

MATH 75X : Introduction to Mathematical Reasoning

Credits: 4

Class Hours: 4 lecture

Description: This course prepares students for MATH 100, MATH 111, and MATH 115. Course topics include ratio and percent, unit conversion, graphs, data interpretation, basic algebra, solving linear equations, and working with formulas with special emphasis on pattern recognition and problem solving. This course will emphasize the importance of a growth mindset and number sense.

Semester Offered: Fall, Spring

Course Student Learning Outcomes (CSLOs):

1. Demonstrate number sense through estimation, mental arithmetic, and ordering of numbers.
2. Perform operations with integers, rational numbers, and variable expressions.
3. Demonstrate understanding of and implement the ideas of growth mindset to increase the learning of mathematics.
4. Recognize and express mathematical patterns in various forms and contexts.
5. Solve applied mathematical problems, judge reasonableness of results, and communicate conclusions using appropriate terminology and symbols.