Overview
This online precalculus course will teach you the skills required for success in future calculus studies.

About this course
In this college-level Precalculus course, you will prepare for calculus by focusing on quantitative reasoning and functions. You’ll develop the skills to describe the behavior and properties of linear, exponential, logarithmic, polynomial, rational, and trigonometric functions.

This course tailors content and personalizes the learning experience around your skill level, allowing you to achieve mastery in a certain concept before moving on to the next. Utilizing the ALEKS learning system, students in this personalized course - offered as self-paced or instructor-led - will be instructed on the topics they are most ready to learn. Individualized coaching is also provided as you move through each new topic.

Before taking this course, you should already have a strong understanding of algebraic skills such as factoring, basic equation solving, and the rules of exponents and radicals. These algebraic skills can be mastered though the college algebra course.

Required prior knowledge and skills
To be successful in this course, we recommend English language fluency and computer literacy.

To be adequately prepared for this course, a recommended prerequisite course is MAT 117 College Algebra and Problem Solving. The prerequisite course should be taken first to ensure that the course credits will transfer to your institution, including ASU.

Learning Outcomes
- Use basic algebraic operations on numbers, expressions, and equations.
- Solve real-world application problems.
- Apply algebraic and trigonometric reasoning to solve a range of problems.
- Begin future studies in calculus.

Additional Info
Self-paced
Self-paced courses allow students to complete course assignments at their own pace, as long as the course is completed within a year. Self-paced courses are great for:

- Students who want to start right away
- Students who are self-directed and can set and stick to a plan for completing the course
- Students who may want to either go faster or slower than the instructor-paced version
Instructor-led
Instructor-led courses have a structure with weekly assignment due dates, as well as an instructor guiding a student through the curriculum and content. Instructor-led courses are great for:

- Students who prefer a structured timeline with established due dates for assignments
- Students who enjoy interaction with other students, who will be completing assignments at the same time
- Students who are taking their first course online, and may benefit from greater guidance

This course satisfies 3 credit hours toward the Mathematical Studies (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 the credit.

Creator

Dr. Sue McClure
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.