

Math Models and Applications - Course Syllabus

Description:

This course serves a dual purpose as an introductory course to basic Math concepts and as a refresher course to prepare students for Algebraic concepts. Math Models and Applications provides clear, easy explanations for introductory Math concepts and lays the groundwork for challenging an Algebra 1 course. Concepts discussed are: Addition and Subtraction of Whole Numbers, Multiplication and Division of Whole Numbers, Exponents, Roots, and Factorization of Whole Numbers, Multiplication and Division or Fractions, Decimals, Ratios and Rates, Intro to Geometry, Signed Numbers, Algebraic Expressions.

Textbook: Fundamentals of Mathematics – OpenStax – Creative Commons Attribution 4.0

Course objectives:

Throughout the course, you will meet the following goals:

- Understand the basics of Addition/Subtraction/Multiplication/Division.
- Explore Exponents, Roots, and Factorization.
- Understand Calculations with Fractions
- Exposure to Introduction to Geometry
- Exposure to Introduction to Algebraic Expressions

Contents:

Semester A

Semester A	Semester D
Unit 1: Addition/Subtraction of Whole Nun	nbers Unit 6: Decimals
Unit 2: Multiplication/Division of Whole N	umbers Unit 7: Ratios and Rates
Unit 3: Exponents, Roots, Factorization	Unit 8: Intro to Geometry
Unit 4: Multiplication/Division of Fractions	5 Unit 9: Signed Numbers
Unit 5: Addition/Subtraction of Fractions	Unit 10: Intro to Algebraic Expressions

Somostor B

Grading Scale

Unit Quizzes7	<u>00/</u>
	0/0
Mid-Term and Final Exam 3	0%
10	0%

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A = 90-100%**B** = 80-89% C = 70-79%D = 60-69%F = under 59%