

Virginia Western Community College

MTH 130

Fundamentals of Reasoning

Prerequisites

MTE 1, MTE 2, and MTE 3 or a placement recommendation for MTH 130 or equivalent.

Course Description

Presents elementary concepts of algebra, linear graphing, financial literacy, descriptive statistics, and measurement & geometry.

Semester Credits: 3 Lecture Hours: 3

Required Materials

Textbook:

Mathematics – Its Power & Utility. Smith. 10th edition. Cengage. ISBN: 9781111577421.

Other Required Materials:

Calculator

Course Outcomes

At the completion of this course, the student should be able to:

- Be able to use reasoning skills and knowledge/skills acquired in the course to solve mathematical problems.
- Be able to use technology to assist with solving mathematical problems.
- Be familiar with traditional approaches to solving mathematical problems and capable of using these approaches when necessary.
- Be capable of using mathematical models correctly given specific problem situations.
- Think critically and analytically about problems that require mathematical solutions.

Topical Description

Chapter	Topic
1	Arithmetic, Calculators and Problem Solving
2	Sets of Numbers
3	Introduction to Algebra
4	Percents and Problem Solving
5	Introduction to Geometry
6	Measurement and Problem Solving
7	Applications of Percent
10	Statistics
11	Graphs

Notes to Instructors

1. The final exam must be comprehensive and be at least 25% of the total course grade.

Virginia Western Community College

3097 Colonial Avenue, S.W. School of School of STEM Roanoke, VA 24015

(540) 857-7273