

Course Information

- Semester and Year: Fall 2026
- Course Title: College Algebra
- Course Prefix and Number: MAT151
- Section Number: 18370
- Credit Hours: 3
- Start Date: August 24, 2026
- End Date: October 16, 2026
- Class Format: Online (Exams must be proctored in-person)

Instructor Information

- Instructor: Carla Stroud
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- Phone: (480) 423-6112
- Office Location: CM 424
- In-Person Office Hours: Mon/Wed 12:15 – 1:15 PM
Tuesday by appointment
- Remote Office Hours: Thurs 12:00 – 2:00 PM (by appointment only)

Course Description

Analysis and interpretation of the behavior and nature of functions including linear, quadratic, higher-order polynomials, rational, exponential, logarithmic, power, absolute value, and piecewise-defined functions; systems of equations, using multiple methods including matrices, and modeling and solving real world problems.

Prerequisites and/or Corequisites

A grade of C or better in MAT114, or MAT115, or MAT12+, OR an appropriate district placement for MAT15+, OR permission of Department or Division Chair.

Course Competencies

1. Calculate and interpret the average rate of change in varied contexts, using function notation including the difference quotient.
2. Define, distinguish, and interpret the relations and functions and their inverses represented verbally, graphically, numerically, or algebraically.

3. Evaluate functions, including composition, and solve function equations and inequalities using multiple methods.
4. Set up, solve, and interpret the meaning of solutions of systems of linear equations using multiple methods, including matrices where appropriate.
5. Identify, graph, analyze, and determine the key characteristics of the following function types and their transformations: linear, quadratic, higher-order polynomial, power, radical, rational, exponential, logarithmic, absolute value, and piecewise-defined.
6. Model real world situations using a variety of mathematical techniques (including regression) and solve real world mathematical problems using functions.

General Education & Institutional Learning Outcomes

General Education provides foundational learning experiences that contribute to academic and career success. It is reflected in [Scottsdale Community College's Institutional Learning Outcomes](#): Arts & Humanities Awareness, Career Readiness, Critical Thinking and Problem Solving, Effective Communication, Information Literacy, and Social Responsibility. Students who take MAT151 will learn to apply algebraic concepts using Critical Thinking and Problem Solving to analyze functions, interpret graphs and data, and model real-world situations. They will also strengthen Effective Communication by clearly explaining mathematical ideas, supporting conclusions with evidence, and interpreting quantitative information in multiple formats.

Program Learning Outcomes

Credit-bearing courses at Scottsdale Community College can count toward the completion of a degree or certificate program. Each program has Program Learning Outcomes, which are learned assets that students can claim to have acquired by completing their academic or occupational program at SCC. Program Learning Outcomes can be found on the [Degrees and Certificates page](#) of the SCC Website. For each degree, look under “What You’ll Learn.”

This course is a General Education course that is foundational to many degree programs and a key component of the [Arizona General Education Curriculum \(AGEC\)](#) certificate program. This course fulfills a mathematics requirement for the AGEC (for Liberal Arts majors).

Texts and Course Materials

Textbook: *College Algebra*, Scottsdale Community College Edition, Jay Abramson, copyright 2017 Rice University. The textbook is not required in this course. Students can view the textbook online for free from the MOER website.

Workbook: *College Algebra Student Workbook*, Carla Stroud, copyright 2021. The workbook is strongly recommended and is available for free from the MOER website or students may pick up a free printed copy of at the SCC Math Center (contact me for more information).

Calculator: A graphing calculator is **required** for this course. A TI-83, TI-83+, or TI-84 are recommended. Calculators with QWERTY keyboards or those that do symbolic algebra (such

as the TI-92, TI-89, TI-Nspire) are NOT allowed. Your cell phone may NOT be used as a calculator on an exam.

Online Course Learning Management System: This course uses [MOER](#) as the learning management system. The syllabus, schedule, announcements, assignments, grades, and course materials will be available through MOER. **Students who do not create a MOER account by the end of the first day of class will be withdrawn** from the course. Login instructions are available in Canvas.

Course Policies

The following are policies specific to this course. Students are also responsible for the college policies included on the [Student Regulations](#) page of the Maricopa Community College District website.

Withdrawal Policy: In an 8-week class, students may withdraw without instructor permission through the 20th calendar day. Students can request permission from the instructor to be withdrawn from the course through the 41st calendar day. These official dates and deadlines are posted on the [SCC Dates and Deadlines](#) website. If a student withdraws or is withdrawn from the course, the instructor is required by law to report last day of attendance (LDA). This date is based on submitted coursework.

