MDE 55 Course Outline

MDE 55* - Learning Support for Statistical Reasoning (3 CR) Corequisite(s): <u>MTH 155*</u> Course Type: Developmental

Description: Provides support to ensure success for students co-enrolled in <u>Statistical</u> <u>Reasoning (MTH 155*)</u>. Course will review foundational topics through direct instruction, guided practice, and individualized support. Lecture 3 hours per week.

Objectives:

- 1. Students will employ a set of learning skills used before, during, and after class including specific skill for test preparation.
- 2. Students will demonstrate a knowledge of the value of having a growth mindset.
- 3. Students will complete a fixed commitment calendar and discuss the benefits of time management.
- 4. Students will discuss the reasons for taking notes and doing homework in a math class.
- 5. Students will discuss the need for varying perspectives when learning about a subject from various sources. As an example, students will compare/contrast textbook methods and instructor methods.
- 6. Students will discuss how "doing" Math is a vehicle to understanding Math.
- 7. Students will discuss Math as a skill and the need for practice to improve skills.
- 8. Students will engage in an activity to help them better understand how to use feedback from assessments.
- 9. Students will successfully be able to use a scientific calculator to evaluate formulas.
- 10. Students will be able to accurately calculate the sample mean, median, mode, percentile, quartile and standard deviation.
- 11. Students will distinguish the difference between a z-score and a sampling distribution zscore.
- 12. Students will create and analyze a simple sampling distribution.

- 13. Students will create and analyze frequency tables.
- 14. Students will demonstrate familiarity with Minitab software, including generating basic descriptive statistics, creating box plots and histograms.

Suggested Formative/Alternative Assessments:

"Pre-Test" to the credit test about 1 week ahead to give feedback Test Error Analysis or Corrections Weekly Quizzes or other Assignment to check understanding

ADA Statement (PDF) Title IX Statement (PDF)