

Calculus III
MATH D001C, Fall 2026
De Anza College

COURSE MEETINGS

Section 55Y: This is a hybrid course. One midterm exam and the final exam occur in-person on the De Anza College campus. Lectures are online and asynchronous. All other course assignments and assessments are online.

COURSE DESCRIPTION

Students in this course will learn about infinite series, lines, and planes in three dimensions, vectors in two and three dimensions, parametric equations of curves, derivatives, and integrals of vector functions.

INSTRUCTOR

Jakob Kotas, PhD

Email: kotasjakob@fhda.edu

Office hours:

- Mon & Wed 12:00-1:00PM in S76a
- Tue 1:00PM-2:20PM on Zoom, link: <https://fhda-edu.zoom.us/j/4478579404>

If you join the Zoom link and find yourself in the waiting room, please be patient; I will let students in in the order they arrive. Office hours are on a drop-in basis with no appointment needed. Please come see me if you have questions or concerns. I'm here to help.

COMMUNICATION

Receiving communication from the instructor:

- All messages sent to the whole class will be visible in the “Announcements” tab in Canvas.
- Messages sent to individual students will be sent to your Canvas inbox.
- Make sure your Canvas announcement, discussion, and conversation notifications are set to “notify immediately.” Consider downloading the Canvas app if possible to receive notifications.

Sending communication to the instructor:

- Content-related questions, homework questions, etc. should be posted in the “Discussions” tab in Canvas. Both I and your peers may respond.
- Email (or Canvas inbox, both go to the same place). Expect a response within 1-2 business days. Use email for grade-related questions, personal or confidential issues, etc.

TEXTBOOK AND REQUIRED MATERIALS

Textbook: Bambhania, Nguyen and Viswanadha: *Calculus III: Series and Vector Calculus*. Available for free online at: https://math.libretexts.org/Courses/De_Anza_College/Calculus_III%3A_Series_and_Vector_Calculus

Required materials: Computer with internet to access Canvas and complete homework assignments. If you don't have a tablet you can write on a PDF with, you will need to be able to scan in paper pages for online checkpoint exams (see “exam policy” below). You also need a camera for Zoom calls (for office hours and pre-exam meetings, see “exam policy” below); any laptop or phone camera is fine for this.

PREREQUISITES

MATH 1B or MATH 1BH (with a grade of C or better) or equivalent

Advisory: ESL 272 and ESL 273, or ESL 472 and ESL 473, or eligibility for ENGL C1000 or ENGL C1000H or ESL 5

WEBPAGES

Online course materials can be found at the course webpage on Canvas: deanza.instructure.com

All homework assignments use the MyOpenMath platform, and are viewed and completed in Canvas. In the Modules tab, homework assignments are labeled “EXERCISES.”

There is sometimes a delay between syncing grades from the MyOpenMath server to the Canvas gradebook. If the gradebook does not display a correct assignment grade 24 hours after completing an assignment, please contact the instructor.

LECTURE POLICY

This is an asynchronous course. Lecture videos will be posted typically weekly on Thursdays. Videos and other course materials for the week are available in Modules and are listed as “COURSE VIDEOS” and “ADDITIONAL VIDEOS”. Course videos are created by the instructor and should be watched. During those videos, there are opportunities to stop the lecture and try sets of practice problems, labeled as “PRACTICE”. While the solutions to the practice problems are also posted, you should try them yourself before looking at the solutions. The only way to learn mathematics is by practicing it, not by merely listening to someone talk about it. Practice problems are not turned in nor graded. The additional videos are optional to watch, are not created by the instructor but provide extra examples and explanation.

Students are also encouraged to read the sections of the textbook that correspond with each lecture video. They are in Modules listed as “READ”. In order for the lecture videos to be of manageable length, course videos typically will not cover every small detail and example problem in the textbook section. By reading the textbook section after the video, students reinforce the concepts and delve more deeply into the material with further detail and more examples.

