

# UNIVERSITY OF ARKANSAS PULASKI TECH

## Assessment Report: 2019-2020: (Foundations of Algebra) Math 0401





1. Name of individual compiling report:

Deborah C. Desjardin

2. Date of submission:	
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3. Is the assessment plan

an initial plan for the program

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unaltered from previous year

#### Course-Level Learning Outcomes-

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

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We use Student Learning Outcomes (SLOs).

SLO #1: Students will be able to demonstrate algebraic skills in solving linear equations and inequalities.

SLO #2: Students will be able to graph and write linear equations using multiple methods. SLO #3: Students will be able to find the slope and y-intercept of a line using the slope-intercept form of an equation.

SLO #4: Students will be able to simplify exponential and polynomial expressions.

SLO #5: Students will be able to factor and simplify polynomial and rational expressions.

## 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 Foundations of Algebra instructors also occur periodically to ensure the course is meeting the needs of students within those disciplines as is the intention of the course.



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## 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. The final exam was given online due to Covid 19 and the students sent their paper/pencil version into the teacher within 10 minutes of completing the exam.

#### 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? (2019-2020)

#### Linear Equations/Inequalities (SLO 1)

In the fall semester the students met their threshold at 75.14% In the spring the students met their threshold at 78.39%.

### Graphing (SLO 2) Students will be able to graph and write linear equations using multiple methods.

In the fall semester the students met their threshold at 71.50% In the spring the students met their threshold at 70.34%

## Slope-Intercept (SLO 3) Students will be able to find the slope and y-intercept of a line using the slope-intercept form of an equation.

In the fall semester the students met their threshold at 72% In the spring we came close to making our threshold with a 69%

## Exponents and Polynomials (SLO 4) Students will be able to simplify exponential and polynomial expressions.

In the fall semester the students met their threshold at 81% In the spring the students met their threshold at 80%

### Factoring (SLO 5) Students will be able to factor and simplify polynomial and rational expressions.

In the fall semester the students met their threshold at 70% In the spring the students met their threshold at 72%

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

Our analysis of the findings is that the students that attended throughout the year and took the final did well and met almost all of the assessment goals presented in the final exam.

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

#### Linear Equations/Inequalities (SLO 1)

**Action** The students exceeded the 70% criteria. We feel that this was a result of adding an hour of lab time to this course. (01/18/19) We feel that the additional time that was added helped with our success rates. We plan to keep that additional hour of lab time for the Foundations of Algebra course.

### Graphing (SLO 2) Students will be able to graph and write linear equations using multiple methods.

**Action** We will continue to give more focus on this objective by using technology (graphing calculators), computer and quick assessments along the way in hopes to raise these scores further.

## Slope-Intercept (SLO 3) Students will be able to find the slope and y-intercept of a line using the slope-intercept form of an equation.

Action This objective saw a decrease between the fall and spring semester but we will meet as a team and discuss our outcome.

We will strive to have a higher increase in the fall. Our first meeting as a team will be September 25<sup>th</sup> and this will be discussed then.

## Exponents and Polynomials (SLO 4) Students will be able to simplify exponential and polynomial expressions.

**Action** Although we made the criteria we will continue to monitor the students. We will put emphasis on this objective in an effort to raise the percentage by wrapping these types of questions into our quizzes and tests.

### Factoring (SLO 5) Students will be able to factor and simplify polynomial and rational expressions.

**Action** The students met the 70% criteria but we will continue to monitor the progress of the students in hopes to raise the scores even further.



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