



Syllabus for General Mathematics

Welcome to MA011, MA012: General Mathematics Part I and General Mathematics Part II

Please read the information in this syllabus before proceeding to the course materials.

Credits: 1 credit hour

Prerequisite: None

Instructional Team

Teacher Contact Information

Leslie Retchko
lretchko@jmhs.com

Our Academic Advisors are also available to help you when you need it. They are trained to provide tutoring in all subjects or answer your questions about the course or program.

Phone: 1-800-224-7234

Hours: 8:30AM – 8:30PM EST Monday-Friday

Textbook

Goetz, B., Smith, G., & Tobey, J. (2011). *Basic mathematics*. Boston etc.: Pearson.

Course Description

The General Mathematics course introduces fundamental math concepts. The topics include whole numbers, operations on whole numbers, fractions, decimals, ratios, rates, and proportions. The focus is on learning the computational procedures and then applying the skills to problem solving in applications. These topics set the stage for the study of percents, measurement conversions, finding dimensions in geometry, computing statistics, and solving algebraic equations. General Mathematics Part I includes four multiple choice lesson exams and a midterm multiple choice exam. General Mathematics Part II includes six multiple choice lesson exams and a multiple choice final exam.

Course Learning Objectives

Upon completion of this course, you should be able to:

- Understand whole numbers and the four basic operations: addition, subtraction, multiplication, and division.
- Understand what a fraction represents and how to add, subtract, multiply, divide and convert fractions.
- Understand what a decimal number represents and how to add, subtract, multiply, divide, and convert decimal numbers.



- Understand how to use ratios, rates, and proportions.
- Understand what a percent represents and how to add, subtract, multiply, divide, and convert percentages.
- Understand and use the U.S. system and the metric system.
- Understand the size, shape, and properties of objects. These properties include the length of sides, angles between sides, perimeter, area, and volume.
- Construct a histogram and find the mean, median, and mode of a data set.
- Understand what a signed number represents and how to add, subtract, multiply and divide signed numbers.
- Organize and solve many real-world problems through the understanding of variable expressions.

Course Lessons

The following lessons are covered in MA011: General Mathematics Part I

Lesson	Read/Submit	Topics
Lesson 1	Chapter 1 Exam 1	Whole Numbers
Lesson 2	Chapter 2 Exam 2	Fractions
Lesson 3	Chapter 3 Exam 3	Decimals
Lesson 4	Chapter 4 Exam 4 Midterm Exam 5	Ratios, Rates, and Proportions

The following lessons are covered in MA012: General Mathematics Part II

Lesson	Read/Submit	Topics
Lesson 1	Chapter 5 Exam 1	Percents
Lesson 2	Chapter 6 Exam 2	Measurement
Lesson 3	Chapter 7	Geometry



Exam 3

Lesson 4	Chapter 8 Exam 4	Statistics
Lesson 5	Chapter 9 Exam 5	Signed Numbers
Lesson 6	Chapter 10 Exam 6 Final Exam 7	Introduction to Algebra