

UNIVERSITY OF ARKANSAS PULASKI TECH

Course-Level Assessment Report Course: PHYS 1300: Physical Science Academic Year: 2020-2021

Due to Chair/Program Director and Faculty Assessment Chair by September 4



1. Name of course:	Physical Science
2. Name of individual(s) compiling report:	Chris Weaver
3. Date of submission:	September 1, 2021
4. Academic year:	2020 - 2021

Course-Level Learning Outcomes

- 1. What are the Course-Level Outcomes (CLOs)?
- 1. The student will be able to apply the scientific method to aid in problem solving and will be able to use multiple different measurement systems.
- 2. The student will be able to identify the particles that make up an atom and how those particles interact with other atoms to create bonds via chemical reactions.
- 3. The student will be able to analyze motion and calculate measures of motion along with how force changes and object's motion.
- 4. The student will be able to calculate measures of energy, electricity, and magnetism while also being able to make connections between energy, electricity, and magnetism.
- 5. Which CLOs were addressed for the academic year?

All of them.

6. Which CLOs are being addressed in your assessment plan in the upcoming academic year?

All of them.

7. Explain the assessment cycle.

Fall: Chemistry Assessment (CLOs 1 and 2) and Final (All CLOs)

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Spring: Physics Assessment (CLOs 3 and 4) and Final (All CLOs)

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

Chemistry Assessment: Exam (direct) Physics Assessment: Exam (direct) Final: Exam (direct)

9. What are the assessment goal(s), including benchmarks?

Chemistry Assessment: 80% average Physics Assessment: 70% average Final: 80% average

10. What were the findings for the academic year?

The goal for each of the assessments was reached.









11. What is your analysis of the findings?

The chemistry assessment continued to show an upward trend (four years of data), with scores improving for both CLOs (CLOs 1 and 2) tested on the assessment. Overall, there was an increase in the average from 84.2% to 88.8%.

The physics assessment showed an increase in scores over the previous year (two years of data). Both CLO 3 and CLO 4 met the goal set. In the previous year, CLO 4 had not met the goal (61.7%), but the goal was achieved this academic year (72.7%). Overall, there was an increase in score from 65.7% to 77.1%.

The final saw improvement over the previous year, meeting the 80% goal set. In the Fall, only CLO 4 did not meet the 80% threshold (79.8%). In the Spring, all four CLOs met the threshold.



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Overall, the Fall and Spring scores were similar (between 87% and 88%).

12. What is the action plan for the upcoming academic year? Explain.

The assessment schedule for the upcoming academic year will be as follows:

Fall: Chemistry Assessment (CLOs 1 and 2), Paper (CLOs 1 and 2), and Final (All CLOs)

Spring: Physics Assessment (CLOs 3 and 4), Paper (CLOs 1 and 2), and Final (All CLOs)

In regards to the chemistry and physics assessments and the final, we will try to target certain questions where students have had low scores consistently in an attempt to improve student understanding on those topics.