this academic year? (2019-2020)

CLO 1 and 3

3. Which CLOs are being addressed in your assessment plan next academic year? (2020-2021)

CLO 1 and 3

4. Explain the assessment cycle.

Fall and Spring: Acceleration of Gravity Lab

5. What are the assessment methods? Are they direct or indirect?

Direct

6. What are the assessment goal(s)?

70% of students at or above "Meets Expectations"

7. What were the findings for this academic year? (2019-2020)

The assessment goal was met in both semesters. More than 70% of students "Met Expectations" by getting within 2% experimental error of the required value. More than half the students "Exceeded Expectations" by getting within 1% experimental error.

8. What is your analysis of the findings?

With the new equipment, students were successfully able to determine the acceleration of gravity with necessary accuracy. As long as they understood the proper procedure, they were able to replicate the acceleration of gravity within the required amount of experimental error. The move to the new equipment by the faculty was brought on by discussions that noted that the older equipment was adding systemic error.

9. What is the action plan for the next academic year? (2020-2021) Explain.

Reuse the Gravity Lab for assessing CLO 1 and 3. If student continue to be successful in meeting the expectations of the lab, the faculty will discuss using Identity of a Liquid lab to assess CLO 1 and 2 in future years.