

CRN (35000) Math 1C-23Z Calculus

Academic Term: Winter 2022

Instructor: Bijan Sadeghi

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1:30 – 3:45 PM, TTH

Office hours: TTH 1:00pm – 1:30 pm, zoom: ID on Canvas

**Textbook:** Calculus: Early Transcendental; 8<sup>th</sup> ed., by James Stewart.  
Your textbook should include a Webassign access code. If not, you must purchase one separately.

**Prerequisite:** Math 1A & 1B or equivalent (with a grade of C or better).

The basic content of this course covers Parametric Equations & Polar Coordinates; Infinite Sequences & Series; Vectors & the Geometry of Space; Vector-Valued Functions. Two of the chapters (Parametric & Vectors) are virtually all algebra, but there is some calculus related to area and arc-length. Sequences/Series is the essential theory of understanding how a calculator/computer computes virtually all the various mathematical functions (logarithms, trig, etc.). Your knowledge of limits is very crucial to this lengthy chapter. Vector-Valued Functions does indeed bring us back to derivatives and integrals.

Keep in mind: many colleges on a semester system have two semesters of calculus to make up a full year of calculus, whereas those schools (De Anza/Foothill, others) on a quarter system use three quarters to make a full year of calculus. Guideline: wherever you begin your calculus sequence is where you should finish that sequence.

Transferring between semester and quarter systems during the calculus sequence can create problems of missed material /information.

**Attendance: Not required.**

**Cheating:** Cheating is forbidden. There shall be no talking to, or unauthorized helping of other students, or copying from or looking at another student's paper during exams. A class/course grade of "F" will be given for any of the above infractions.

**Homework:** All the homework will be done online. Once you have your webassign access code, go to [www.webassign.net](http://www.webassign.net), log-in and register, and enter Class Code:

deanza 1963 7102
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**Quizzes:** There will be weekly quizzes.

**Exams:** Two exams will be given during the quarter. No Make Ups.

**Final Exam:** A two-hour comprehensive final exam will be given on Tuesday, March 22, 2022, 1:45 PM – 3:45 PM. This is a must exam. A grade of "F" will be assigned to those who miss the final exam.

Jan.	4	10.1 – 10.4	6	10.1 – 10.4	11	10.1 – 10.4	13	10.1 – 10.4
Jan.	18	<b>Exam 1 is on Ch. 10</b>	20	Ch. 11	25	Ch. 11	27	Ch. 11
Feb.	1	Ch. 11	3	Ch. 11	8	Ch. 11	10	Ch. 11
Feb.	15	<b>Exam 2 is on Ch.11</b>	17	Ch. 12	22	Ch. 12	24	Ch. 12
Mar.	1	Ch. 12	3	Ch. 13	8	Ch. 13	10	Ch. 13
Mar.	15	Ch. 13	17	Review	22	Final exam	1:45 pm-3:45pm	

**Grading:**

		<b>Percentage</b>	<b>Grade</b>
		[95-100]	"A+"
Homework	200 points	[90-95)	"A"
Exams (2)	200 points	[88-90)	"A-"
Quizzes	100 points		
<u>Final Exam</u>	<u>200 points</u>	[85-88)	"B+"
Total	700 points	[80-85)	"B"
		[77-80)	"B-"
		[72-77)	"C+"
		[65-72)	"C"
		[61-65)	"D+"
		[57-61)	"D"
		[55-57)	"D-"
		[0-55)	"F"

**Important dates:** Last day to add/drop classes: For deadlines to drop with a refund and without and with a "W" grade, go to MyPortal > Students Tab > My Courses> View your Class Schedule. Dates are enforced.

Jan. 15 Last day to add classes  
Jan. 17 Last day to drop classes for full refund  
Jan. 17 Last day to drop classes without a "W"  
Feb. 25 Last day to drop classes with "W"

**Student Learning Outcome(s):**

\*Graphically, analytically, numerically and verbally 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.