Instructor: Danielle Ledford  
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Office Hours: Tuesdays 2:00-3:00  
Office Location: Lord House (16 Colchester Ave) 107  
Office Hours: Wednesdays 11:00-1:00  
Instructor Website: http://www.uvm.edu/~dledford/  
Please note you will need the MyMathLab Supplement that comes packaged with the textbook. You may opt to purchase the MyMathLab Supplement only, which includes an e-book.  

Course Description  
MATH 19 Fundamentals of Calculus I is the first course in a two course sequence which covers the concepts and applications of differential calculus. This will include functions, limits, continuity, rates of change, derivatives (including implicit derivatives), and derivative applications. The material will be discovered and shown via mathematical modeling of real world situations. An emphasis will be made to understand these new concepts graphically, numerically, verbally, and algebraically. A graphing calculator is highly recommended, but a basic scientific calculator capable of performing exponential, logarithmic, and trigonometric operations is adequate. Any calculators capable of performing symbolic algebra or calculus computations are prohibited. Students will be allowed to use a calculator on all assignments, quizzes and tests, but please be aware that the instructor may ask for all work to be shown in order to receive credit.  

Tentative Course Outline  
Chapter 1 Linear Functions: Sections 1.1-1.2  
Chapter 2 Nonlinear Functions: Sections 2.1-2.6  
Chapter 3 The Derivative: Sections 3.1-3.5  
Chapter 4 Calculating the Derivative: Sections 4.1-4.5  
Chapter 5 Graphs and the Derivative: Sections 5.1-5.4  
Chapter 6 Applications of the Derivative: Sections 6.1-6.2 and 6.4-6.5  
Chapter 13 The Trigonometric Functions: Sections 13.1-13.2  

Course Policies  
Grading Policy:  
- MyMathLab Assignments: 10%  
- Quizzes: 20%  
- Exams (3): 15% each  
- Final Exam (Cumulative): 25%
**MyMathLab Assignments:** Homework is particularly important in a math class, because homework requires you to apply the material learned in lecture to different examples and types of problems. It is through the homework that you will really understand the concepts covered in this course. Following each section covered, each student must log on to the MyMathLab system and complete a companion homework assignment. You will be given several attempts to answer each question, and you can utilize the book as well as aids on MyMathLab to help solve the problems. **You will be allowed to turn in late assignments, but 30% will be deducted. At the end of the semester I will drop the 2 lowest MyMathLab Assignments. The course ID for MyMathLab is ledford51351.**

**Quizzes:** There will be an announced quiz (roughly ten to fifteen minutes in length) just about every week. Quizzes will be on material covered in previous classes and homework. At the end of the semester, the lowest 2 quiz scores will be dropped. For this reason, NO MAKE-UP quizzes will be given for any reason other than religious observances and UVM sanctioned activities.

**Exams:** There will be three in-class exams during the semester, and one cumulative final exam. Exam 1 will tentatively cover Chapters R-2; Exam 2 will tentatively cover Chapters 3-4; Exam 3 will tentatively cover chapters 5-6; and the material on the final exam will be evenly split, covering Chapter 13 as well as the previously examined material. If you need to miss an exam, you must **NOTIFY ME AT LEAST 24 HOURS BEFOREHAND**, otherwise a make-up exam will not be guaranteed. All make-up exams must be completed within a week of the missed exam. Exam dates will be announced as the semester progresses. **Final exam** is December 15 from 4:30-7:15pm in our regular classroom. The date/time of the final is **NON-NEGOTIABLE**.

**Attendance/Class Participation:** You cannot learn mathematics if you are not in class and participating. While there is no formal attendance policy and no direct effect on your grade, should you miss class, it is recommended you get the notes you missed from a fellow classmate.

**Academic Integrity:** All students are expected to abide by the University policies regarding academic integrity ([http://www.uvm.edu/cses/code_ai.html](http://www.uvm.edu/cses/code_ai.html)). Any suspected violations of this policy will be forwarded to the Center for Student Ethics and Standards for further investigation.

**Disability Services:** The ACCESS office at UVM provides accommodation, consultation, collaboration and education support services to students with disabilities. To contact the ACCESS office, go to: [http://www.uvm.edu/access/](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. I will be available to answer any additional questions on the subject via email or during my office hours.

**Note:** This syllabus is subject to revision by the instructor.