UNIVERSITY OF ARKANSAS
PULASKI TECH

Course-Level Assessment Report

Course: PHYS 1300

Academic Year: 2022-2023

Due to Chair/Program Director and Faculty Assessment Chair by September 1

1. Name of course: *Physical Science*

2. Name of individual(s) compiling report: *Chris Weaver*

3. Date of submission: *9-6-2023*

4. Academic year: *2022-2023*

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 an 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.

2. Which CLOs were addressed for the academic year?

1, 2, 3, and 4

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

1, 2, 3, and 4

4. How does this report connect or map to program-level or institutional-level outcomes?

CLO 1 → ILO 2, 6, 7 and PLO 1, 2, 3

CLO 2 → ILO 2, 6, 7 and PLO 4, 5, 6, 7, 8, 9

CLO 3 → ILO 2, 6, 7 and PLO 10

CLO 4 → ILO 2, 6. 7 and PLO 11, 12, 13

For each Course Level Outcome assessed this academic year, please complete the chart below, providing the assessment data for both fall and spring, and then a total for the academic year.

Assessment Methods- How did you assess student learning (define direct assessment methods used) in relation to the course level outcome being reported? *Note: If more than one assessment method was used, you may insert an additional row.*	CLO 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. Direct Final – Students are asked to complete a comprehensive and standardized final. They have 2 hours to complete the final.	
Were indirect assessment methods also used to assess students? If 'yes', please describe the method used.	***Yes***	***No***
How do you define success for an individual student on the CLO assessment assignment or measure?	*Student scores 70% on the 12 questions on the final covering CLO 1.*	
How do you define success for the course level outcome? What is the benchmark for the Course Level Outcome?	*70% of students in the course achieve success on the CLO 1 portion of the assessment assignment.*	

How many students completed the assessment, and how many were successful?	***Fall*** *102 students assessed* *97 successful* *(95% success rate)*	***Spring*** *76 students assessed* *72 successful* *(95% success rate)*
Academic Year Total (add the numbers from Fall and Spring)	*178 students assessed* *169 successful* *(94% success rate)*	
Was the benchmark/goal for this academic year met?	***Yes***	***No***
Were standardized rubrics, tests, or checklists used?	***Yes***	***No***

Assessment Methods- How did you assess student learning (define direct assessment methods used) in relation to the course level outcome being reported? *Note: If more than one assessment method was used, you may insert an additional row.*	CLO 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. Direct Final – Students are asked to complete a comprehensive and standardized final. They have 2 hours to complete the final.	
Were indirect assessment methods also used to assess students? If 'yes', please describe the method used.	***Yes***	***No***
How do you define success for an individual student on the CLO assessment assignment or measure?	*Student scores 70% on the 13 questions on the final covering CLO 2.*	
How do you define success for the course level outcome? What is the benchmark for the Course Level Outcome?	*70% of students in the course achieve success on the CLO 2 portion of the assessment assignment.*	

How many students completed the assessment, and how many were successful?	***Fall*** *102 students assessed* *100 successful* *(98% success rate)*	***Spring*** *76 students assessed* *76 successful* *(100% success rate)*
Academic Year Total (add the numbers from Fall and Spring)	*178 students assessed* *176 successful* *(99% success rate)*	
Was the benchmark/goal for this academic year met?	***Yes***	***No***
Were standardized rubrics, tests, or checklists used?	***Yes***	***No***

Assessment Methods- How did you assess student learning (define direct assessment methods used) in relation to the course level outcome being reported? *Note: If more than one assessment method was used, you may insert an additional row.*	CLO 3. The student will be able to analyze motion and calculate measures of motion along with how force changes an object's motion. Direct Final – Students are asked to complete a comprehensive and standardized final. They have 2 hours to complete the final.	
Were indirect assessment methods also used to assess students? If 'yes', please describe the method used.	***Yes***	***No***
How do you define success for an individual student on the CLO assessment assignment or measure?	*Student scores 70% on the 12 questions on the final covering CLO 3.*	
How do you define success for the course level outcome? What is the benchmark for the Course Level Outcome?	*70% of students in the course achieve success on the CLO 3 portion of the assessment assignment.*	

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How many students completed the assessment, and how many were successful?	***Fall*** *102 students assessed* *91 successful* *(89% success rate)*	***Spring*** *76 students assessed* *70 successful* *(92% success rate)*
Academic Year Total (add the numbers from Fall and Spring)	*178 students assessed* *161 successful* *(90% success rate)*	
Was the benchmark/goal for this academic year met?	***Yes***	***No***
Were standardized rubrics, tests, or checklists used?	***Yes***	***No***

