



Spring 2023

## Course Information

Course Title:	Calculus 3
Course Prefix & Number:	MAT240
Section Number:	25801
Credit Hours:	5
Start Date:	1/31/23
End Date:	5/12/23
Room Number:	CM460
Meeting Days:	Tuesday/Thursday
Meeting Times:	5-6:30pm

## Course Format

The course format for this course is HyFlex. Class sessions can be attended in person on campus or live online via Zoom (information below). Coursework will be done in MOER. In order to get started in this course go to <https://moer.maricopa.edu/> and enroll in this course.

**MOER Course ID:** 16842

**MOER Enrollment Key:** Calc3SP23H

## Instructor Information

This course will be co-taught by the following instructors.

Instructor:	Dr Phillip G Clark
Email:	<a href="mailto:phil.clark@scottsdalecc.edu">phil.clark@scottsdalecc.edu</a>
Phone:	480-425-6753
Office:	CM427
Office Hours:	TTh 3-5, W 5-6 (Online)

Instructor: Gabriel Tarr  
Email: [Gabriel.tarr@scottsdalecc.edu](mailto:Gabriel.tarr@scottsdalecc.edu)  
Phone: 480-425-6746  
Office: CM 419  
Office Hours: Monday: 3:30 PM – 4:45 PM (CM 419 or [Zoom](#))  
Wednesday: 2:00 PM – 3:15 PM (CM 419 or [Zoom](#))

## Zoom Information for Live Online

The following information is for students attending class remotely via Zoom.

Zoom Meeting ID (hyperlinked to Zoom Class Meeting): [857 8276 4565](#)

Zoom Meeting Password: 461519

Please note that the office hours and class meeting are different links!

### Camera Statement:

For each of the live online problem sessions, it is required that your camera and microphone are in working order. When you are placed into small groups with other students, all cameras must be turned on. Your mic may be muted when you are not speaking, however the expectation is that you will treat the zoom small groups as if you were in-person. When your camera is on, please make sure that you are appropriately dressed. Non-offensive quirky clothing, cosplay, or costumes to bring a sense of levity to the zoom problem sessions is fine, however, please make sure that you are appropriately covered up as if you were attending class in-person. This goes for all students regardless of gender identity.

## Course Description

Multivariate calculus including vectors, vector-valued functions, partial differentiation, multiple integration, and an introduction to vector fields.

## Prerequisites

Grade of C or better in MAT230 or MAT231 or equivalent.

## Course Competencies

1. Solve geometry and physics problems using vectors.
2. Analyze the motion of an object using vector-valued functions.
3. Classify and analyze the behavior of functions of several variables.
4. Interpret the geometry of rectangular, polar, cylindrical and spherical coordinate systems.
5. Solve optimization and other applied problems using partial derivatives.
6. Set up and compute double and triple integrals in any order of integration using rectangular, polar, cylindrical, and spherical coordinates.
7. Solve physical problems using line integrals and vector fields.
8. Compare alternate solution strategies, including technology.
9. Communicate process and results in written and verbal formats.

## Texts, Course Materials and Technologies

### Calculator

- A graphing calculator is required for this course. The suggested calculators include the TI-83 or TI-83 plus and the TI-84. NOTE: Calculators with QWERTY keyboards or those which do symbolic algebra (e.g. TI-92s ,TI-89s, Casio FX2 or 9970G's) cannot be used during an exam.
- You are responsible for knowing how your calculator works! There are also links to help with the calculator on MOER.

### Computer

- You will need regular access to a computer (with online connection) in order to complete the online homework and online modules that are part of this course.
- The exam proctoring will require software to be downloaded to your computer.
- To see the requirements go to System Requirements for LockDown Browser at <https://web.respondus.com/he/lockdownbrowser/resources/>

### Webcam

- You will need a working webcam in order to take the exams.

### Email

- You will need a working email address that you check regularly.
- I do send regular class announcements and information via email which will be sent to your SCC email. Information about how to access and forward your SCC email account can be found under student resources on the SCC website.

