

# College Algebra

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

## Course Description:

College Algebra is a college-level algebra course for non-mathematics majors. In this course, students will become familiar with currently taught algebraic vocabulary, symbols, and notation and will learn to solve both routine problems requiring basic algebraic skills and non-routine problems that demonstrate their understanding of concepts. The subject matter of this course includes number systems and operations, algebraic operations, methods of solving various equations and inequalities, matrices, sequences and series, and various functions and their properties.

## Course Outcomes:

After completing this course, you will be able to:

- Identify and interpret algebraic expressions, exponents, factoring, absolute value, and properties of logarithms.
- Solve linear and quadratic equations and inequalities.
- Solve systems of linear equations and inequalities.
- Solve exponential, logarithmic, and rational equations.
- Interpret functions and their inverses in forms that include graphs, numerals, and symbols.
- Identify and analyze number systems and their operations including sequences, series, and factorials.
- Identify and interpret properties and determinants of matrices.
- Apply algebraic techniques to both routine (straightforward) and non-routine (real world) problems.

## E-Book:

Title: College Algebra, 3rd edition, by Miller, Julie and Gerken, Donna, 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.

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

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

## 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 be sent to the student services department at [help@gatewayeducation.com](mailto:help@gatewayeducation.com)