

Course Goals and Objectives

Because this course may be taken as part of the General Education requirements, the specific General Education Core Abilities are listed:

- (a) **Thinking:** Students engage in the process of inquiry and problem solving.
- Briefly study the basic ideas of a first algebra course.
 - Solve quadratic equations by factoring, completing the square, and by use of the quadratic formula.
 - Improve the ability to read and solve application problems by means of constructing appropriate algebraic models and then applying algebraic techniques to find a solution.
 - Explore exponential and logarithmic functions, including application problems, and the efficient and appropriate use of logarithms and their properties.
 - Learn the techniques of solving systems of equations and appropriately apply these processes to word problems.
- (b) **Ethical Decision Making:** Students respond to ethical issues, using informed value systems.
- Students will understand how academic honesty in mathematics requires deductive reasoning.
 - Students will understand the need to do their own work, and to honestly challenge themselves to understand the material.
- (c) **Communication:** Students speak and write to suit varied purposes, audiences, disciplines, and contexts.
- Communicate both in writing and orally throughout the course; particular attention will be paid to the accurate and appropriate use of the language of algebra.
 - Use calculators to solve problems, communicate solutions and explore options.
- (d) **Cultural Sensitivity:** Students understand their own and other cultural traditions and demonstrate a respect for the diversity of the human experience.
- Read, write and manipulate mathematical notation.
 - Experience mathematics as a culture of its own, with its own language and modes of thinking.

Americans with Disabilities Act (ADA):

If you have a diagnosed disability and require services or accommodations for this class, please inform me and Jane Eddy, the disabilities (ADA) coordinator (MRC 332; 796-3194) within 10 days to discuss your needs.
