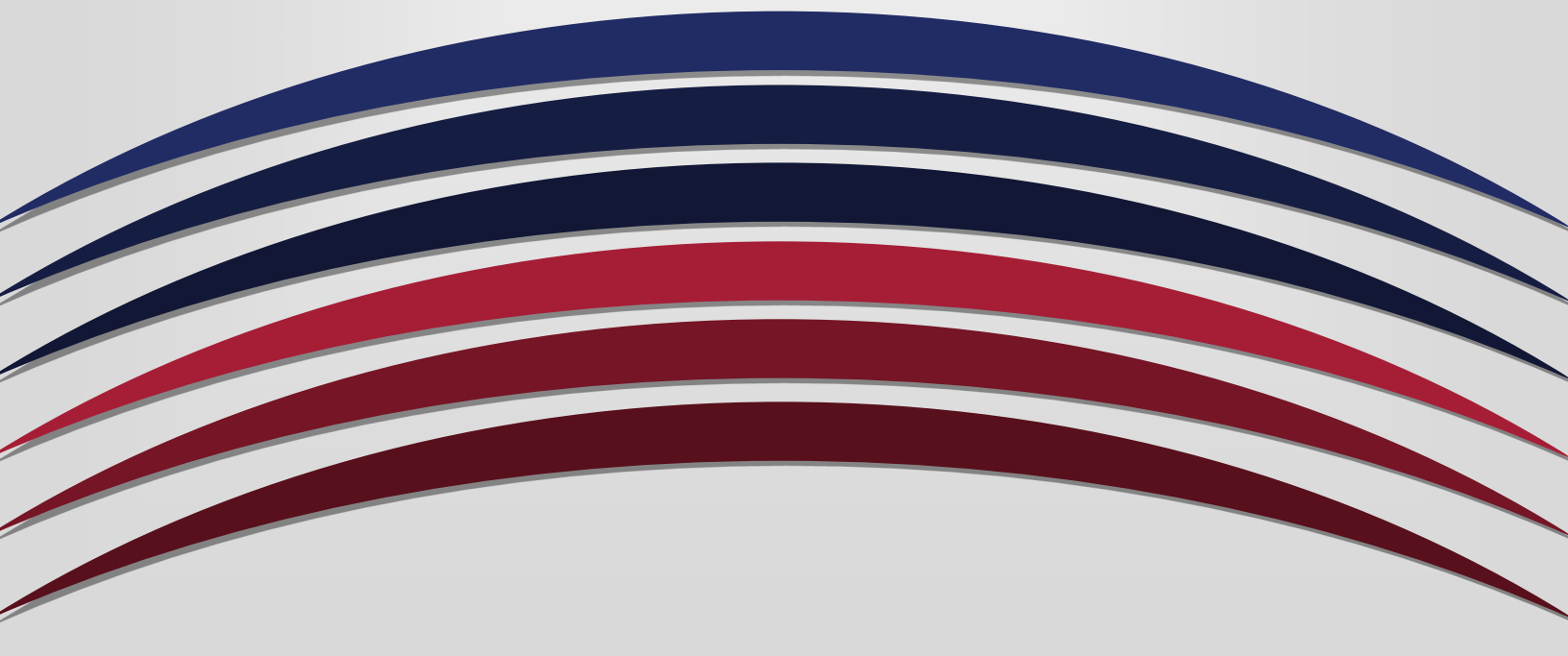




UNIVERSITY OF ARKANSAS
PULASKI TECH

Course-Level Assessment Report
Course: Biological Science Lab
BIOL1102
Academic Year: 2021-2022

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



1. Name of course: Biological Science Lab BIOL 1102
2. Name of individual(s) compiling report: Ben Rains
3. Date of submission: September 14, 2022
4. Academic year: Fall 2021-Spring 2022

Course-Level Learning Outcomes

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

CLO 1 Test hypothesis – Test a hypothesis that is formulated from observations.

CLO 2 Microscope use - Use of microscope and other lab equipment.

2. Which CLOs were addressed for the academic year?

Both CLOs were assessed, although only CLO1 data was collected and analyzed.

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

We plan on continuing the collection and assessment of CLO1. We plan on continuing the microscope assessment but data will not be collected this cycle. Due to covid changes, we feel that continuing the current plan is best. In future cycles we will may assess the microscope and not analyze the paper.

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

(ILO link: <https://uaptc.edu/college-academics/resources/student-learning-outcomes>
PLO list will vary depending on your Program.)

CLO 1 and 2 most closely matches ILO 1, 2, and 4.

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.

<p>Assessment Methods- How did you assess student learning (define direct assessment methods used) in relation to the course level outcome being reported?</p> <p><i>Note: If more than one assessment method was used, you may insert an additional row.</i></p>	<p><i>CLO 1 is a direct measure of the student's ability to collect information, use equipment properly, analyze a data set and present it in a written format.</i></p> <p><i>CLO2, the microscope assessment, is a direct measure. This information was not analyzed this cycle.</i></p>	
<p>Were indirect assessment methods also used to assess students? If 'yes', please describe the method used.</p>		No
<p>How do you define success for an individual student on the CLO assessment assignment or measure?</p>	<p><i>Student scores 70% on performance criteria for both CLO 1 & 2.</i></p> <p><i>CLO is a paper submitted in journal format.</i></p> <p><i>CLO 2 is a hands on test where students demonstrate proficiency with a microscope.</i></p>	
<p>How do you define success for the course level outcome? What is the benchmark for the Course Level Outcome?</p>	<p><i>70% of students in the course achieve success on the CLO 1 and 2 assessments.</i></p>	
<p>How many students completed the assessment, and how many were successful?</p>	<p>Fall</p> <p><i>96 students assessed</i> <i>83 successful</i> <i>(86.4% success rate)</i></p>	<p>Spring</p> <p><i>97 students assessed</i> <i>85 successful</i> <i>(87.6% success rate)</i></p>
<p>Academic Year Total (add the numbers from Fall and Spring)</p>	<p><i>193 students assessed</i> <i>168 successful</i> <i>(87.0% success rate)</i></p>	

Was the benchmark/goal for this academic year met?	Yes	
Were standardized rubrics, tests, or checklists used?	Yes	

5. What is your analysis of the findings?

CLO 1 is a direct measure using a paper written by the student. Scientific Journal format is required, and the paper assesses use of laboratory equipment, data collection and analysis, and written presentation.

The collected data demonstrated we exceeded our stated goals in the past year. It should be noted that the past year was more similar to our past semesters prior to the pandemic. Student and faculty members were impacted by illness and covid in the fall. High rates of absences in students were remarked upon during the year.

During fall 2022 the faculty will meet to discuss the fall 2022 data. This semester is structured according to the pre-pandemic modalities and we hope to have data that is more comparable to pre-covid semesters. The covid pandemic resulted in many changes needed to maintain a safe environment.

CLO 2 The microscope assessment was conducted, but not analyzed this year.

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

Explain.

We plan to continue to assess CLO 1 via the journal format paper. The paper has been piloted over the past semesters, although the pilot was also impacted by covid and covid adaptations. We hope to use this fall's data to inform any possible changes needed.