Fundamentals of Calculus I (MATH 19, Section D)                      Spring 2008

Time: TTH 10:00-11:15am                                      Place: Lafayette L200

Professor Chris Danforth
Office: Room 207B, 16 Colchester Ave, Telephone: (802) 656-3062
email: chris.danforth@uvm.edu
course website: http://www.uvm.edu/~cdanfort/main/19.html

Office Hours: Tuesday 8:00-9:30am, Thursday 2:30-4pm or by appointment.


Topics:
- Functions and Linear Models, Chapter 1 (2 lessons)
- Nonlinear Models, Chapter 2 (4 lessons)
- Review and Test (2 lessons)
- Introduction to the Derivative, Chapter 3 (6 lessons)
- Review and Exam (2 lessons)
- Techniques of Differentiation, Chapter 4 (6 lessons)
- Review and Exam (2 lessons)
- Applications (3 lessons)
- Final Exam

Goals: Firm up our algebra skills. Understand linear, quadratic, exponential, trig, and other important basic mathematical functions. Find an appropriate model for data. Create, analyze, and interpret graphs. Understand and compute derivatives for the purpose of solving problems.

Grades: There will be weekly quizzes which will total 30% of your grade, three midterm exams worth 45%, and a cumulative final exam worth 25%. You will **not** be permitted to use calculators on any of these quizzes or exams. In borderline situations, class participation will play a role in determining your course grade. There will be no makeup quizzes. Homework exercises will be assigned, but not collected.

Remarks:
- I suggest you go through Chapter 0 and re-familiarize yourself with the wonderful world of algebra. We will be using this stuff all semester, it will be easier if you feel comfortable.
- You are welcome to use a calculator to check answers to homework exercises, however I suggest you use a computer language like Mathematica or Matlab if you plan to continue taking courses in the College of Engineering and Mathematical Sciences.
• The course website has links to solutions for all homework exercises in the text, as well as tutorials designed to aid your learning of this material. I strongly recommend you look at both regularly.

• Please bring your questions about the course material to class and to office hours. Make sure the question is important and can not be answered by a google search if you are going to send an email about it.

• The Math department runs help sessions Monday-Thursday, 5-7 PM, starting Wednesday, January 21 and finishing on Tuesday, April 28. There won’t be help sessions on Presidents’ Day (Monday, February 16), Town Meeting Day (Tuesday, March 3), or during spring break. The room is to be determined. I suggest that if you plan to go for help, don’t wait until the night before the exam to do so.

• Each student is required to visit my office hours at least once during the semester.

• Please bring your textbook to class with you every day.

• I may convey important information to you via your UVM email account. If you do not use your firstname.lastname@uvm.edu account, please have mail from this account forwarded to an account you check frequently. Also, when emailing me, please include Math 19 in the subject line.

• Please turn off your cellphone during class. Students observed texting will lose points for class participation.

• Offenses against academic integrity are any acts which would have the effect of unfairly promoting or enhancing one’s academic standing within the entire community of learners. Such acts are serious offenses, which insult the integrity of the entire academic community of the University. Any suspected violations of the policy will not be tolerated and all allegations will be forwarded to the Center for Student Ethics & Standards.

• UVM, through its ACESsS office, provides accommodation, consultation, collaboration and education support services to students with disabilities. To contact the ACCESS office, go to: http://www.uvm.edu/access/; email them at access@uvm.edu; or call at 656-7753. If you need specific accommodations in this class, please bring a letter from ACCESS as early as possible so that we can make appropriate arrangements (at least 2 weeks before any homework or exam).

• UVM Religious Holidays Policy: Please submit in writing by the end of the second full week of classes your documented religious holiday schedule for the semester. Students who miss work for the purpose of religious observance will be permitted make up this work.