Technology Responsibility: Students are expected to have regular access to a computer or device with internet connection to complete online assignments. Students are responsible for completing all assignments on time regardless of any computer issues that may occur. SCC has computers available for student use in the math center and library.

Course Grading Policy: The final exam date serves as the final deadline for all coursework submissions. Exam scores are final, and extra-credit is not offered. Discussions about how the exam is graded will not be discussed via email. Instead, students are encouraged to meet with the instructor to review their exam performance. Final course grades are calculated using the scale listed in the syllabus (rounded to the nearest percent) and are non-negotiable. It is unethical for a student to request their final percentage be rounded up to earn their desired grade.

Academic Dishonesty: If academic dishonesty is suspected, students may be asked to explain their solution method, complete a similar problem, or redo the exam. The use of unauthorized technology or outside assistance during an exam constitutes academic dishonesty and will result in a score of 0 on the exam, which will result in the inability to pass the course.

Emergency Documentation: Students who miss an assignment or exam deadline due to an emergency must contact the instructor as soon as possible (for exams, on or before the missed exam is the expectation) and provide documentation within 2 days. Late penalties may be waived at the instructor's discretion. Submitting fake, altered, or misleading documentation (e.g., a falsified doctor's note) is a form of academic dishonesty. Students who submit falsified

documentation will receive a 0 on the exam (resulting in their inability to pass the class) and the incident may be reported under the college academic integrity policy.

Attendance Policy

Attendance in an online course involves consistent progress on course assignments in accordance with the deadlines posted in MOER. This is not a self-paced class. Students who fall more than **one week behind** the schedule or who **miss the first exam** may be withdrawn without notice.

Instructional Contact Hours and Minimum Course Expectations

Instructional contact hours are the weekly time students spend directly learning with their instructor or course activities. These activities include, but are not limited to, lectures, discussions, labs, group work, and viewing recordings. Instructional contact hours vary by course; refer to the [MCCCD course bank](#) for your course's details.

Minimum course expectations include the number of hours students are expected to spend outside of class (weekly) completing coursework. Students are encouraged to use the [Time Management Calculator](#) to help estimate their weekly time commitment for classes. In a four credit-hour course completed in 8-weeks, students should plan to spend about 23 hours each week on coursework.

Course Technologies

View the [Accessibility Statements & Privacy Policies](#) of the technologies used in this course. The [SCC Help Desk](#) provides students with a primary point of contact within SCC for college-supported technology services and technical assistance.

Maricopa Systems

This course uses key Maricopa systems for course management and communication.

- Canvas Learning Management System
- Student Maricopa Gmail Account
- Maricopa Open Educational Resource Learning System (MOER)

Streaming Media/Audio/Video Tools

This course uses webcasting, lecture capture systems, YouTube, and/or other streaming media services.

- YouTube

Generative Artificial Intelligence (AI) Policy

The World Economic Forum defines generative AI as “a category of artificial intelligence (AI) algorithms that generate new outputs based on the data they have been trained on. Unlike traditional AI systems that are designed to recognize patterns and make predictions, generative AI creates new content in the form of images, text, audio, and more.”

Some examples of generative AI tools include but are not limited to: ChatGPT, Google Gemini, Microsoft Copilot, Stable Diffusion, GrammarlyGo, and Adobe Firefly.

No Generative Artificial Intelligence (AI) Allowed

In this class, all work submitted must be your own. The use of generative AI tools will be considered academic misconduct (see Administrative Regulation 2.3.11 1.B(b)) and will be treated as such. If you are unsure if the tool or website you are using is a generative AI tool, please contact the instructor for further clarification before using the tool or website.

Grading Standards and Practices

Grade Scale

Table 1 Course Grading Scale

Letter Grade	Points Range
A	90 – 100%
B	80 – 89%
C	70 – 79%
D	60 – 69%
F	0 – 59%

Grade Categories

Table 2 List of Grade Categories

Category Name	Percent of Grade
Video Assignments	5%
Homework	10%
Quizzes	15%
Midterm Exam	35%
Final Exam	35%

Video Assignments: The Video Assignment is your direct instruction on the content and includes videos along with online questions. You will have three attempts per question and can then generate a new version of the question.

Video Assignment Notes: The Video Assignment Notes are available in the workbook and online in MOER. It is strongly recommended that students complete the notes while watching the videos. Students will not be submitting the assignments notes for a grade.

