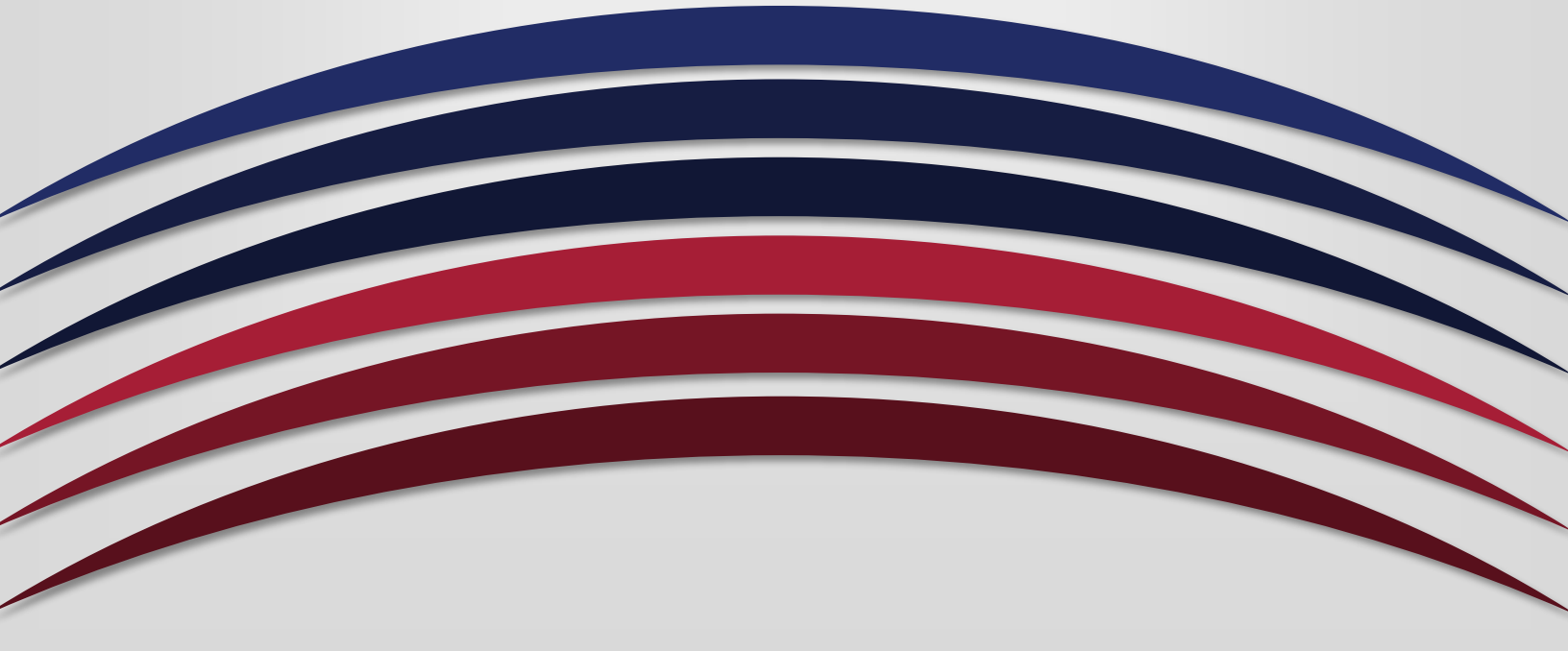
UNIVERSITY OF ARKANSAS
PULASKI TECH

Assessment Report:
2019-2020:
MATH2320
Introduction to Probability and Statistics



1. Name of individual compiling report: *Susan James*

2. Date of submission: *9/02/2020*

3. Is the assessment plan

☐ an initial plan for the program ☐ a revision of an old plan ☒ unaltered from previous year

Course-Level Learning Outcomes-

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

Student Learning Outcomes (SLOs)

SLO #1: Descriptive Statistics – Students will demonstrate a basic understanding of the application of collection and use of data for analysis, design of experiment, use of computers, calculators, and/or software for statistical analysis, relationship between sample and population.

SLO #2: Probability - Students will demonstrate a basic understanding of the application and use of computers, calculators, and/or software for statistical analysis, use of distribution tables, including solving problems by using them, basic principles of probability.

SLO #3: Inference - Students will demonstrate a basic understanding of the application of correlation of Analysis, analysis of inference, linear regression, use of computers, calculators, and/or software for statistical analysis, performing hypothesis test involving means, proportions, standard deviations, and variances, confidence intervals.

2. Which CLOs were addressed for this academic year? (2019-2020)

All Student Learning Outcomes were addressed during the academic year 2019 – 2020.

3. Which CLOs are being addressed in your assessment plan next academic year? (2020-2021)

All Student Learning Outcomes will be addressed in our assessment plan during the 2020 – 2021 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. Discussions with the Statistics instructors also occur periodically to ensure the course is meeting the needs of students within those disciplines as is the intention of the course.

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 for Spring 2020 was an online exam due to COVID 19.

6. What are the assessment goal(s)?

To ensure mastery within the course, our goal is a 70% threshold for each student learning outcome.

7. What were the findings for this academic year? (2019-2020)

Fall 2019
SLO #1 Descriptive Statistics – 81.71% Success Rate
SLO #2 Probability – 73.85% Success Rate
SLO #3 Inference – 58.33% Success Rate

Spring 2020
SLO #1 Descriptive Statistics – 86.29% Success Rate
SLO #2 Probability – 81.19% Success Rate
SLO #3 Inference – 72.04% Success Rate

8. What is your analysis of the findings?

We are meeting our goal of 70% on all three of our CLOs. Our results from Spring 2020 were significantly better than the results from Fall 2019.

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9. What is the action plan for the next academic year? (2020-2021) Explain.

We will continue to monitor the results of our SLOs in this school year. We met our goals on all SLOs, but we can continue trying to improve student performance on SLO 3. We will be discussing ways to do this in our course level meetings this fall.