- You can change your email in MOER but if you have another email you would like to use have your gmail forwarded to that email address.

#### Textbook

- We will be using an open text for this course which can be downloaded for free, printed out, or purchased from Amazon.
- Links for downloading and/or purchasing can be found in MOER
- The text is NOT required for this course

## 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.

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#### Policy on Incomplete

- The grade of I is exceptional and given only to students whose completed coursework has been qualitatively satisfactory but who have been unable to complete all course requirements because of illness or other circumstances beyond their control. The grade of I may be considered only for students who have completed at least 85 percent of the total coursework requirements with a grade of C or better. The student must request an I before the end of the semester. The faculty member retains the right to make the final decision on granting a student's request for an I, even though the student may meet the eligibility requirements for this grade. If the request is approved, the faculty member will determine a deadline for which work must be completed and the grade the student will receive if the work is not completed on time.

#### Policy on Student Grades

- Final grades are calculated using the scale listed in the syllabus. **FINAL GRADES ARE NON-NEGOTIABLE.** It is unethical to reach out at the end of the semester and request "a few extra points" or discuss the consequences of not earning the grade you want in the class. Messages of this nature will not receive a response.

#### Policy on Exams using Disability Resource Services (DRS)

- Students using DRS to assist with this course are responsible for setting up any necessary accommodations prior to taking any assessments. This is only for items for which DRS is needed.

#### Policy on Exam Proctoring

- Exams must be proctored.
- Any violation of proctor instructions will result in loss of points and may even include denial of your submission altogether.
- Proper identification must be shown to the proctor to take the exam.
- If you are unable to use any of the proctoring options for this course, you can find an accredited testing center.
  - Students are responsible for making all arrangements with the testing center and relaying exam submission information to their instructor.
  - [Here is a list of nationally accredited testing centers.](#)

## Grading Standards & Practices

### Grade Scale

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

### Assignments

Assignment Name	Percent of Grade
<b>Video Lessons</b>	5%
<b>Online Homework</b>	25%
<b>Online Quizzes</b>	20%
<b>Midterm Exam</b>	25%
<b>Final Exam</b>	25%

Assignment Name	Percent of Grade
<b>TOTAL:</b>	<b>100%</b>

## Course Components

### Video Lessons (5% of grade)

- There are video lessons that align with each section in the book we will be covering. You should go through the video lessons before class.
- Due dates are posted in MathAS and you must complete the homework by the due date and time for full credit.
- Latepasses may be used if additional time is needed. There is a 20% penalty applied to points earned during the latepass (after the due date). A Latepass must be requested through MathAS **within 24 hours of the due date of the assignment**. You can request more than 1 per assignment.

### Online Homework (25% of grade)

- Online homework is assigned in MOER
- Problems may be attempted until correct up until the due date for the assignment
- Assignments are worth varying totals based on the number of questions and the amount of points each question is worth.
- Latepasses may be used if additional time is needed. There is a 20% penalty applied to points earned during the latepass (after the due date). A Latepass must be requested through MathAS **within 24 hours of the due date** of the assignment. You can request more than 1 per assignment, penalty does NOT compound.
- Lowest online homework score is dropped

### Quizzes (20% of grade)

- There will be a quiz given at the conclusion of each module
- You will get multiple attempts at each question, but the points possible drops by 20% for each incorrect answer.
- Quiz dates are listed in MOER. If you cannot complete a quiz by date listed you must use a Latepass. There is a 20% penalty for quizzes completed late.
- Lowest quiz score is dropped.

### Exams (50% of grade)

- The midterm and final will be multiple choice.

- All exams must be proctored.
- There will be take home problems assigned from each module. These problems will appear in MOER in the Course Content folder.
- Take home problems for modules 11-13 are due by the scheduled midterm, problems for modules 14 and 15 are due by the scheduled final.
- Exams taken after the assigned date in MOER will be subject to a late penalty regardless of the reason and may not be allowed.

