

College Math

8 Modules + 1 Module for Final Exam / Credit-by-Course / Credits 3

Course Description:

College Mathematics is a college-level mathematics course for non-mathematics majors and majors in fields not requiring knowledge of advanced mathematics. In this course, students will become familiar with currently taught mathematics vocabulary, symbols, and notation and will learn to solve both routine problems and non-routine problems that require the application of skills and concepts. The subject matter of this course includes sets and logic, number theory, geometry, algebra and functions, graphs, converting unit measurements and the Metric System, probability, statistics, and financial mathematics.

Course Outcomes:

After completing this course, you will be able to:

- Solve and interpret algebraic equations, inequalities, and functions in numeric, graphic, and symbolic methods.
- Recall and apply the probability and counting rules and definitions.
- Analyze data and statistics in the forms of graphs, charts, and summaries.
- Calculate percentages, percent change in relation to finances, and quantities related to saving and borrowing, such as interest, balance, and payment amount.
- Compare and contrast properties of geometric shapes and lines, including perimeters, areas, circumference, and angles, as well as parallel and perpendicular lines.
- Find relationships within sets, subsets, Venn diagrams, and logic statements and identify the hypothesis and the conclusion of a conditional statement.
- Interpret properties of numbers, including number systems, number theory, and measurement, scientific notation, using prime factorization to find natural numbers.
- Apply mathematic knowledge to both routine (straightforward) and non-routine (real world) problems.
- Convert units of measurement to the Metric System, applying area, volume, capacity, weight, and temperature with geometric shapes and in real world problems.

E-Book:

Title: Math in our World, 5th edition, by Sobecki, David, McGraw-Hill Education.

Open Education Resources (OER's)

If you are struggling with a term or concept, you can utilize the links below to search for the concept or term to find additional resources and explanation.

[Link Removed]

Purple Math Website (<http://www.purplemath.com/>)

Khan Academy Website (<http://www.khanacademy.org>)

IMPORTANT - PRACTICE PROBLEMS (<http://www.kutasoftware.com/freeipa.html>)

IMPORTANT - MORE PRACTICE PROBLEMS (<http://www.ixl.com/math/algebra-2>)

Closed Captioning

Lecture videos and extra resource videos have automatic closed captioning. These captions are generated by computer algorithms. To utilize closed captioning, you can click on the CC button at the bottom of a video.

Accommodating Disabilities

Gateway Education is committed to the belief that every individual should have an equal opportunity in education. Gateway Education seeks to assure access by providing accommodations to individuals with a disability as defined under the Americans with Disabilities Act of 1990 (ADA) and the ADA Amendments Act of 2008 (ADAAA). Accommodation includes, but is not limited to: aids or modification to courses, materials, or testing; and other services that allow better access by individuals with disabilities.

Individuals requesting accommodation should submit a request in writing or in an alternative format appropriate for their limitations. The request should include documentation of the disability, including information with recommendations of appropriate accommodation. Once eligibility has been established, accommodations must be requested on a course-by-course basis.

Requests can sent to the student services department at help@gatewayeducation.com