HOMEWORK POLICY

Most problems are graded for correctness. MyOpenMath, our homework platform, will give you immediate feedback as to whether your answer is correct or incorrect. You have a limited number of tries, generally 3, for a given problem randomization. If you still haven’t gotten credit, you can get a similar problem which is of a similar type but may have small differences, where you get 3 tries again. There are generally 99 such similar problems. The number of tries per randomization, and number of remaining similar random problems, is displayed.

Some problems may ask you for a short written response, which are not graded for correctness. The system will automatically give you credit for anything you write. I reserve the right to go in and manually grade these problems and mark you down if an answer is missing or incorrect. I won’t do this for every problem, but I also won’t announce in advance which problems I will grade manually, if any.

Deadlines and submission process: Homework assignments are usually due on Wednesdays at 11:59PM, unless specified otherwise in Canvas. Assignments are visible when the weekly Module is displayed the prior Thursday. Your answers are submitted within the browser window.

Suggestions for success: Keep an organized notebook for yourself where you clearly show the steps for each problem, even though you won’t turn it in. It will be helpful later when studying for exams, where you will be graded based upon the clarity of your work. It’s also easier to get help from others if you can show step-by-step work, so that others can pinpoint the issue. Start the homework as soon as it becomes available and work on it a little bit each day. Don’t wait until the day the homework is due to begin it. The human brain requires time for concepts to sink in. In many cases “sleeping on it” solves your problems but you rob yourself of that ability if you wait until the due date.

Collaboration: Collaboration on homeworks is encouraged, but every student must submit their own assignment consisting of their own work. Assignments are demanding, and you are encouraged to start them as early as possible.

If posting for help in a Canvas discussion, do not include your final answer or entire step-by-step solution so that other students may copy it. It's OK to include a small bit of work (a few lines) if you have a question about that specific piece of your steps. If you need to display your entire work, come to office hours.

Do not publicly post homework solutions on the internet. If you are found to have done so, this will be treated as a plagiarism incident.

AI: AI is a powerful tool that can augment your learning if used responsibly. You may use AI for general questions, not specific ones. For example, asking AI to explain a specific theorem or generate extra practice problems of a specific type is acceptable. Copy-pasting a homework or exam question into AI and turning in its response as your own is not acceptable. If you are found to have used AI inappropriately, this will be treated as a plagiarism incident.

Point totals: Different homework assignments are worth different amounts of points as not all are the same length. At the end of the quarter, the total points across all assignments are used to calculate the grade, not an average of the grades for each assignment. In other words, longer assignments with more points are weighted more heavily than shorter assignments with fewer points.

Flexibility policy: Each student is granted two late passes. These late passes give you the ability to complete the assignment late, up to 48 hours past the original deadline, with no penalty. To use a late pass, click the button in MyOpenMath; you do not need to contact the instructor. An explanation of how to use a late pass is explained in this video:
https://youtu.be/dpyP2_wEadI

The instructor reserves the right to grant additional late passes due to extenuating circumstances, but you must communicate with me.

In addition to late passes, 10% of the homework score is dropped at the end of the quarter. That means that you must earn 90% of all the points on all the assignments combined to get a perfect score. If you get below 90%, the score is out of 90%; for example, a student getting 85% of homework points would get a final score of $85/90 \approx 94.44\%$. A student getting above 90% just gets 100%; there is no extra credit. The 10% drop will happen at the end of the quarter; it will not show up in Canvas during the quarter (Canvas shows raw homework scores only).

EXAM POLICY

There will be 2 online quizzes (1 hour each), 1 in-person midterm exam (1 hour), and 1 in-person final exam (2 hours).

Online quizzes: The online quizzes are posted at 12:00AM Pacific Time on a specific date and may be started at any time throughout the day, and must be finished by 11:59PM Pacific Time. Once a quiz is opened, you have 60 minutes to complete it. The quiz is designed to take under 60 minutes, so the 60 minute time limit includes the download and upload time.

To complete the quiz, you have several options:

- Use a tablet device to write (annotate) your answers on the blank exam PDF and reupload it as another PDF file. Answers must be handwritten, not typed.