Assessment Methods- How did you assess student learning (define direct assessment methods used) in relation to the course level outcome being reported? *Note: If more than one assessment method was used, you may insert an additional row.*	CLO 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. Direct Final – Students are asked to complete a comprehensive and standardized final. They have 2 hours to complete the final.	
Were indirect assessment methods also used to assess students? If 'yes', please describe the method used.	***Yes***	***No***
How do you define success for an individual student on the CLO assessment assignment or measure?	*Student scores 70% on the 13 questions on the final covering CLO 4.*	
How do you define success for the course level outcome? What is the benchmark for the Course Level Outcome?	*70% of students in the course achieve success on the CLO 4 portion of the assessment assignment.*	

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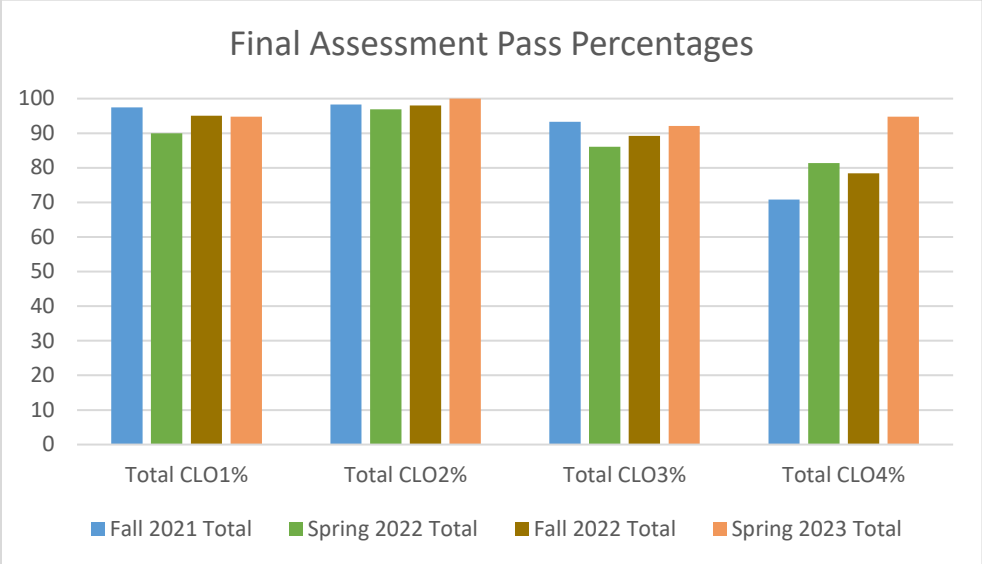
How many students completed the assessment, and how many were successful?	***Fall*** *102 students assessed* *80 successful* *(78% success rate)*	***Spring*** *76 students assessed* *72 successful* *(95% success rate)*
Academic Year Total (add the numbers from Fall and Spring)	*178 students assessed* *152 successful* *(85% success rate)*	
Was the benchmark/goal for this academic year met?	***Yes***	***No***
Were standardized rubrics, tests, or checklists used?	***Yes***	***No***

5. What is your analysis of the findings?



For CLO 1. Final. Both semesters show a pass rate of over 70%. Our goals were met for this learning objective. The assessment is a mixture of calculations, definitions, and critical thinking concepts. The performance on this CLO is comparable to the performance during 2021-2022.

For CLO 2. Final. Both semesters show a pass rate of over 70%. Our goals were met for this learning objective. The assessment is a mixture of calculations, definitions, and critical thinking concepts. The performance on this CLO is comparable to the performance during 2021-2022.

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For CLO 3. Final. Both semesters show a pass rate of over 70%. Our goals were met for this learning objective. The assessment is a mixture of calculations, definitions, and critical thinking concepts. The performance on this CLO is comparable to the performance during 2021-2022.

For CLO 4. Final. Both semesters show a pass rate of over 70%. Our goals were met for this learning objective. The assessment is a mixture of calculations, definitions, and critical thinking concepts. There was considerable improvement of performance on this CLO when compared to 2021-2022.

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

For CLOs 1, 2, 3, and 4. Final. Continue to use standard final for all sections of class, test will be administered online via Blackboard for both in person and online sections.

Instructors met at the beginning of the fall semester to review results and data to determine any necessary changes for the next academic year. Instructors will meet again before next fall semester to identify trends and consider adjustments for the next academic year.

Instructors will meet next year to discuss the data for 2023-2024 and determine what topics to target for improvement based on performance by a question-by-question approach.

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