

UNIVERSITY OF ARKANSAS PULASKI TECH

Assessment Report: 2018-2019 Due to Chair/Program Director and Assessment Coordinator by September 4th



Course-Level Learning Outcomes

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

We use Student Learning Outcomes (SLOs).

SLO #1: Students will be able to perform matrix operations, matrix row reductions, find matrix inverses, and solve matrix equations.

SLO #2: Students will show understanding of simple logic techniques and set theory using Venn diagrams and counting principles.

SLO #3: Students will be able to demonstrate statistical understanding, including central tendency, dispersion, and normal curves, as well as calculate various probability, including Bayes', and be able to find expected values.

SLO #4: Students will be able to translate, interpret, optimize, and solve real-world financial scenarios using various methods, including linear systems, graphical and data analysis, simplex method, and game theory.

2. Which CLOs were addressed for this academic year? (2018-2019)

All Student Learning Outcomes were addressed during the academic year 2018 – 2019.

3. Which CLOs are being addressed in your assessment plan next academic year? (2019-2020)

All Student Learning Outcomes will be addressed in our assessment plan during the 2019 – 2020 academic year.

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.

Return to Top of Document



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.

6. What are the assessment goal(s)?

To ensure mastery within the course, our goal is a 70% threshold for each student learning outcome. 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? (2018-2019)

All but two of the Student Learning Outcomes were met for the academic year. SLO #2 on Sets & Counting was not met for Summer 2019. SLO #3 on Statistics & Probability was not met either. We are monitoring the results for another cycle to see if there is a pattern within the required focus areas to see what can be done to help with these outcomes.

8. What is your analysis of the findings?

Further analysis of the SLO #2 determines that students specifically had issues with graphical counting techniques involving formulae. Further analysis of SLO #3 indicates students had particular difficulties with normal probability and possibly understanding of their calculator display.

These results show that the outcomes that relate to all students within the course are being met, but the two outcomes that only a few students in select focus areas must complete are not being met. The issue surrounding these outcomes is that they are very select topics within broader subjects that are inserted into an already content loaded course. Students do not have the depth of prior subject matter required to successfully master these objectives within such a short-time frame. The instructors in the focus areas are aware and understand the complexities involved and want the students to be made aware of the extra material and are building on it in their courses.



9. What is the action plan for the next academic year? (2019-2020) Explain.

This course was part of a redesign of the pathway's initiative implemented within the department in the fall of 2018. At this time, we will continue to use the same assessment plan for the 2019 – 2020 academic year so that we have two years of assessment findings to analyze.