Mathematics 1210 – 2, 3 Calculus I Fall 2009

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Course Website: Office and discussion hours, practice exams, solutions, etc. are posted at **www.utahmath.net** then click on class and then Mathematics 1210.

Office Hours: See course website for times when instructor or assistants are available. The instructor is usually available for help after 1210-3, ending at 11:35 am. There will be a review session before each exam, usually on the Wednesday evening before the exam.

Discussion Hours: Every week there will be (optional) hour-long discussion sessions conducted by the TA's. During these sessions you can get help with homework, course administration, webwork issues, etc. You can go to any session - not necessarily one given by a TA for your section. Schedule of times and rooms to be posted later.

Text: *Calculus*, 9th Edition, D. Varberg, E. J. Purcell and S. E. Rigdon

Course Description: Mathematics 1210 is an introduction to differential and integral calculus. Limits, derivatives, and integrals are developed as tools to analyze the properties of functions. Applications include motion and rates of change, optimization and approximation methods, differential equations, and the calculation of areas, volumes, and lengths.

Course Outline:

August	24-28	PDF	Polynomial Calculus	
	31-4			
September	8-11	0.1-0.7	Real Numbers and Functions	
	14-18	1.1-1.5	Limits	EXAM I (Sept. 18)
	21-25	1.6, 2.2	Continuity, The Derivative	
	28-2	2.3-2.6	Finding Derivatives	
October	5-9	2.7-2.9	Applications of Derivatives	
	10-18		FALL BREAK	
	19-23	3.1-3.4	Maxima and Minima	EXAM II (Oct. 23)
	26-30	3.5-3.7	Graphing, Mean Value Theorem	
November	2-6	8.1	Indeterminate Forms	
	9-13	3.8-3.9	Antiderivatives and Diff. Eqs.	
	16-20	4.1-4.2	Riemann Sums and Integrals	EXAM III (Nov. 20)
	23-25	4.3-4.4	Fundamental Theorem of Calculus	
	30-4	4.5-4.6	Properties of Integrals	
December	7-11	5.1-5.7	Applications of Integrals	
	14-18			FINAL EXAM

Grades and Exams:

- (50%) Your two best scores on three in-class exams − with the lowest score dropped, and NO make-up exams. You may bring one sheet of paper and a calculator to any exam, but NO laptops or wireless devices. Please bring University ID to all exams.
- (25%) Final exam – you cannot drop your final exam score.
- (25%) WeBWorK assignments.

Getting Help.

- **Setting up a webwork account:** In class you'll be given information on how to get into your own Webwork account. If you encounter a problem after trying this, please contact you TA, and give them your full name, course number and section, and your student ID number.
- **Course administration:** Most questions concerning course mechanics, deadlines, how webworks works, etc. should be directed to the TA.
- **Webwork feedback button:** Please use the feedback button within each webwork exercise for a specfic webwork question − all relevant data about your question is sent to the TA. Please don't over-use this option − with so many students the TA's will already be gettting LOTS of emails.
- **Course material and homework:** Please see the instructor or TA for help in understanding the material and with solving the homework.
- **Free tutoring:** Available all day M-F in the Undergraduate Math Center.