

Revised: Fall 2016

MTH 120

INTRODUCTION TO MATHEMATICS

COURSE OUTLINE

Prerequisites:

MTE 1, 2, and 3 or a placement recommendation for MTH 120 or equivalent.

Course Description:

Introduces number systems, logic, basic Algebra, and descriptive statistics. Intended for occupational/technical programs.

Semester Credits: 3 Lecture Hours: 3 Lab/Recitation Hours: 0

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MTH 120: INTRODUCTION TO MATHEMATICS

Course Outcomes

At the completion of this course, the student should:

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

MTH 120 INTRODUCTION TO MATHEMATICS

Required Materials:

Textbook, Calculator

Textbook:

Mathematics--Its Power and Utility, Karl Smith, 10th edition, Cengage, ISBN #: 9781111577421

The following supplementary materials are available:

1. Digital resources available upon request

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<u>Topics</u>	<u>Chapter</u>
I. Arithmetic, Calculators, and Problem Solving	1
II. Sets of Numbers	2
III. Introduction to Algebra	3
IV. Percents and Problem Solving	4
V. Introduction to Geometry	5
VI. Measurement and Problem Solving	6
VII. Applications of Percent	7
VIII. Sets and Logic	8
IX. Probability	9
X. Statistics	10
XI. Graphs	11

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Notes to Instructors

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

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