

Math 253: Calculus III

Spring 2012

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Schedule

	Monday	Tuesday	Wednesday	Thursday	Friday
9:45 – 11:00	Office hours	Office hours	Office hours	Office hours	By arrangement
11:10 – 12:25	Math 125 17 - 109	Math 123 17 - 109	Math 125 17 - 109	Math 123 17 - 109	By arrangement
12:45 – 1:55	Math 253 17-109	Math 253 17-109	Math 253 17-109	Math 253 17-109	
2:00 - 300	On Campus	On Campus	On Campus	On Campus	

Materials

Textbook: Calculus early Transcendentals 7th edition by James Stewart with a code for WebAssign

Calculator: You will need a graphing calculator such as the TI – 83 or TI - 84

Coverage

We will be covering chapters 10 and 12 through 16. Topics include a review parametric equations, vectors, vector functions, partial derivatives, multiple integrals, and vector calculus.

Student Learning Outcomes (SLOs) for the course include:

1. Compute derivatives of multivariable functions and apply to geometry and optimization problems.
2. Model motion using vectors valued functions.
3. Identify and compute the different types of integrals.
4. Recognize and apply the fundamental theorem of calculus.

Types of Assignments

Homework (20% of the grade): Homework will be done on WebAssign. Sets of homework will be due on Monday following the week they are assigned. If you don't finish an assignment, then you may continue working on it for one week with a 30% penalty. No other extensions will be granted. The WebAssign class key for this class is **canadacollege 7196 4339**

Homework Notebook: As you work on the problems in webassign you will need to do all of your work in a spiral notebook or on paper which you put into a folder to be turned in at each test. Each section should be labeled so that it is easy to find and all of your work shown. For the occasional problem that does not require work you may write "no work needed." The score will be part of your Homework grade and weighted 3 times a single HW assignment

Quizzes (5% of the grade): There will be a short quiz at the end of class each Thursday. Each quiz will be worth 5 points. There are **no makeup quizzes**, but the lowest score will be dropped.

Tests (50% of the grade): There will be 6 tests, one after each chapter. The test on chapter 9 will be online and the other 5 will be done in class. After each, with the exception of the chapter 9 test, test you will be given an opportunity to correct the problems you missed and earn back some of the points that you missed. Each test is worth 100 points.

Make up tests: If you miss a test, then you may make it up within a week of the original test. The score on the makeup test will be scaled by a factor of 0.9. For example if you got 92 on the makeup test you would get $92 \times 0.9 = 82.8$ or 83 as your score for the test. There are no corrections on makeup tests. **You may only take one make up test during the semester** (If you miss a second test your score for that test will be zero).

Hours by Arrangement and Portfolio Problems (5% of the grade): To meet the hours by arrangement requirement you will work on a set of problems in the learning center. Your work on these problems will be put together into a portfolio to be collected on Monday May 14th. The portfolio will be worth 50 points and be graded on accuracy, neatness, completeness, organization, and the completion of at least 16 hours in the learning center. Late portfolios will be worth a maximum of 40 points.

Final Exam (20% of the grade): The final exam is comprehensive and scheduled for Wednesday May 23rd 2:10 – 4:40. There is no makeup for the final.

Grades

Grades are based on the percentage earned

A: 90 – 100% B: 80 – 89% C: 70 – 79% D: 60 – 69% F: 0 – 59%

Spring 2012 Math 253 Tentative Schedule

Week	Date	Topic
1	16-Jan	Holiday
	17-Jan	Introduction, 10.1
	18-Jan	10.2
	19-Jan	10.3
2	23-Jan	10.4
	24-Jan	10.5
	25-Jan	10.6
	26-Jan	Review Test #1 online
3	30-Jan	12.1
	31-Jan	12.2
	1-Feb	12.3
	2-Feb	12.4
4	6-Feb	TBA
	7-Feb	12.5
	8-Feb	12.6
	9-Feb	Review
5	13-Feb	Test #2 (chapter 12)
	14-Feb	13.1
	15-Feb	13.2
	16-Feb	TBA
6	20-Feb	Holiday
	21-Feb	13.3
	22-Feb	13.4
	23-Feb	Review
7	27-Feb	Test #3 (chapter 13)
	28-Feb	14.1
	29-Feb	14.2
	1-Mar	14.3
8	5-Mar	TBA
	6-Mar	14.4
	7-Mar	14.5
	8-Mar	Flex day - No class
9	12-Mar	14.6
	13-Mar	TBA
	14-Mar	14.7
	15-Mar	14.8

10	19-Mar 20-Mar 21-Mar 22-Mar	Review Test #4 (chapter 14) 15.1 15.2
11	26-Mar 27-Mar 28-Mar 29-Mar	15.3 TBA 15.4 15.5
	2-Apr 3-Apr 4-Apr 5-Apr	Spring Break Spring Break Spring Break Spring Break
12	9-Apr 10-Apr 11-Apr 12-Apr	15.6 TBA 15.7 15.8
13	16-Apr 17-Apr 18-Apr 19-Apr	15.9 15.1 Review Test #5 (chapter 15)
14	23-Apr 24-Apr 25-Apr 26-Apr	16.1 16.2 16.3 16.4
15	30-Apr 1-May 2-May 3-May	TBA 16.5 16.6 16.7
16	7-May 8-May 9-May 10-May	16.8 16.9 16.1 Review
17	14-May 15-May 16-May 17-May	Portfolio Due, Test #6 (chapter 16) Review Review Review
		Final Exam: Wed. May 23rd 2:10 - 4:40