

MAT 117: College Algebra and Problem Solving



Overview

This online college algebra course equips you with the skills to effectively solve problems using algebraic reasoning. What sets this course apart from a standard algebra course is its strong emphasis on the techniques that are used to solve problems. The goal is not to simply teach you mathematical forms but to help you understand the “whys” behind how you are solving problems. Throughout this course, you will be able to participate in discussions with other students and the professor to help build your conceptual understanding of algebra. In this course, you will learn about systems of linear equations, rational functions, quadratic functions, logarithmic functions, general polynomial functions, and exponential functions.

Course Prerequisites and Requirements

To be successful in this course, we recommend English language fluency and computer literacy. We also encourage you to make sure your laptop or desktop computer meets the technical requirements.

What You'll Learn

- How to apply algebraic reasoning to solve a range of problems
- How to identify functions, domains, ranges, intercepts and other critical algebraic concepts
- Skills required for success in future studies in calculus

Transcript

This course appears on your transcript identically to how it appears on the transcript of an enrolled ASU student who has taken the course on one of ASU's campuses.

This course satisfies 3 credit hours toward the Mathematics (MA) General Studies requirement at Arizona State University. It is strongly encouraged that you consult with your institution of choice to determine how these credits will be applied to their degree requirements prior to transferring your credit.

Exams and Grading

Instructor led

18%

ALEKS Topic Goals
& Completion

12%

Active Learning
Assignments

70%

Exams (4)

Self paced

100%

Final Exam

Creator

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Sue McClure is a lecturer in the School of Mathematical and Statistical Sciences at Arizona State University. Educated at Ball State University, Purdue University, and Indiana University, Sue has acquired years of experience teaching courses ranging from high school mathematics to college calculus. Her efforts in the Mathematics Department at Angola High School helped rank the school as one of Indiana's finest high schools, and her interest in educational technologies has led Sue to explore and integrate personalized learning through adaptive mathematics and online education into her courses at Arizona State University.

