

MATH 019: Fundamentals of Calculus

Course Syllabus

Sections N/Q
Fall 2013

Instructor: Eric Clark

Email: eclark@uvm.edu (please put Math019 in the subject line)

Office: Farrell Hall 2nd Floor RM 204 (Trinity Campus)

Office Hours: Tuesday/Wednesday: 12:30pm – 1:45 pm, or by appointment

Text: Calculus with Applications 10th Edition by Lial, Greenwell and Ritchey. (Please note that you will want the Course Compass MyMathLab Supplement that comes packaged with the textbook. You may wish to only purchase the Course Compass MyMathLab Supplement which includes an e-book or electronic version of the textbook. The UVM Bookstore offers both options!)

Course Compass Website: <http://www.coursecompass.com>

Class Coordinates:

Section N Coordinates: Mon/Wed/Fri 1:55 – 2:45pm, Votey 367

Section Q Coordinates: Mon/Wed/Fri 3:00 – 3:50pm, Perkins 300

Course Description:

Fundamentals of Calculus I is the first course in a two course sequence. The underlying applications of differential calculus will be investigated (chapters 1 – 6 and 13 of the Lial textbook). This will include an understanding of functions, limits, continuity, rates of change, derivatives (including implicit), 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. The course work will involve some fairly intense computations and mathematical modeling, and it is required that students purchase or obtain an appropriate calculator. A TI-83/84 Graphing calculator is highly recommended, but a basic scientific calculator capable of performing exponential, logarithmic and trigonometric operations is adequate. 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.

Course Goals: The motivating goal behind this course is to introduce the basic theory and concepts of differential calculus. Upon the successful completion of the course: a student will have stronger quantitative reasoning skills, a student will have enhanced his or her problem solving techniques, and a student will be prepared to take Math 020.

Grading Breakdown:

The grading system is as follows:

- COURSE COMPASS ASSIGNMENTS (15%)---

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- Following each section covered, each student must log on to the CourseCompass

MyMathLab system and complete a companion homework assignment that follows the material covered in class. You will be given several attempts to answer each question, and you can utilize the book and all of the aids offered within the CourseCompass system to help solve the problems. Each assignment should take roughly 45 minutes to complete, and you will have several days to complete the assignments. This average will count towards 15% of your final grade. The COURSE ID for both sections is clark17538.

- *CLASS QUIZZES (15%)*---
 - Each week, usually on Friday, we will have a short 10 – 15 minute quiz at the end of class. The quiz will cover very basic problems from previous lectures and will be a chance to show me that you are keeping active with the course materials. All quizzes are closed notebook, and each quiz will be weighted the same. After the last quiz has been taken, I will drop the lowest 2 quiz grades and average the remaining grades. This average will count towards 15% of your final grade.
- *TESTS (40%)*---
 - There will be two midterm tests. All tests are closed notebook. Each test will count towards 20% of your final grade.
- *FINAL EXAM (30%)*---
 - There will be a cumulative final exam given at the end of the semester. The final exam is closed notebook. The final exam will count towards 30% of your final grade.

Final Exam Time: TBA

Expectations:

Students are expected to act in accordance to the rules outlined in the schools Classroom Code of Conduct. A copy can be found online. In addition to these rules, students shall respect the thoughts and ideas of both the instructor and the other students present in the class. The instructor shall also adhere to these same rules. Also, please turn off all cell-phones, pagers, walkmans, CD-Players, mp3-Players, and any other noise making doodads during the class.

Late Work/Absences:

If you miss a Quiz for a non-sanctioned UVM event, you will receive a 0% on this quiz. Remember that I will drop your two lowest grades. CourseCompass assignments submitted late will incur a penalty. The penalty for late CourseCompass assignments is stated on the specific assignment. Make-up tests will be given if an emergency arises.

Academic Assistance:

Students with documented learning disabilities are entitled by law to certain “reasonable accommodations.” If you have a documented reason for special accommodations, you must provide written evidence of this as soon as possible from the appropriate office. Further info can be found at the Academic Support Program Offices. Attendance: In accordance with University Policy, I will allow for students to miss classes due to religious observance, a varsity sporting match or any other activity stated in the UVM attendance policy. All requests for missed classes should be submitted in writing to the instructor as soon as possible.