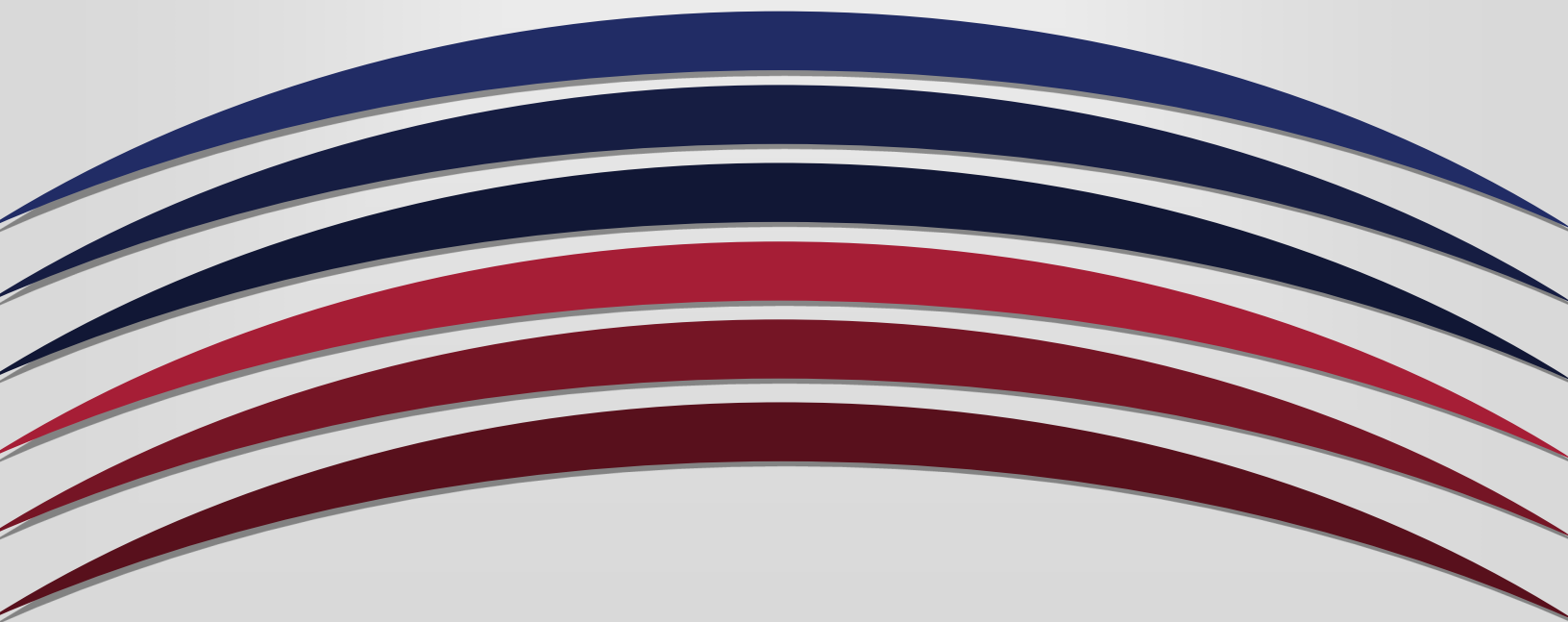


UNIVERSITY OF ARKANSAS
PULASKI TECH

Course-Level Assessment Report
Course: Math 1405 Calculus II
Academic Year: 2022 - 2023

Due to Chair/Program Director and Faculty Assessment Chair by
September 15



1. Name of course: Math 1405 Calculus II
2. Name of individual(s) compiling report: Denise Hammett
3. Date of submission: Sept 18, 2023
4. Academic year: 2022 – 2023

Course-Level Learning Outcomes

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

We use Student Learning Outcomes (CLOs).

CLO # 1: The student will understand and apply the following integration techniques:

- a. Integration by parts
- b. Trigonometric and substitutions
- c. Integration of rational functions using partial functions

CLO #2: The student will be able to perform applications of integration.

CLO #3: The student will understand and apply improper integrals.

CLO #4: The student will understand and apply sequence and infinite series including:

- a. Convergence test
- b. Taylor Series
- c. Radius of Convergence

2. Which CLOs were addressed for the academic year?

CLO # 1: The student will understand and apply the following integration techniques:

- d. Integration by parts
- e. Trigonometric and substitutions
- f. Integration of rational functions using partial functions

CLO #2: The student will be able to perform applications of integration.

CLO #3: The student will understand and apply improper integrals.

CLO #4: The student will understand and apply sequence and infinite series including:

- d. Convergence test
- e. Taylor Series
- f. Radius of Convergence

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

CLO # 1: The student will understand and apply the following integration techniques:

- g. Integration by parts
- h. Trigonometric and substitutions
- i. Integration of rational functions using partial functions

CLO #2: The student will be able to perform applications of integration.

CLO #3: The student will understand and apply improper integrals.

CLO #4: The student will understand and apply sequence and infinite series including:

- g. Convergence test
- h. Taylor Series
- i. Radius of Convergence

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>)

This report connects to the institution learning outcome number 5 (quantitatively reasoning).

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>Students across all sections completed a common comprehensive final exam. Questions were linked to specific course learning outcomes. Item analysis was performed to determine proficiency.</p>	
<p>Were indirect assessment methods also used to assess students? If 'yes', please describe the method used.</p>		<p>No</p>

How do you define success for an individual student on the CLO assessment assignment or measure?	Student scoring 75% or better on the questions linked to course learning objectives were defined as successful.	
How do you define success for the course level outcome? What is the benchmark for the Course Level Outcome?	75% or more of the students in the course achieve success on the item analysis of the course level objectives being measured on the final exam assessment.	
How many students completed the assessment, and how many were successful?	<i>Fall – 11 students assessed</i> CLO 1: 10 successful CLO 2: 6 successful CLO 3: 11 successful CLO 4: 10 successful	<i>Spring - 9 students assessed</i> CLO 1: 8 successful CLO 2: 5 successful CLO 3: 9 successful CLO 4: 7 successful
Academic Year Total (add the numbers from Fall and Spring)	Total Assessed: 20 CLO 1: 18 successful CLO 2: 11 successful CLO 3: 20 successful CLO 4: 17 successful	
Was the benchmark/goal for this academic year met?	<i>Yes; overall. CLO 2 did not meet our 75% threshold however.</i>	
Were standardized rubrics, tests, or checklists used?	<i>Yes, we used a standardized final exam.</i>	

5. What is your analysis of the findings?

In both the fall 2022 and spring 2023, we met and exceeded our goal on three out of four learning outcomes. Our success rate for fall 2022 and spring 2023 was a 91%, which we are extremely proud of in this course.

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

Explain.

We will continue to assess all student learning outcome in the academic year 2023 – 2024. We will keep monitoring all areas that we think need improvement especially course learning outcome #2.