De Anza College – Spring 2016
MATH 1C–27 Calculus III

Instructor: Dr. Paul Du
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Class: TTh 4:00 pm – 6:15 pm, Room MLC270
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 TI-83/TI-84 graphing calculator is recommended. Calculators with computer algebra systems (CAS) (e.g. TI-89/TI-92/TI-Nspire) will not be allowed on exams or quizzes. 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 and Classwork

Homework will be assigned for each covered section of the textbook and will be due on each exam day. Students are responsible for solving all the problems assigned, 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: Each homework assignment must be completed on standard letter size paper with smooth edges, stapled together, and in pencil or black/blue pen. Each problem must be clearly numbered and each solution must begin with the original problem statement (except for a word problem).

There will be occasional in-class assignments which may involve group work. The dates for classwork will be unannounced. There will be NO make-up classwork.

Quizzes and Exams

There will be seven (7) quizzes given during the quarter. Quiz problems will be based on the homework assignments. The lowest two (2) quiz scores will be dropped. There will be NO make-up quizzes.

There will be two (2) midterm exams given during the quarter. Students may bring one single-sided $8.5'' \times 11''$ sheet of handwritten notes for 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 midterm exams.

A mandatory comprehensive final exam will be given at the end of the quarter. Students may bring one double–sided $8.5'' \times 11''$ sheet 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:

Classwork	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%

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 three (3) classes 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 can result in receiving a zero on the exam or an F for the course up to 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 classroom behavior, including (but not limited to) talking with other classmates during lecture, making distracting noises, and using cell phones or other electronic devices without prior approval, is not acceptable. 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`).

Tentative Course Schedule

TUESDAY		THURSDAY	
Apr 5th §11.1	**1**	7th §11.2, §11.3	**2**
12th §11.4, §11.5	**3**	14th §11.6, Quiz 1	**4**
19th §11.7, §11.8	**5**	21st §11.9, Quiz 2	**6**
26th §11.10	**7**	28th §11.11, Quiz 3	**8**
May 3rd Review	**9**	5th **Exam 1**	**10**
10th §10.1, §10.2	**11**	12th §10.3, §10.4, Quiz 4	**12**
17th §12.1, §12.2	**13**	19th §12.3, Quiz 5	**14**
24th §12.4, §12.5	**15**	26th §12.6, Quiz 6	**16**
31st Review	**17**	June 2nd **Exam 2**	**18**
7th §13.1, §13.2	**19**	9th §13.3, Quiz 7	**20**
14th §13.4	**21**	16th Review	**22**
21st		23rd **Final: 4:00 PM – 6:00 PM**	**23**