

UNIVERSITY OF ARKANSAS PULASKI TECH

Assessment Report: 2020-2021 MATH 1405 Calculus II Due to Chair/Program Director and Assessment Coordinator by September 4th



Assessment Report MATH 1405 Calculus II

2020-2021

1. Name of course:	<u>MATH 1405_Calculus II</u>
2. Name of individual(s) compiling report:	Robert Habimana
3. Date of submission:	Sept. 30, 2021
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4. Academic year:

Course-Level Learning Outcomes

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

We use Student Learning Outcomes (SLOs).

SLO # 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
- SLO #2: The student will be able to perform applications of integration.
- SLO #3: The student will understand and apply improper integrals.
- SLO #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 this academic year? (2020-2021)

SLO # 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
- SLO #2: The student will be able to perform applications of integration.
- SLO #3: The student will understand and apply improper integrals.
- SLO #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 next academic year? (2021-2022)

SLO # 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
- SLO #2: The student will be able to perform applications of integration.
- SLO #3: The student will understand and apply improper integrals.
- SLO #4: The student will understand and apply sequence and infinite series including:
 - g. Convergence test
 - h. Taylor Series
 - i. Radius of Convergence

4. Explain the assessment cycle.

Students in the course are given a common final exam at the conclusion of each semester to ensure mastery of the student learning outcomes for the course. The results are tabulated and a discussion occurs with the course level instructors to analyze the results. Decisions are made only after thorough discussions and validity of results analyzed in more than one semester to ensure consistency.

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

The assessment for this course is a direct measure using a common final exam for all sections and students in the course during each semester. The final exam is a paper/pencil assessment given in a proctored environment to ensure the integrity of the assessment. Due to Covid – 19 pandemic the assessment was given online.

6. What are the assessment goal(s)?

To ensure mastery within the course, our goal is a 70% threshold for each student learning outcomes. This may be raised in future semesters once we have established a baseline for the course.



7. What were the findings for this academic year? (2020-2021)

Three out of four student learning outcomes were met in fall 2020 and two were met in spring 2021.

8. What is your analysis of the findings?

The results show that there was substantial improvement on SLO 3 going from fall 2020 to spring 2021. Students have been able to adjust to a new way of learning especially online.





9. What is the action plan for the next academic year? (2021-2022) Explain.

We will continue to assess all student learning outcome in the academic year 2021 – 2022. We keep monitoring all areas that we think need improvement.



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