

De Anza College – Spring 2017

MATH 1C–63 Calculus III

Instructor: Dr. Paul Du
E-mail: dupaul@fhda.edu

Class: TTh 6:30 pm – 8:45 pm, Room S16
Office Hours: TTh 3:00 pm – 3:50 pm, Room S43

Prerequisite

Mathematics 1B with a grade of C or better, or equivalent.

Textbook

Calculus: Early Transcendentals, 7th edition, James Stewart, Brooks/Cole.

Calculator Policy

A basic scientific calculator may be used on exams and quizzes. Graphing calculators and cell phone calculators will not be allowed on exams or quizzes.

Course Description

Topics covered in this course include infinite series, calculus with parametric equations and polar coordinates, vector algebra and solid analytic geometry, and calculus of vector-valued functions and space curves.

Student Learning Outcomes

Upon successful completion of this course, the student will be able to

1. Graphically, analytically, numerically and verbally analyze infinite sequences and series from the perspective of convergence, using correct notation and mathematical precision.
2. Apply infinite sequences and series in approximating functions.
3. Synthesize and apply vectors, polar coordinate system and parametric representations in solving problems in analytic geometry, including motion in space.

Homework

Homework will be assigned for each covered section of the textbook and will be due on each quiz and each exam day. Students are responsible for solving all the problems assigned on a daily basis, showing all work in a neat and orderly manner. Simply giving answers without showing work will receive no credit. Homework will be graded on neatness, completeness, and correctness. Late homework will be accepted but will receive a maximum of half credit.

Homework Format Requirement: Each homework assignment must be completed (1) on standard letter size (8.5" × 11") printer or loose-leaf paper (No torn-out spiral notebook pages), (2) stapled together, (3) in pencil or black/blue pen. The first page must be a cover page that contains the student name and a list of sections and problems that have been finished. Assignments that do not follow the format requirement will not be collected or will cause significant points to be deducted.

Participation

Students are expected to be actively involved in the classroom learning. Class participation will be graded based on attendance, asking questions, sharing solutions, and participation in classroom activities.

Quizzes and Exams

There will be four (4) quizzes given throughout the quarter. Quiz problems will be similar to (or taken directly from) homework problems. The lowest quiz score will be dropped. There will be **no make-up quizzes under any circumstances**.

There will be two (2) midterm exams given during the quarter. Students may bring one 3" × 5" index card (two sides) of handwritten notes to each midterm exam. The lowest midterm exam score will be replaced by the final exam score, if the latter is higher. A picture ID is required to take each midterm exam. There will be **no make-up exams under any circumstances**.

A mandatory comprehensive final exam will be given at the end of the quarter. Students may bring one 8.5" × 11" sheet (two sides) of handwritten notes to the final exam. A picture ID is required to take the final exam. Any student who **misses the final exam will receive a grade of F** for the course.

Grading Policy

The course grade will be determined by the following criteria:

Participation	5%	A =	90% – 100%
Homework	10%	B =	80% – 89%
Quizzes	15%	C =	70% – 79%
Midterm Exams	40%	D =	60% – 69%
Final Exam	30%	F =	0% – 59%

*The instructor reserves the right to assign plus/minus grades for borderline cases.

Attendance Policy

Students are expected to attend all classes, to be on time and to stay for the entire class period. Any student who misses more than one (1) class during the first two weeks or more than three (3) classes before the withdraw deadline may be dropped by the instructor. If a student decides not to continue with the course, it is the student's responsibility to officially drop the course. Failure to do so may result in a grade of F for the course.

Academic Honesty

Students are responsible for keeping themselves informed of the De Anza College Policy on Academic Integrity (www.deanza.edu/studenthandbook/academic-integrity.html). Cheating will not be tolerated and will result in receiving a zero on the exam with the possibility of being reported to the Dean of Students Office for possible disciplinary action.

Classroom Behavior

Students are responsible for keeping themselves informed of the De Anza College Student Code of Conduct (www.deanza.edu/dsps/dish/appendix/conducts.html). Disruptive behavior in the classroom, including

(but not limited to) talking during lecture, using cell phones or other electronic devices for non-class purposes, or repeatedly arriving to class late or leaving early, is unacceptable. Persistent disruption can result in being asked to leave the class and/or being referred to the Dean of Students Office.

Accommodations for Students with Disabilities

Students with disabilities who believe that they may need accommodations in this course are encouraged to contact Disability Support Services (408-864-8753) or Educational Diagnostic Center (408-864-8839) as soon as possible to ensure that such accommodations are arranged in a timely fashion.

Additional Help

Math and Science Tutorial Center (S43) provides free individual and group tutoring. A useful online math learning resource is Khan Academy (www.khanacademy.org/math).

Hints for Success

- ▶ Attend lectures and participate actively in class.
- ▶ Work problems very day.
- ▶ Review old material constantly.
- ▶ Form a study group.
- ▶ Utilize tutoring and online learning resources.