

# MTH 031 - MTH 131 SUPPORT

## Course Description

MTH 131 Support will focus on essential algebra skills needed for success in MTH 131. Course is for students concurrently enrolled in Math 131. Support topics include percentages, decimals, fractions, reading and creating graphs, interpreting and calculating measures of center and variation, and create and interpret scatter plots, the line of best fit, and the slope and y intercept in context, and using statistical software. Growth mindset and college readiness will be addressed throughout the course.

## Credit Hours

2

## Contact Hours

2

## Lecture Hours

2

## Required Prerequisites

A grade of 2.0 or better in MTH 100 or appropriate placement score

## Corequisites

MTH 131

## Recommended Prerequisites or Skills Competencies

College level reading

## Course Learning Outcomes

### Knowledge:

- Students will identify differences in percentages, decimals, and fractions, and work with each.
- Students will read bar graphs, pie graphs, line graphs, etc.
- Students will calculate mean, median, mode, range, and standard deviation.
- Students will become familiar with navigating the technology used in MTH 131.

### Application:

- The student will solve real world problems using appropriate models and strategies.
- Students will interpret the meaning of various graphs and measures of center and variation.
- Students will participate in hands-on activities for probability, including manipulatives for fractions and percentages.
- Students will calculate conditional probabilities with in-class activities
- Students will create scatterplots and run statistical analysis on them. Students will interpret the line of best fit, and the slope and y-intercept of the line of best fit.

### Integration:

- Students will relate all skills in this course to their MTH 131 course.

### Human Dimension:

- Self: Students will strive to improve areas of mathematical weakness based on feedback.
- Others: Students will collaborate with peers during group work.

### Caring - Civic Learning:

- Students will recognize the impact mathematics plays in civic situations such as politics, education and income.

### Learning How to Learn:

- Students will relate mathematical skills to real-life situations.