Instructor: Mark Reeder, Maloney 519, reederma@bc.edu

Office hours: Mon 2-3, Tue 3-4, Fri 3-4 and by appointment.

Email is good for quick questions and hints.

Teaching Assistant: Hao Li, Maloney 537, hao.li.3@bc.edu, Office hours TBA.

Discussion sections: In addition to the MWF lectures given by the instructor, there are once-a-week discussion sections MATH114601 (8:00) and MATH114602 (9:00) which meet on Tuesdays in Gasson 310. You must be registered in one of these sections. Discussion sections are led by the TA, and will include homework discussion, examples, and occasional new material. This is also a place for students to ask questions in a smaller group setting.

Course website: https://www2.bc.edu/mark-reeder/102.html

Text: There is no textbook to purchase. The text for the course consists of the notes here:

https://www2.bc.edu/mark-reeder/1102notes1.pdf

These notes may be updated as the semester progresses.

Course Topics: This course is a thorough introduction to differential calculus, followed by a brief introduction to integral calculus. “Thorough” means Calculation, Application and Theory (with some proofs). See the table of contents of the notes for more precise course topics.

Prerequisites: This is an introductory calculus course; no prior knowledge of calculus is required. However, students are expected to have a thorough understanding of high school algebra, trigonometry and geometry. You are also expected to have high motivation for mathematics. (See Placement below.)

Homework: It will be assigned and collected every week, approximately. HOMEWORK WILL NOT BE ACCEPTED AFTER THE DAY IT IS DUE. Your lowest two homework scores will not count, so missing up to two assignments will not harm your grade. You can discuss homework problems with others, but what you hand in should be your own work. Write neatly and staple the pages in the upper left corner. Sloppy homework may be rejected.

Exams: We will have two in-class exams on Friday September 29 and Wednesday, November 8, along with a final exam Friday December 15 at 12:30 pm.

Calculators, phones and other electronic devices may NOT be used on any exam. Using an electronic device will be considered as cheating. See www.bc.edu/integrity.

Cheating on any exam will result in a failing grade in the course!
Make-up policy: Unexcused absence from an exam results in a zero score. No exceptions. If you have a legitimate reason for missing an exam, you must arrange to take the exam before the scheduled day of the exam. If you are sick on the day of the exam, or have a family emergency, etc. go to Health Services or your dean’s office; they will provide me with documentation of your illness or emergency.

If you are a student with a documented disability seeking reasonable accommodations in this course, please contact Kathy Duggan, (617) 552-8093, dugganka@bc.edu, at the Connors Family Learning Center regarding learning disabilities and ADHD, or Paulette Durrett, (617) 552-3470, paulette.durrett@bc.edu, in the Disability Services Office regarding all other types of disabilities, including temporary disabilities. Advance notice and appropriate documentation are required for accommodations.

Grades: The scores are weighted as follows. Homework: 30%, Exams: 20% each, Final: 30%. At the end of the course you will receive a number $N$, using this formula:

$$N = \left( \frac{3}{10} \times \text{HW \%} \right) + \left( \frac{2}{10} \times \text{Exam 1 \%} \right) + \left( \frac{2}{10} \times \text{Exam 2 \%} \right) + \left( \frac{3}{10} \times \text{Final \%} \right)$$

Your grade will be determined by your value of $N$, based on the following two rules: 1) Any student with the highest $N$ gets an A. 2) Students with nearby $N$’s receive nearby grades.

Placement: This course MATH1102 is designed for beginning math and physical science majors (math, chemistry, geophysics, physics), who have high motivation for mathematics. It is substantially more challenging than MATH1100, which is for everyone else. No prior experience with calculus is required or assumed, but we do expect you to have a strong background in algebra and trigonometry, as well as high motivation for mathematics.

If you’ve had calculus in high school, but do not have high motivation for mathematics and are taking MATH1102 because you think it will be an easy class since you “already learned calculus” you will not be happy here, and should instead take MATH1102. But if you’ve had a semester of calculus already and want to learn more and be challenged, this is the course for you!

For a complete walk-through of Calculus placement, please see

https://www.bc.edu/bc-web/schools/mcas/departments/math/undergraduate/about-calculus.html

Advice:

1. Attend all discussions. These will have more examples, help with homework, and occasionally new material will be sometimes covered in recitations.

2. Ask questions when you have them! You can ask questions at any time during lectures and discussions, and of course during office hours. Please do not be shy about asking questions in class. If you have a question probably many others also have that same question, and that helps me know what questions I should address.

3. Do some math every day; this is better than cramming the night before.