Mathematics 1001: Calculus II – Fall 2008

Slots: 20 (Section 001),
Classrooms: A 1043
Time: Lecture TR 15:30 - 16:45
Instructor: Dr. Margo Kondratieva
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Prerequisite:

The prerequisite is Math-1000 or M-1081.

Getting Help:

There are few ways of getting help. First, I'll have **office hours Thur 14:00-15:25**, so feel free to come to them. Second, your lab instructor will address your questions during the Lab meetings (see Lab schedule below). If you need to speak to me outside of those times please make an appointment. If you have a quick question or remark send me an e-mail.

Labs:

Labs begin on Tuesday September 16. All labs are in room HH-3026 on Tues mornings. There is no Lab on Tues Oct 14 and Nov 11. There is Lab meeting on Nov 13 (in place of Nov 11).

Lab section 2 meets 9:00-10:00, Lab section 3 meets 10:00-11:00, Lab section 4 meets 11:00-12:00.

Marking Scheme:

There will be an assignment almost every week which I'll usually hand out on Thur. They'll usually be due a week later on Thur in class or assignment box before 6pm. Late assignments will not be accepted. The **assignments** will be worth only **10**% of your final mark, but doing them is extremely important for your understanding and success in the course!

There will also be **two midterm tests** on Thur **October 16** and Tue **November 18**. The tests will be worth **30**% of your final mark.

The final exam will cover the entire course. It will be worth 60% of your final mark.

Note: If you miss an assignment or midterm for an acceptable reason, write me a note explaining the circumstances and I'll shift the weighting for the missed work to the final exam. Such notes should be submitted within a week of the missed event.

Final exam can be deferred if you have three exams all scheduled within a 24 hour period, or if you suffer bereavement or serious medical problems. Supplementary exams are offered for students whose final mark is 45 to 49 and term mark is at least 50. Deferrals and supplementary exams must be officially applied for using forms that you can obtain from the General Office (HH-3003).

Calculators:

Graphing or programmable calculators are not permitted during exams.

Text and Course Outline:

The official text is <u>Single Variable Calculus</u>, <u>Early Transcendentals</u> by James Stewart, 6th edition, 2008. You are advised to read an appropriate section before starting doing your homework assignment.

We'll cover the following material, which is organized into four units (the class schedule is tentative and may vary):

Unit 1	Integrals	class	book
1.1	Antiderivatives and Indefinite Integrals	Sept 4	4.9
1.2	Areas, sigma-notation	Sept 9	5.1
1.3	Riemann Sum, the Definite Integral	Sept 11,16	5.2
1.4	The Fundamental Theorem of Calculus	Sept 18	5.3
1.5	The substitution Rule	Sept 23, 25	5.5
1.6	Inverse Trigonometric Functions	Sept 30	1.6, 3.6
Unit 2	Applications of Integration	class	
2.1	Exponential Growth and Decay	Oct 2	3.8
2.2	Areas between Curves	Oct 7	6.1
2.3	Volume: the Disk Method	Oct 9	6.1
	Test 1	Oct 16	
2.4	Volume: Cylindrical Shells	Oct 21	6.3
Unit 3	Techniques of Integrations	class	
3.1	Integration by Parts	Oct 23,28	7.1
3.2	Trigonometric Integrals	$Oct \ 30$	7.2
3.3	Trigonometric Substitutions	Nov $4,6$	7.3
3.4	Partial Fractions	Nov 13,20	7.4
	Test 2	Nov 18	
Unit 4	L'Hospital Rule and Improper Integrals	class	
4.1	Indeterminate Forms and L'Hospital Rule	Nov 25	4.4
4.2	Improper Integrals (type 1)	Nov 27	7.8
4.3	Improper Integrals (type 2)	Dec 2	7.8
	Review for final	HH-3026, Dec 2 (lab)	
	Final exam	TBA, Dec. 8-17	