- Use a printer to print the blank quiz, handwrite your answers on the papers with a pen or pencil, and scan and reupload it as a single PDF file. Make sure scans are legible with high contrast before uploading.
- Handwrite your answers on blank pieces of paper, then scan and upload them as a single PDF file. Clearly indicate the problem numbers and put them in the correct sequential order when scanning in. Make sure scans are legible with high contrast before uploading.

After seeing the quiz, you may not show it or discuss it with others until after the solution has been posted. Do not publicly post blank quizzes or quiz solutions on the internet. If you are found to have done so, this will be treated as a plagiarism incident.

You may use any amount of paper or static PDF note sheets/notebooks/reference materials during the exam. Calculators are allowed but not necessary; I will keep calculations on exams simple as that is not the focus of our class. You may use a handheld (e.g. TI) calculator or desmos.com for calculations or to graph functions. For most problems unless told otherwise, you must show your work for credit. You may not use AI, Google, or other web searches during the exam. You may not collaborate with others during the exam. You may only submit your own work.

In-person midterm and final exam: The midterm exam and final exam will occur on the De Anza College campus in a room to be announced via Canvas before the exam date. These exams may not be taken in a different location or proctored online. I cannot make exceptions to this policy due to students' locations of residence.

If you have a conflict with an exam time, email the instructor at least 2 weeks before the exam date to discuss with me.

Bring your student ID or other government-issued photo ID (driver license, passport, etc.) for verification. Students with approved disability exam accommodations must take their exams in-person at the De Anza Disability Support Programs and Services office on the same date as the rest of the class and are responsible for scheduling their exam on that date with the DSPS office in advance.

After seeing the in-person exams, you may not show it or discuss it with others until after the solution has been posted. Do not publicly post blank exams or exam solutions on the internet. If you are found to have done so, this will be treated as a plagiarism incident.

You may use any amount of paper only note sheets/notebooks/reference materials during the exam. Calculators and electronics are NOT allowed; I will keep calculations on exams simple as that is not the focus of our class. For most problems unless told otherwise, you must show your work for credit. You may not use AI, Google, or other web searches during the exam. You may not collaborate with others during the exam. You may only submit your own work.

Exam dates and times:

- **Online quiz 1:** Friday, October 16, 2026, anytime from 12:00AM-11:59PM
- **In-person midterm exam:** Friday, November 6, 2026 at 2:30-3:30PM, room TBA
- **Online quiz 2:** Friday, November 20, 2026, anytime from 12:00AM-11:59PM
- **In-person final exam:** Friday, December 11, 2026 at 1:45-3:45PM, room TBA

Rescheduling exams: Exams may not be rescheduled in general. If an unavoidable conflict or emergency should occur, contact the instructor immediately.

Regrades: When a graded exam is returned, you should check over your exam and view the solutions promptly. If you believe an exam problem was graded incorrectly, please inform me as soon as possible. I

may not accept regrade requests more than one week after a graded exam has been returned.

DISCUSSION BOARD POLICY

In Canvas modules, there are discussion boards where you will discuss mathematics with other students in the class. In Modules, they are labeled as “DISCUSS.” There will usually be one discussion board each week, and will appear in Canvas on Thursdays and close the following Wednesday. A guiding question will be offered to respond to for each topic. Alternatively, you can feel free to share anything related to that topic, including:

- Lingering questions about lecture videos
- Asking for help with a practice problem or homework problem
- Helping other students with their questions
- Observations of how the topic connects to other topics we discussed or things outside our class
- etc.

To incentivize robust discussion, making at least one post on each discussion board will earn 1 point toward the discussion board component of your grade. Students are encouraged to post more than once in each board, but posts beyond the first in each board will not earn additional points. After a board is turned off, no more points may be earned. Students are automatically excused from 2 discussion board posts over the course of the quarter with no penalty to their grade. The instructor reserves the right to grant additional excused posts due to extenuating circumstances, but you must communicate with me.

