

Scottsdale Community College (SCC) credits the diverse Indigenous people still connected to the land on which we gather. Our college resides on the ancient lands of the Huhugam, ancestors to the O’odham and tribal territory of the Salt River Pima-Maricopa Indian Community (SRP-MIC). SRP-MIC is a federally recognized tribe - one of 22 Arizona Indigenous tribes and one of 575 across the United States. Attached to this physical space is a painful history of forced removal and the resulting intentional genocide of its Indigenous people. We remain appreciative of our ability to teach, learn and serve in a space of such importance and reverence.

SCC acknowledges the land on which we are situated today as the traditional land and home of two distinct tribal nations: the Onk Akimel O’odham (Pima) and the Xalychidom Piipaash (Maricopa). We take this opportunity to thank the original caretakers of this land, the Huhugam. We offer our respect to all O’odham and Piipaash of the past, present and future.

Syllabus

Course Information

- Semester and Year: Fall 2026
- Course Title: College Mathematics
- Course Prefix and Number: MAT 141
- Section Number: 18546
- Credit Hours: 4
- Start Date: August 24th, 2026
- End Date: December 18th, 2026
- Class Format: Online

Instructor Information

- Instructor: Dr. Gabriel Tarr
- Email: gabriel.tarr@scottsdalecc.edu
- Phone: 4804256746
- Office Location: CM 419
- Office Hours: Monday and Wednesday 1:00 PM – 2:30 PM
Tuesday and Thursday 2:00 PM – 3:00 PM

Note: All dates and times in the syllabus are in Mountain Standard Time. Please keep this in mind if you will be traveling this semester.

Course Description

Working knowledge of college-level mathematics and its applications to real-life problems. Emphasis on understanding mathematical concepts and their applications. Topics include proportional reasoning, modeling, finance, probability, and statistics.

Prerequisites and/or Corequisites

An appropriate District placement, or a grade of C or better in (MAT052, MAT053, and MAT055), or (MAT055, MAT056, and MAT057), or MAT085, or MAT09+, or MAT103, or MAT114, or MAT115, or MAT12+.

Course Competencies

1. Solve contextual problems using proportional reasoning and dimensional analysis. (I)
2. Demonstrate evidence-based decision making. (I-V)
3. Evaluate the reasonableness of an answer in the context of the problem. (I-V)
4. Demonstrate fluency with formulas, including evaluating and isolating variables. (II-V)
5. Model data using linear and exponential (and optionally other) equations. (II)
6. Compute and interpret empirical and theoretical probabilities and expected value of events. (III)
7. Calculate, display and interpret measures of central tendency, variability and position. (IV)
8. Use the Standard Normal Distribution to solve problems concerning normally distributed data. (IV)
9. Solve finance problems including loans, amortizations, investments. (V)

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. In MAT 141, the focus will be on developing students' critical thinking and problem solving.

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

Required Texts: College Mathematics, Scottsdale Community College, 5th edition OER, ISBN: 979-8-88672-003-7. You can find a PDF of the book in MOER. There is no requirement to purchase a physical copy of the book, but you may find it to be beneficial.

Online Course Management System: This course uses MOER, an Online Course Management System developed by David Lippman and the State of Washington. All of the Online Homework will be accessed through this system. Grades will also be posted through this system. The software is free to use and can be accessed here at moer.maricopa.edu. Failure to enroll in MOER and complete the required syllabus quiz by the due date will result in being withdrawn from the course.

Course ID: 24066

Enrollment Key: 18456

Calculator Requirement: A graphing calculator or graphing calculator app is required for this course. The instructor strongly recommends a TI-83/84. Calculators with QERTY keyboards or those that perform symbolic algebra (such as the TI-92/TI89) are not allowed. You are expected to bring your calculator to each class session. Your cell phone may NOT be used as a calculator on your exams. The SCC Media Center will rent calculators this semester on a first-come basis. Go to the Media Center located in the Information Technology (IT) Building to rent a graphing calculator. Rentals are first-come, first-served and there are limited quantities.

Computer Access, Webcam, Microphone, and Email: You will need regular access to a computer with online capabilities in order to complete online assignments.

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.

Withdrawing from the Course: If it becomes necessary to withdraw from the course, you should speak with admissions office and fill out the proper forms there. There is a last day to withdraw without an instructor's signature. It is not guaranteed that you will be able to withdraw from the course after this date.