Homework: The Homework allows you to practice the material you learned while completing the Video Assignments. Write down your work and make note of any questions you have. Questions can be posted to the FAQ forum for the instructor or classmates to answer. You will have three attempts per question and can then generate a new version of the question.

LatePasses: LatePasses can be used on Video Assignments and Online Homework. Any problems completed during the LatePass extension will result in a 20% penalty. LatePasses can be used on Video Assignments and Online Homework. One LatePass will extend the due date for 24 hours (so to complete an assignment 4 days late, you will need to use 4 LatePasses). There is no penalty for using a LatePass, however students will **only receive 100 LatePasses**. Students that use up their LatePasses will need to message the instructor to have assignments extended with a 20% penalty.

Quizzes: Quizzes give you the opportunity to demonstrate understanding of the material. Each question includes two attempts, with a 30% penalty on the second attempt. Students may retake up to two quizzes to improve their scores by requesting a quiz redo from the instructor. Practice quizzes are optional but highly recommended and may be taken multiple times. **Note, LatePasses many NOT be used on quizzes.**

Exams: The Midterm Exam covers Section 3.1 – 5.3 and the Final Exam covers all sections. Students must show written work when indicated on the exam. Exams must be completed by the deadlines listed in MOER. Students that miss an exam deadline may take the exam up to 3 days late but can only earn a maximum score of 70%.

Exams will be proctored at the SCC campus (details available in MOER). **Exams must be proctored in-person.** If you are unable to take the exam during the scheduled time at the SCC campus, then you may use the SCC testing center (free) or a certified testing center or college near you (fees apply). Students will need to indicate how they plan to take the in-person proctored exams in an MOER assignment at the start of the semester. Requests to change an in-person testing location must be approved by the instructor **at least one week before the exam**. Students who do not secure an approved in-person testing center in time or who fail to follow exam instructions will receive a score of 0.

Students may not use unauthorized technology during exams, including both online and physical devices. Students may be asked to remove and securely store smart watches, smart glasses, or any other device with advance technology before or during the exam.

Student/Instructor Interaction

In this course, you can expect regular and substantive interaction (RSI) that aligns with Scottsdale Community College's mission to provide challenging and supportive learning

experiences and the US Department of Education's requirement for regular and substantive interaction (RSI) for online courses. My commitment to your success includes the following:

- Being available during regularly scheduled office hours as stated in the syllabus.
- Providing regular updates and information about the course, campus events, resources, tutoring services, and opportunities.
- Promptly responding to student questions about the course sent via email, MOER messaging, or the Canvas inbox.
- Monitor student academic progress and communicate concerns, as needed.

Response Time

Students can expect the instructor to respond to messages within 24 hours Mon-Thurs and 48 hours Fri-Sun. These response times do not apply to holidays or after the course end date. Online lessons, homework, and quiz assignments will be graded immediately in MOER and other assignments and exams will be graded within 5 days of the due date.

Tutoring

The Math Center offers **in-person** and **remote** tutoring to students who are currently enrolled in mathematics courses at SCC. Visit the [Math Center](#) page for more information.

If you need to work with a tutor outside regular hours, online and hybrid students now have access to a 24/7 online tutoring service called Brainfuse. To access Brainfuse and begin working with a tutor, visit the [SCC Online Tutoring Services Through Brainfuse](#) page.

MCCCD Policies

MCCCD is committed to providing a safe, fair, and accessible environment for all students. This includes laws such as the ADA and Title IX, which protect against discrimination. These statements explain your rights, available support, and where to go for help or more information. Please review the following policies:

Classroom Accommodations for Students with Disabilities

In accordance with the Americans with Disabilities Act (ADA), the Maricopa County Community College District (MCCCD) and its associated colleges are committed to providing equitable access to learning opportunities to students with documented disabilities (e.g. physical, sensory, neurological, chronic illness, mental health, learning disabilities, or other health concerns). If you require accommodations for this course, please contact [Disability Resources and Services](#) (DRS) at your college.

Contact with [DRS](#) should be made as soon as possible to ensure academic needs are met in a reasonable time. Additional information can be found in the [Non-Discrimination Statement](#) and [MCCCD Non-Discrimination Policies](#).

[Addressing Incidents of Title IX Sexual Harassment](#)

Students are responsible for the information contained in this syllabus, the Syllabus page in your Canvas course and the **College Policies & Student Services** page found in the First Steps module of your Canvas course. Students will be notified by the instructor of any changes in course requirements or policies.