## **Exam Proctoring Tool**

### **ProctorU**

ProctorU allows test-takers to take a supervised exam on demand or by appointment. SCC has adopted ProctorU to provide proctoring services for our online courses. Some of the exams in this course are proctored, meaning you are supervised through a webcam and screen sharing technology when you take your exam. You may test your computer and webcam at the [ProctorU Testing Your Equipment](#) page. For your reference, read the [System Requirements for ProctorU](#) and [ProctorU Terms of Service](#). ProctorU is a fee-based service with the following [ProctorU Pricing Plan](#). For Spring and Summer 2021, the College is paying ProctorU exam fees for students.

NOTE: The College will only pay ProctorU fees for exam appointments made AT LEAST 72 hours (3 full days) prior to the scheduled exam. For example, if you have an exam on a Friday, you need to schedule your exam appointment by Tuesday at the latest. ProctorU will allow you to schedule exams within 72 hours of your exam, but you will be charged an additional fee, which is NOT covered by the College. You can find additional details about these fees [here](#).

## **Response Time**

Students can expect a response time of 24 for the instructor to respond to messages sent via MOER or email. Students can expect assignments to be graded within 24 of the assignment's due date.

## **Attendance Policy**

Attendance is determined via your participation in the course. This is not a self-paced course. You must complete assignments and make regular progress or you will be withdrawn. Refer to the Calendar section in MOER for the assignment submission

schedule. Students that fall one week behind the Calendar schedule may be withdrawn from the class without notice.

To keep an active status you must have logged in to MOER and worked on an assignment (just logging in does not count as activity) or email your instructor to let him/her know why you have not logged in for 1 week. There is a syllabus quiz and an introductory homework assignment due the first week of class, if these are not completed you will be withdrawn.

## **Instructional Contact Hours (Seat Time)**

This is a five (5) credit-hour course. Plan to spend at least 13-17 hours on course content weekly. Accelerated courses will require additional time per week.

## **Tutoring**

Free tutoring resources are available both in person and online. To find out more go to the Tutoring Resources folder in MOER.

## **Technology Statement(s)**

### **Third-Party Learning Tools**

SCC utilizes a variety of software applications and web-based tools operated by third party vendors to support student learning. To allow student access to the application, site, or tool certain identifiable information may be required to establish a user name or password, submit work and/or download information from these tools. Inherent with all internet-based tools, there is risk that individuals assume when electing to use the products and services made available by these tools, as they may place information at risk of disclosure.

In this course, we will use Maricopa Open Educational Resources (MOER) to complete or participate in assignments, activities and/or access course materials. [Accessibility Statements and Privacy Policies](#) for all tools used at SCC are available.

To use the third-party tools responsibly, please observe all laws and the Maricopa Community College District [Student Conduct Code](#). Some specific aspects of law and conduct code to remember are prohibitions against copyright infringement, plagiarism, harassment or interferences with the underlying technical code of the software. As a student using a third-party learning tool, you have certain rights. Any original work that



you produce belongs to you as a matter of copyright law. You also have a right to the privacy of your educational records. Your contributions to the third-party learning tool constitute an educational record. By using the third-party tool, and not taking other options available to you in this course equivalent to this assignment that would not be posted publicly on the internet, you consent to the collaborative use of this material as well as to the disclosure of it in this course and potentially for the use of future courses.

## Land Acknowledgement

Scottsdale Community College (SCC) credits the diverse Indigenous people still connected to the land on which we gather. Our college resides on the tribal territory of the Salt River Pima-Maricopa Indian Community (SRP-MIC). SRP-MIC is a federally recognized nation - one of 22 Arizona Indigenous nations and one of 574 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, established by Executive Order on June 14, 1879, of two distinct tribal nations: the Onk Akimel O'odham (Pima) and the Xalychidom Piipaash (Maricopa) people. We take this opportunity to thank the original caretakers of this land. We offer our respect to their Elders and to all O'odham and Piipaash people of the past, present and future.

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.