

MDE 54 Course Outline

MDE 54* - Learning Support for Quantitative Reasoning (3 CR)

Corequisite(s): MTH 154*

Course Type: Developmental

Description: Provides support to ensure success for students co-enrolled in [Quantitative Reasoning \(MTH 154*\)](#). Course will review foundational topics through direct instruction, guided practice, and individualized support. Lecture 3 hours per week.

Text: *Using and Understanding Mathematics: A Quantitative Reasoning Approach.* Bennett, Briggs. 7th edition. ISBN: 9780135903551

Objectives:

1. Comprehend math application problems, develop a plan to solve them, and communicate the answers mathematically and verbally when requested.
2. Demonstrate the knowledge to accurately input and calculate math problems in technology used in MTH 154.
3. Differentiate between types of argumentations.
4. Manipulate units of measurement to achieve desired target data.
5. Use and express percentages correctly in a variety of contexts applicable to MTH 154.
6. Differentiate between the forms of central tendency, calculate them, and implement them in different scenarios.
7. Illustrate skills of the fundamentals of the coordinate system and express functions using them.
8. Employ a set of learning skills before, during, and after class including exam preparation.
9. Demonstrate a knowledge of the value of a growth mindset.
10. Estimating correctly the time required outside of class to be successful.

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 \(PDF\)](#)