



Course Information

- Semester and Year: Summer 2026
- Course Title: Brief Calculus
- Course Prefix and Number: MAT212
- Section Numbers: 10609
- Credit Hours: 3
- Start Date: May 26, 2026
- End Date: June 25, 2026
- Course Format: Online

Instructor Information

- Instructor: Paniz Tavassoli
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- Phone: 480-423-6015
- Office Location: CM-427
- Office Hours:
 - By appointment (Google Meet link posted in MOER): please send me an email stating time availability and topics to discuss

Course Description

Introduction to the theory, techniques, and applications of the differential and integral calculus of functions with problems related to business, life, and the social sciences. Note: Students may receive credit for only one of the following: MAT212 or MAT213.

Prerequisites and/or Corequisites

Grade of "C" or better in MAT 15x, or MAT187, or an appropriate district placement.

Course Competencies

1. Find derivatives of functions using both the definition and theorems. (I)
2. Use the derivative to solve and analyze application problems related to business, life, and the social sciences. (II)
3. Use technology to model, solve, and analyze problems related to real-world applications. (II, IV)
4. Find the integral of functions using theorems. (III)
5. Use the integral to solve and analyze application problems related to business, life, and the social sciences. (IV)

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 MAT212 – Brief Calculus will develop critical thinking and problem-solving skills by analyzing functions, applying derivatives and integrals to real-world situations, interpreting graphical and numerical information, and using quantitative reasoning to solve problems related to business, life sciences, and social sciences. Students will also strengthen effective communication skills by clearly explaining mathematical reasoning using symbolic, graphical, numerical, and written representations. Additionally, students will build career readiness through the use of mathematical technology and analytical tools to model, solve, and interpret applied problems.

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 most directly applies to degree pathways and transfer programs requiring quantitative reasoning and applied calculus, particularly in business, life sciences, and social sciences, with the following Program Learning Outcomes:

- Apply calculus concepts and quantitative reasoning to analyze and solve real-world problems.
- Interpret and evaluate graphical, numerical, symbolic, and functional representations of data and mathematical models.
- Utilize mathematical technology and analytical tools to model, solve, and analyze applied problems.
- Communicate mathematical reasoning and solutions clearly using appropriate mathematical, graphical, and written methods.

Texts and Course Materials

Textbook: *Business Calculus* by Callaway, Hoffman, and Lippman, copyright 2013. The textbook is not required as students can view the book as a pdf file for free from the MOER website.

Workbook: *Brief Calculus Student Workbook*, Carla Stroud, copyright 2024. The workbook is **strongly recommended**. Students can download and print the workbook for free from the MOER website.

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

Computer Access: Students will need regular access to a computer with reliable internet connection to complete online assignments. ***Students are responsible for completing all assignments and exams on time regardless of any computer issues that may occur.***

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. This syllabus is subject to change as needed to accommodate the needs of the class.

Attendance Policy

Attendance in an online course involves consistent and regular progress on course assignments. This is not a self-paced class. Refer to the Calendar in MOER for the assignment submission schedule. Students that fall **one week behind** the Calendar schedule may be withdrawn from the class without notice. Additionally, Students who miss the first exam may be withdrawn without notice.

Withdrawal Policy

Please note that every instructor is allowed to write and implement their own withdrawal policy. Do not assume that my policy will be the same as that of other instructors or that theirs will be the same as mine.

Students who do not create a MOER account by the end of the first day of class will be withdrawn from the course. The withdrawal dates for your specific class can be found in My.Maricopa.edu, Student Center under *My Class Schedule*. You are responsible for dropping within the window to obtain a refund. If you choose to withdraw from class after the refund date, it is your responsibility to complete the appropriate procedure by the designated deadline to receive a "W". If you wish to withdraw beyond this deadline, you will need my signature and may receive a "W". **I am unable to assign a "W" after June 17th, in accordance with college policy. This policy is non-negotiable.**

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.

This is a 3 credit-hour course in 5 weeks. Students should expect to spend a minimum of 27 hours each week working on the required online assignments. Students are encouraged to use the [Time Management Calculator](#) to help estimate their weekly time commitment for classes.

Course Format

The format for this course is a 5-week, On Your Time Online class. **Canvas will not be used for this class.** On Your Time Online classes do not meet at specific class times. Coursework must be completed according to deadlines. In this class, exams must be proctored in-person unless an exception is requested and approved in advance.

Assignment types

Online Lesson: The Online Lesson is your direct instruction on the content. Online Lessons are set up like an interactive textbook - read through the text and examples, watch the videos, and complete the problems. You will have unlimited attempts at each question. It is recommended that students use the Brief Calculus Workbook to take notes while completing the online lessons.

Homework: The Homework is your opportunity to practice the material you learned while completing the Online Lesson. Write down your work and make note of any questions you may have. Questions can be posted to the FAQ forum for the instructor or other students to answer. You will get three attempts at each question and will have to try a new similar question to try to get full credit.