Email and Contacting the Instructor: It is HIGHLY inappropriate for your family members, guardians, private tutors, former teachers, or any other third-party actors to contact your instructor to discuss anything related to your academic standing in this class. The instructor is more than happy to discuss your academic standing with YOU (the student), but emails, messages, and phone calls from third-party actors on your behalf will not receive a response (except in extreme circumstances as determined by the instructor). In certain cases, these third-party actors may be blocked from contacting the instructor.

Attendance Policy

Any student who falls more than 7 days behind in the course material may be withdrawn from the course.

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.

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)

Synchronous Communication Tools

This course implements the use of web conferencing and/or other synchronous course tools.

- Zoom (for optional office hours)

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	Percentage Interval
A	At or above 90%
B	80 – 89.9999%
C	70 – 79.9999%
D	50 – 69.9999%
F	Below 50%

Grade Distribution

Exams (60% of the course): Your exams are meant to test your PERSONAL mathematical aptitude of topics covered prior to each exam in this class, but occasionally you will be required to draw from your PERSONAL aptitude in topics covered in pre-requisite courses, your real-life experiences, and common sense. You will be allowed one 8.5-inch by 11-inch sheet of paper that contains notes for each exam. You may use both sides of the sheet.

The midterm will focus on the content from Chapter 1 through Chapter 6. **The midterm must be completed by Friday, October 16th, at 11:59 PM.** The final will focus on the content from Chapter 7 through Chapter 11. **The final must be completed by December 18th, at 11:59 PM.**

Exams in this course must be taken proctored. You have multiple options for this.

Both exams must be taken in a proctored environment. You have three options for taking exams. **Option 1 is the preferred choice.**

Option 1: In-Person at SCC (location TBD) during the proctored exam time on Wednesday October 14th from 4:00 PM – 6:00 PM (Arizona Time) for the midterm and Wednesday December 16th from 4:00 PM – 6:00 PM (Arizona Time) for the final.

Option 2: In-Person at the SCC Testing center or Math Testing Lab. Contact me through email or MOER so I can set it up for you to make an appointment. You must contact me for this option by October 7th at 5:00 PM (Arizona Time) for the midterm and by December 9th at 5:00 PM (Arizona Time) for the final. If you do not let me know by this deadline, then you will need to use option 1.

Option 3: In-Person at a certified non-SCC Testing Center. There may be proctoring fees required. The student is responsible for all fees associated with this option. For this option, **you** must determine **all** relevant contact information for the testing center and email me this information. To ensure I have enough time to verify the testing center and submit the exam materials to the proctor, you must contact me for this option by October 7th at 5:00 PM (Arizona Time) for the midterm and by December 9th at 5:00 PM (Arizona Time) for the final. If you cannot find a certified testing center or the testing center/proctor cannot be verified for whatever reason, then you will need to use option 1 or option 2.

There is no option for ProctorU this semester.

Make up exams will only be granted under extreme circumstances. You should meet with your instructor AT LEAST TWO WEEKS BEFORE THE SCHEDULED EXAM to discuss arrangements. This discussion must take place BEFORE the scheduled date of the exam. Failure to adhere to this policy may result in a 0 for the exam and withdrawal from the course.

Homework (25% of course grade): You will be expected to complete regular homework assignments using MOER. Assignments and due dates will be posted in MOER. It is to your benefit to keep up, however, if you miss a due date, you have 255 late passes that you are able to use with no penalty to your homework grade. Each late pass only extends the due date for 24 hours, so that 255 goes quickly if you fall too far behind.

Homework Quizzes (15% of course grade): Regular homework quizzes will be due a few days after the corresponding homework. Please note that you will only have two attempts per each question with the second attempt being worth a maximum of 70%.

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.
- Promptly responding to student questions about the course sent via email, MOER messaging, or the Canvas inbox.
- Monitor your academic progress and communicate concerns, as needed.

Response Time

Students can expect a response time of **24 hours** for the instructor to respond to messages sent via the Canvas Learning Management System or @maricopa.edu email. Students can expect assignments to be graded within **one week** of the assignment's due date. These times do not include weekends, district holidays, or breaks.

Tutoring

SCC's tutors are available online to help with your courses. You may work with an SCC tutor remotely using Google Meet, your phone, or email. Visit the [Tutoring & Learning Centers](#) page for detailed information on the five learning centers' hours and procedures.

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 the Canvas course, and the College Policies & Student Services page located under SCC Student Resources in the Canvas course navigation menu. The instructor will notify students of any changes to course requirements or policies.