# Basic Mathematics 2 

MTHH 002256
Credits: 0.5 units / 5 hours

## Course Description

This course begins with a review of the topics covered in the first semester of basic mathematics which include basic operations and properties involving whole numbers. Students are then introduced to fractions, operations with fractions and decimals, and problems involving money and percentages. Word problems are used extensively in this course to relate concept to practical situations. Students practice each concept in a step-by-step manner before moving on to more complex topics.

Graded Assessments: 9 Unit Evaluations; NO Projects; 2 Proctored Progress Tests

## Course Objectives

When you have completed the materials in this course, you should be able to:

1. Add, subtract, multiply, and divide fractions and mixed numbers.
2. Add, subtract, multiply, and divide decimals.
3. Solve word problems involving fractions, decimals, or percents.
4. Convert fractions to decimals.
5. Convert fractions and decimals to percents.
6. Estimate answers to addition, subtraction, multiplication, and division of decimals.

## Course Outline

## Unit 1: WHOLE NUMBERS

Lesson 1: Adding and Subtracting Whole Numbers
Lesson 2: Multiplying and Dividing Whole Numbers
Lesson 3: Properties of Whole Numbers
Unit 1 Evaluation

## Unit 2: WHAT IS A FRACTION?

Lesson 4: Meaning of a Fraction
Lesson 5: Working with Fractions
Lesson 6: Improper and Mixed Fractions
Unit 2 Evaluation

## Unit 3: ADDING FRACTIONS

Lesson 7: Simple Addition of Fractions
Lesson 8: Addition of Fractions and Mixed Numbers
Unit 3 Evaluation

## Unit 4: SUBTRACTING FRACTIONS

Lesson 9: Simple Subtraction of Fractions
Lesson 10: Subtraction of Fractions and Mixed Numbers
Unit 4 Evaluation
Review for Progress Test 1

## Unit 5: MULTIPLYING AND DIVIDING FRACTIONS

Lesson 11: Multiplication of Fractions
Lesson 12: Division of Fractions
Unit 5 Evaluation

## Unit 6: WORD PROBLEMS AND COMPLEX FRACTIONS

Lesson 13: Word Problems Involving Fractions
Lesson 14: Complex Fractions
Unit 6 Evaluation

## Unit 7: ADDING AND SUBTRACTING DECIMALS

Lesson 15: Meaning of a Decimal
Lesson 16: Adding and Estimating Decimals
Lesson 17: Subtracting and Estimating Decimals
Unit 7 Evaluation

## Unit 8: MULTIPLYING AND DIVIDING DECIMALS

Lesson 18: Multiplying and Estimating Decimals
Lesson 19: Dividing and Estimating Decimals
Unit 8 Evaluation

## Unit 9: MONEY AND PERCENT

Lesson 20: Money Problems
Lesson 21: Percent
Unit 9 Evaluation
Review for Progress Test 2

Required Textbook and Materials
(available through Follett virtual bookstore at http://highschool.nebraska.bkstr.com)
No Required Textbook