STUDY SESSION POLICY

Students will be assigned to small groups early in the quarter. Each student who meets with their group in advance of each exam/quiz for at least 30 minutes will receive 3% extra credit on their subsequent exam/quiz score (up to a maximum of 100%). The purpose of these meetings is to form a study session where students can discuss the course material and study together synchronously.

A questionnaire will go out early in the quarter where students can indicate a time preference, and if they already know anyone in the class they wish to be in a group with. Once the groups have been assigned, it is up to the group to communicate with each other to determine exactly where and when they will meet. These meetings will likely be on Zoom but any platform where students can see each other, including in person, is fine. In order to get the extra credit points, one person from the group should screenshot or take a picture of the meeting with everyone’s face in view, and turn it in via Canvas. Cameras must be on during these meetings. These verification pictures are due by Thursday at 11:59PM, the day before each exam. Students are welcome and encouraged to meet with their groups more than 4 times before the 4 exams, but additional extra credit will not be offered beyond those.

How you choose to structure your meeting time is up to the group, but I recommend using the time to discuss any sticking points that your group members have. It is advantageous if everyone in the group has completed all the homework assignments and the practice exam prior to meeting so that you have material to talk about.

GRADES

Component weights:

Homeworks: 15%

Quizzes: 10% each $\times$ 2

Midterm exam: 20%

Final exam: 40%

Discussion board posts: 5%

Letter grade thresholds:

A+: 97%

A: 93%

A-: 90%

B+: 87%

B: 83%

B-: 80%

C+: 75%

C: 70%

D: 60%

F or FW: below 60%

(The FW grade indicates that a student has stopped participating in a course after the last day to officially withdraw, without achieving a final passing grade, and the student has not received college authorization to withdraw under extenuating circumstances.)

Instructor reserves the right to lower the above thresholds for each letter grade after all grades are in for the quarter (that amounts to an upward curve to the grades). Any such increase would be small if anything at all, and will be explained in a Canvas announcement after the final exam. Do not rely on this policy saving your grade!

Grade changes will only be made for clerical errors and will not be changed for any other reason.

COLLEGE POLICIES

Important dates and deadlines:

<https://www.deanza.edu/calendar/dates-and-deadlines.html>

Final exam schedule:

<https://www.deanza.edu/calendar/final-exams.html>

Tutoring:

The De Anza Student Success Center offers peer tutoring and workshops:

<https://deanza.edu/studentsuccess/>

For after-hours and weekend tutoring, more information on NetTutor can be found here:

<https://deanza.edu/studentsuccess/onlinetutoring/>

Disability accommodations:

<https://www.deanza.edu/dsps/>

Students who have been found to be eligible for accommodations by Disability Support Programs and Services (DSPS), please follow up to ensure that your accommodations have been authorized for the current quarter. Students are responsible for contacting the instructor in a timely fashion to discuss how their accommodations will be implemented in the course. If accommodations apply to exams or homework deadlines, this discussion must occur as soon as possible in the quarter and well before the relevant exam or deadline. Accommodations may not be applied retroactively.

If you are not yet registered with DSPS and need accommodations, please contact the DSPS office at the link above.

Academic integrity policy:

<https://www.deanza.edu/policies/academic-integrity.html>

Students are expected to exercise academic honesty and integrity. Violations such as cheating and plagiarism

will result in disciplinary action which may include recommendation for dismissal. If you have any doubt about whether a specific action is permissible in our class under the academic integrity policy, please ask me for clarification first.

STUDENT LEARNING OUTCOMES

- Analyze infinite sequences and series from the perspective of convergence, using correct notation and mathematical precision.
- Apply infinite sequences and series in approximating functions.
- Synthesize and apply vectors, polar coordinate system and parametric representations in solving problems in analytic geometry, including motion in space.

Student Learning Outcome(s):

- Analyze infinite sequences and series from the perspective of convergence, using correct notation and mathematical precision.
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Office Hours:

S76a M,W 12:00 PM - 1:00 PM
Zoom T 1:00 PM - 2:20 PM