LatePasses: LatePasses can be used on the Online Lessons and Online Homework assignments. 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. Additionally, **lessons and homework can only be extended until the corresponding exam**.

Quizzes: The Online Quiz gives you the opportunity to demonstrate your understanding of the material. You will have two chances per question, with a 30% penalty on the second attempt. You will have the opportunity to retake two quizzes in an attempt to improve your score. Students can message the instructor requesting to use a quiz redo. The practice quizzes are optional but highly recommended and can be taken multiple times. **Note, you can NOT use a LatePass for the Online Quizzes.**

Exams: There are two exams for this course, and both exams must be taken to earn a grade in the class. Exams must be completed by the deadlines listed in MOER. Students that miss an exam deadline may take the exam up to 2 days late, but they can only earn a maximum score of 70%. **Past this deadline, the assigned grade will be 0%.**

Proctoring Options for Exams

Option 1: Instructor-Proctored Exam (Recommended and Free)

Exams will be given in person on the SCC campus. Dates will be posted in MOER. Bring your calculator, pencils, erasers, and photo ID with you when you come to take these Exams. You will need to know your MEID (not your student ID), and password to be able to log in to school computers. This is the same password as you use to log into your school Gmail account. You will also need to know your MOER username and password to access our class.

Option 2: SCC Testing Center (Free) or Other Community College Testing Centers

If you are unable to take an exam at these scheduled times on the SCC campus, you can take the exam in person at the **SCC Testing Center or a certified testing center or college near you (fees apply)** on or before the due date. The SCC Testing Center is free and by appointment only (no walk-ins). Contact the instructor for more information. Arrangements for the Testing Center must be made by the instructor **at least one week in advance** of the scheduled exam. Here is a link to the [SCC](#)

[Testing Center Website](#) for more information. You will need to know your MEID and password to be able to log in to school computers.

Option 3: Online via ProctorU (Fees apply) **only in exceptional circumstances**

ProctorU is NOT free and students pay all of the associated fees. You can use an online proctoring service called **ProctorU** to take these exams remotely on or before the due date. ProctorU allows test-takers to take a supervised exam on demand or by appointment. **You should contact me at least one week in advance and provide the reason, along with any supporting documentation, to be considered for this option.** Please note that ProctorU is a third-party company, and I am unable to assist with technical or account-related issues that may arise while using their service. Additionally, VPN services may not work properly with the ProctorU platform.

ProctorU fees vary based on how far in advance your session is scheduled. During the testing session, you will be supervised live through a webcam and the proctor will have access to your computer using screen sharing technology as you take your exam. **Please note that ProctorU requires a room scan prior to all testing sessions.** If the room scan is not acceptable to the student, then other arrangements besides ProctorU must be made.

Students must [create an account](#) with ProctorU and [download the Guardian Browser](#) onto a personal computer. You should [test your equipment](#) before taking the exam to ensure no difficulties will arise on exam day. For your reference, read the [System Requirements for ProctorU](#) and [ProctorU Terms of Service](#). ProctorU is a fee-based service. [ProctorU - Test-Taker Information](#) [Student Guide](#)

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.

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

Synchronous Communication Tools

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

- Google Meet
- Microsoft Whiteboard

Streaming Media/Audio/Video Tools

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

Student Assignment Tools

This course requires students to participate in or submit assignments using desktop or cloud-based applications.

- Google Products
- Microsoft Office 365
- Adobe Creative Cloud

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

Figure 1- Grade Scale

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

Assignments

Figure 2- Assignments

Assignment Name	Percent of Grade
Online Lessons	5%
Homework	10%
Quizzes	15%
Chapter 2 Exam	35%
Chapter 3 Exam	35%
TOTAL:	100%

Grading Policy

Grades in this course are calculated strictly based on the points you earn. *I do not add extra points, round up, or adjust grades at the end of the semester under any circumstances.* This policy is **non-**

negotiable. Please note that I reserve the right not to reply to emails requesting changes to grades or exceptions to this policy. Students are encouraged to monitor their progress throughout the semester and take advantage of available resources early to ensure their success.

Grade disputes must be resolved within 7 days of an assignment being graded. Once those 7 days have passed, the grade will not be reviewed. To protest a grade, send a message in MOER. **No late work or grade disputes will be accepted during or after the last week of class. NO EXCEPTIONS.** Exam scores are non-negotiable and extra-credit is not offered in this course. Final course grades are calculated using the scale listed in the syllabus and are non-negotiable. It is unethical for a student to request their final percentage be rounded up to earn their desired grade.

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 student support hours as stated in the syllabus.
- Providing group or individual feedback regularly on assignments.
- Promptly responding to student questions about the course sent via email, or the MOER inbox.
- Regularly posting announcements about the course content and activities.
- Monitor your 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. Messages that don't adhere to the "Netiquette" Rules posted in MOER will not receive a response. Online lessons, homework, quizzes, and exams will be graded immediately in MOER. The grades will be available after the due date. I will not respond to any emails regarding this course after **June 25th**, as this aligns with the department's policies.

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](#)

[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.