

INTRODUCTION:

Welcome to integration calculus. I am Millia Ison. I have been teaching at DeAnza College for almost 30 years. I plan to work with you closely to help you to succeed. In this course, you will use of your derivative and integral skills to work with polar coordinates, vector funations and series.

You will need to spent **at least 25 hours a week** to study the material, do homework and quizzes. Homework and quizzes are on webassign. About \$100 to purchase the access online. If you used webassign in Math 1A or 1B at DeAnza, you may already have your account. Class code is in the syllabus next page.

Homework: You have 5 submissions to get the correct answer for a question to earn a point. It is very important for you to understand the comcepts when you do problems. You need to practice until you can do a problem without a sample example, notes or hint. Sections listed on the class syllabus calendar are suggested study plan.

Quizzes: You have quiz twice a week. I list section number as quiz name on webassign. For example Quiz 10.2 means this quiz covers section 10.2 in the text. Learn the material and do the related homework first before you start quiz. You have 3 submissions for each question on quiz. Quiz(zes) will be available Monday 8 am weekly, due the following Sunday 11:59 pm. Once you start, you have 60 minutes to finish. **NO EXTENSION.**

Exams and Final: Reveiws for each exam will be provided on Webassgn a few days before the exam for you to prepare. Doing the reviews will **not** earn you any points for your grade. Exams and Final are to test your understanding of the course material. Questions on exams are similar to the questions on the reviews.

Need Help?

1. Tutoring is available both on-campus and online. See <http://deanza.edu/studentsuccess/mstrc/>
2. Post questions in the Discussion section in Canvas
3. Email me at isonmillia@deanza.edu
4. Form a study group with other students in the class
5. Follow the “NetTutor” on the navigation in Canvas

Students with disability-related need for academic accomidations or services, please contact Disability Support Services (DSS) 408 864 8753 or Educational Diognistic Center (EDC) 408 864 8839. The Center will inform me your situation. You may take exams at EDC, but you must schedule with EDC Wednesday or Thursday of the official exam week. You need to schedule one week ahead the exam day.

Chapter	SEC	PROBLEMS		Monday	Tuesday	Wednesday	Thursday	Friday
Parametric Equations And Polar Coordinate	10.1	Curves Defined by Parametric Equations	April	6	7	8	9	10
	10.2	Calculus with Parametric Curves						
	10.3	Polar Coordinates						
	10.4	Areas and Lengths in Polar Coordinates	April	13	14	15	16	17
			Wk1		10.1, 10.2		10.3,10.4 Quiz 10.2	
Infinite Sequences And Series	11.1	Sequences	April	20	21	22	23	24
	11.2	Series						
	11.3	The Integral Test and Estimates of Sums			10.4		11.1, 11.2	
	11.4	The Comparison Tests	Wk2		Quiz 10.4		Quiz 11.1	
	11.5	Alternating Series	April	27	28	29	30	1
	11.6	Absolute Convergence & the Ratio and Root Tests	May		11.2, 11.3		11.4, 11.5	
	11.7	Strategy for Testing Series	Wk3		Quiz 11.2, 3		Quiz 11.4,5	
	11.8	Power Series	May	4	5	6	7	8
	11.9	Representations of Functions as Power Series			11.6, 11.7		Exam 1 4-5:30 pm	
	11.10	Taylor and MacLaurin Series	Wk4		Quiz11.6,7			
	11.11	Applications of Taylor Polynomials	May	11	12	13	14	15
			Wk5		11.8, 11.9 Quiz 11.8,9		11.10 Quiz11.10	
Vector And The Geometry Of Space	12.1	Three-Dimensional Coordinate Systems	May	18	19	20	21	22
	12.2	Vectors						
	12.3	The Dot Product			11.10, 11.11		12.1, 12.2	
	12.4	The Cross Product	Wk6		Quiz11.10,11		Quiz 12.1, 2	
	12.5	Equations of Lines and Planes	May	25	26	27	28	29
	12.6	Cylinders and Quadric Surfaces	Wk7	Holiday Memorial Day	12.3, 12.4 Quiz 12.3		12.4, 12.5 Quiz 12.4,5	
Vector Functions	13.1	Vector Functions and Space Curves	June	1	2	3	4	5
	13.2	Derivatives and Integrals of Vector Functions			12.6		Exam 2 4-5:30 pm	last day to drop w/W
	13.3	Arc Length and Curvature	Wk8		Quiz12.5,6			
	13.4	Motion in Space: Velocity and Acceleration	June	8	9	10	11	12
			Wk9		13.1 Quiz 13.1		13.2 Quiz13.2	
All homework assignments and due dates are listed on WebAssign. These are the least amount of exercises you need to do. If you don't master the material well afterdoing WebAssign, work with more of the similar problems in the text.			June	15	16	17	18	19
					13.3 Quiz		13.4 Quiz	
			June	22	23	24	25	26
			Wk11	Reivew			Final 4:00 – 6:00p	

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.