

Syllabus

Course Information

- Semester and Year: Fall 2026
- Course Title: College Mathematics
- Course Prefix and Number: MAT140
- Section Number: 18499
- Credit Hours: 5
- Start Date: 9/8/2026
- End Date: 12/18/2026
- Class Format: Online

Instructor Information

- Instructor: Tracey Baurichter
- Email: tracey.baurichter@scottsdalecc.edu
- Phone: 480-423-6776
- Office Location: CM 422
- Office Hours: Tuesdays from 12:00 – 1:30 pm,
Thursdays from 9:00 – 10:30 am,
Online office hours are Mondays from 9 – 11 am.

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.

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)

5. Compute and interpret empirical and theoretical probabilities and expected value of events. (III)
6. Calculate, display and interpret measures of central tendency, variability and position. (IV)
7. Use the Standard Normal Distribution to solve problems concerning normally distributed data. (IV)
8. 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 140, 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

College Mathematics, Scottsdale Community College, 5th edition OER. A digital copy of the textbook can be accessed for free on the course website in MOER. If you would like a printed copy of the textbook, it can be purchased using this [link](#).

This course uses MOER, a free Online Course Management System. All of the online assignments will be accessed through this system. Grades will also be posted through this system. The software is free to use and can be accessed at <https://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.

A graphing calculator is required for this course. The instructor strongly recommends a TI-84+ (a TI-83+ is acceptable). Calculators with QWERTY keyboards or those which do symbolic algebra (such as the TI-92 or TI-89) are NOT allowed. You are expected to bring your graphing calculator to each exam. Your cell phone may NOT be used as a calculator during quizzes or exams. Sharing of calculators during quizzes or exams is NOT permitted. Calculators are available for rent on a first come, first served basis in the Media Center of the IT building for \$10 per semester.

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.

General Conduct Policy

Students are expected to conduct themselves in a responsible, mature, and academically honest manner. Be honest in everything you do. Do not present someone else's work as your own, including work that you find on other Internet sites or through AI. Any student caught violating these policies on an assignment/exam will receive a grade of zero for that assignment/exam and will be subject to disciplinary action, including a report to the College and possible class withdrawal, in accordance with SCC policies.

Class Drop Policy

If you realize right away that this class is not for you, you will need to drop the class as soon as possible in order to receive a full refund. Check the Academic Catalog (<https://www.scottsdalecc.edu/catalog>) for these important dates. You are responsible for dropping within the appropriate window to obtain a refund if you decide that is what you want to do.

Your instructor may drop you from the class for failing to complete required orientation assignments on time. Create your MOER account and check your MOER course calendar for details related to orientation assignments for this class.

Class Withdrawal Policy

This is not a self-paced class. You have assignments and due dates and must make regular and consistent progress on course work and assignments. *Students that stop participating (fall more than 1 chapter behind) and fail to respond to instructor MOER communication may be withdrawn from the class. Students that miss Exam deadlines may also be withdrawn.*

Students can request to withdraw from this class (with a grade of W) at any time prior to Monday, November 23rd.

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 upon actual work that is submitted and/or communication with the instructor about the class.

Attendance Policy

Attendance in an online class means checking in to MOER and completing assignments and other work on time or ahead of schedule. *Students who do not complete any assignments over the course of an entire chapter may be withdrawn from the course for non-attendance. In addition, failure to work in the course in MOER for 7 consecutive days may result in being 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. For this 14 week, 5 credit class, expect to spend at least 5 hours weekly on instructional contact hours.

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. For this 14 week, 5 credit class, expect to spend at least 10 hours weekly completing online assignments.

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.

- Student Maricopa Gmail Account
- Maricopa Open Educational Resource Learning System (MOER)
- Note that Canvas is not utilized in this course other than to provide access to college resources and information

Synchronous Communication Tools

This course does not have a synchronous component. If you meet with your instructor, you may be asked to utilize one of the technologies below:

- WebEx or Google Meet

Streaming Media/Audio/Video Tools

This course delivers video lectures through YouTube, and/or other streaming media services.

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.

Academic Integrity Violation and Penalties

If it is determined by the instructor that a student has used AI or other resources that are not allowed during an assignment or an exam, the incident will be reported to the College, and the student will receive a 0 on the assignment and/or be required to complete the assignment or exam at an in-person proctored setting on paper.

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

Your final grade will be determined by the following graded events:

Interactive Lessons	5%
Mini Lessons	5%
Online Homework	15%
HW Quizzes	15%
Exams (Midterm and Final)	60% (30% each)

Interactive Lessons: For most chapters, you will be expected to complete an Interactive Lesson, prior to starting the material in that chapter. The Interactive Lesson is designed to review concepts that will be helpful when learning the new content in each chapter. No late lessons are accepted. Interactive Lessons are worth 5% of your final course grade.

Mini Lessons: For each chapter, you are expected to read the chapter, and work through the entire mini lesson in MOER. This will help you learn the material, and prepare you for the homework assignments. No late lessons are accepted. Mini lessons are worth 5% of your final course grade.

Online Homework: You are expected to complete weekly homework assignments. These assignments are completed online using MOER. It will benefit you to write out the homework problems, and show your work. Assignments and due dates will be posted in MOER. The Online Homework is worth 15% of your final course grade. **No make-up homework or late homework will be accepted, but the lowest 2 homework scores will be dropped.**

Homework Quizzes: End of chapter homework quizzes will be taken in MOER each week over each chapter and will cover the material you practiced in your homework assignments. They are worth 15% of your final course grade. Quiz dates will be announced in MOER. **No make-up quizzes will be given, but the 2 lowest homework quiz scores will be dropped.**

Exams: There will be 2 exams in the course, each worth 30% of your grade (for a total of 60%). The exams will be **in person on the SCC Campus**. Exam dates, times, and locations are posted on the MOER calendar. If you cannot attend the date/time/location of the exam, you must contact your instructor *AT LEAST ONE WEEK IN ADVANCE* to agree upon alternative *IN PERSON* exam proctoring arrangements. If you have an emergency on exam day, contact your instructor immediately. Make up exams will only be granted in extreme circumstances, with documentation of the emergency. Exams not taken on the regularly scheduled date/time may be assessed a late penalty of 20%, or may be given a score of 0, depending on unique circumstances. Any exams not completed by 3 days past the original due date will be given a score of 0, even in the case of a documented emergency on exam day.

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 for help by appointment.
- Sharing weekly information about the course materials, including key information, explanations, examples, and resources via recorded, and/or text-based lectures.
- Engaging in discussions about course content within forums in MOER.
- Promptly responding to student questions about the course sent via email, or MOER messaging.
- Regularly posting announcements about the course content and activities.

Response Time

Students can expect a response time of **24 hours** for the instructor to respond to messages sent via MOER, the Canvas Learning Management System or @maricopa.edu email. This includes business days only (M-F). Students can expect assignments to be graded within **one week** of the assignment's due date.

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.

Free tutoring, calculator assistance, and computers are available through the Math/Science Tutor Center (<https://www.scottsdalecc.edu/students/tutoring/math>). You will need to know your SCC student ID number in order to sign in.

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 information found in the **SCC Student Resources** page of your Canvas course. Students will be notified by the instructor of any changes in course requirements or policies.