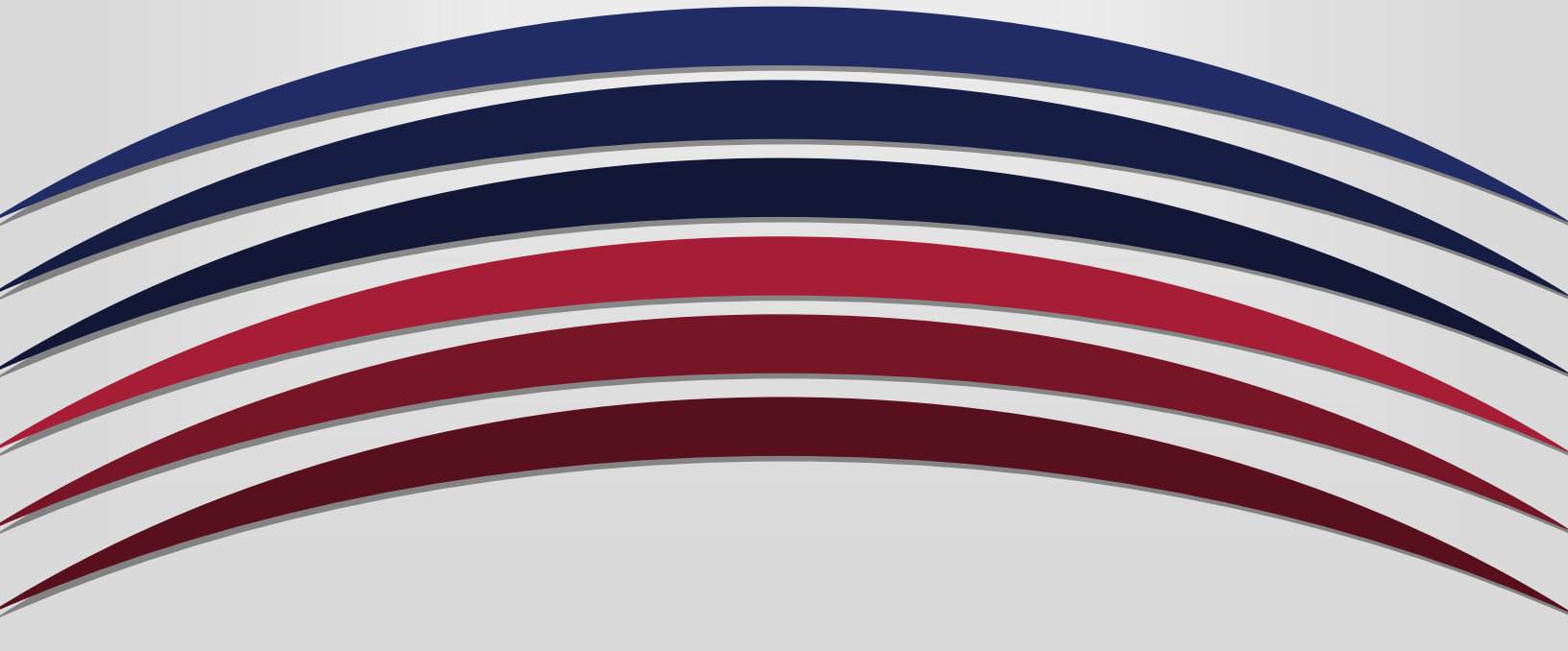
UNIVERSITY OF ARKANSAS
PULASKI TECH

# Course-Level Assessment Report
# Course: CIS 1143 Introduction to Programming
# Academic Year: 2022-2023



1. Name of course: *CIS 1143*

2. Name of individual(s) compiling report: *Raymond Williams*

3. Date of submission: *Oct 5 2023*

4. Academic year: *2022-2023*

# Course-Level Learning Outcomes

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

1. Understand the foundational concepts of Python programming.
2. Manipulate numerical data using the NumPy library.
3. Analyze and manipulate structured data using the Pandas library.
4. Interpret data relationships using Pandas correlation methods.
5. Visualize data using basic and advanced functionalities in Matplotlib.
6. Develop interactive applications or games in Python.

## 2. Which CLOs were addressed for the academic year?

All CLOs are brand new as is the course contnet

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

All

## 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.)

These CLOS map to the following ILOs
2. Appropriately apply a variety of technology tools within one's discipline. (Technology Literacy)
4. Apply critical thinking skills to achieve a desired goal. (Critical Thinking)
5. Use quantitative methods to solve problems. (Quantitative Reasoning)

These CLOs map to PLOs 1-4 listed below
-Assess technology problems and implement the best solutions both independently and as a dependable team member

· Communicate both in writing and verbally about computing concepts and processes using technical terms effectively to both professional and lay audiences in order to secure and maintain employment.

· Demonstrate knowledge of mathematics and logical approaches to problem-solving in order to analyze a situation and anticipate and prepare for a variety of unknown events that might impact the operation of a computer system or network.

· Demonstrate technical computing skills to prepare for industry certification or to be technically competent in a particular computing position or job field.

## 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?<br><br>*Note: If more than one assessment method was used, you may insert an additional row.* | *Course work is progressive in nature as are the CLOs. As the student progresses, each assignment addresses the previous CLO(s) and new ones in a logical order that follows industry standards. The assignments are hands-on and simulate the real work environment.* |
| Were indirect assessment methods also used to assess students? If 'yes', please describe the method used. | ***No*** |
| How do you define success for | *Successful completion of the assignment which is* |



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| | | |
|---|---|---|
| an individual student on the CLO assessment assignment or measure? | *a hands-on real-life project. Students are allowed to resubmit until they master the area of assessment.* | |
| 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 assessment assignment or measure* | |
| How many students completed the assessment, and how many were successful? | ***Fall 2022*** | ***Spring*** |
| Academic Year Total (add the numbers from Fall and Spring) | *56 students assessed*<br>*43 successful*<br>*(78%)* | |
| Was the benchmark/goal for this academic year met? | ***NA*** | |
| Were standardized rubrics, tests, or checklists used? | ***NA*** | |

## 5. What is your analysis of the findings?

*NA*

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

*The CLOs and course were just created the course updated.*



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