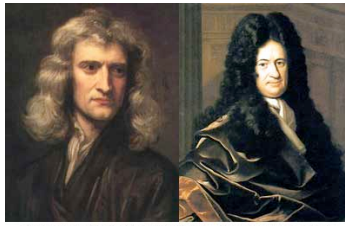


Mt100/121 Calculus I

Fall 2009

Prof. Keane
Syd Amit



Sir Isaac Newton (left) and Gottfried Wilhelm von Leibniz (right)

This is an introductory course in differential calculus, with an emphasis on problem solving, using algebraic, numeric, graphic, and verbal tools. Topics to be covered include a review of the major classes of functions (polynomial, exponential, logarithmic, and trigonometric); the derivative and its various interpretations; ways to calculate the derivative; and applications of the derivative, including optimization.

Mt100

Section 11: Carney 206
MWF 12

Section 9: Fulton 230
MWF 3

Mt121

Section 21: Carney 302
Th 11

Section 22: Carney 302
Th 2

Section 23: Carney 302
Th 3

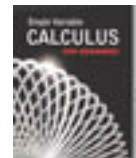
Section 24: Carney 302
Th 10

Prerequisites

Students must be familiar with the usual content of precalculus: algebra, analytic geometry, and trigonometry. No prior exposure to Calculus is assumed or necessary.

Text

Single Variable Calculus, Early Transcendentals
Rogawski
W. H. Freeman



Calculator

You may find a graphing calculator useful for the course, but none is required. For classroom examples and displays, I may occasionally use a TI-83, a computer graphing utility, a computer algebra system, or some dedicated websites



Exams

Midterm Exam 1: Friday, October 2
Midterm Exam 2: Friday, October 30
Midterm Exam 3: Friday, December 4
Comprehensive Final Exam: Monday, December 14

Online Homework

Online homework will be assigned at each lecture, due at noon of the day of the next lecture. We will be using a system called *WebAssign*. Begin by going to the website

<http://www.webassign.net/>

Click [Have a Class Key?](#) Now enter the key for your section of Mt100:

Section 11: bc 6157 6199

Section 9: bc 0778 1866

You will be asked for an access code (which came with your textbook if you bought it new at the BC Bookstore), or to purchase one with a credit card.

You eventually reach this class's home page, with a list of assignments. Click on the current one, and you can begin working on it. For each question you'll have 3 chances (or submissions), and each time you do, you'll get immediate feedback. Only your last submission will be counted.

The User's Manual and help are always available online.

Written Homework

Written homework will also be assigned each day. These will be collected once a week, usually on Friday. There are strict rules for homework submission:

- Use 8.5×11 paper; not pages torn from a notebook.
- Staple multiple pages; do not fold or paper clip.
- If it's illegible, we'll reject it. In particular, don't cross out; neatly erase or do it over.
- No late homework. Period.

Credit Breakdown

Midterm Exams	51%
Homework:	16%
Final Exam	33%

Outside Class

My office is Carney 319, and my regular office hours are MWF 1:30-2:30. Syd Amit's office is Carney 360 and his office hours MWF 11:00-12:00. If you have questions or need help, and can't make these times, just see me or Syd and we'll arrange an appointment.

You have two sources for free tutoring:

- ❶ The Connors Family Learning Center in the O'Neill Library offers free tutoring, by appointment, throughout the academic year.
- ❷ The Mathematics Society runs a free, walk-in tutoring program. This service will begin during the second week of the semester, and we'll announce the details.

Miscellaneous Comments

- ❶ I will give a makeup exam only for very serious reasons; if at all possible, these should be documented **in advance** through the office of your Dean.
- ❷ I expect you to maintain the highest standards of academic integrity. Principles and procedures are outlined by the University; read the policy statement on integrity on the BC website. In particular, I will report any violations to your Dean; sanctions will be, at minimum, failure in the course.
- ❸ All classes will begin promptly. To avoid disruption, be on time, turn your cell phone **off**, and have enough foresight that you do **not** have to leave until the break. In particular, you may not leave the room during an exam.
- ❹ I'll post all materials (including solutions to exams) on the course Blackboard site. To access this site, visit

<http://cms.bc.edu>

You'll be prompted for your BC username and password. You can then see all available sites for any courses you're taking.

- ❺ You can always reach us by e-mail: keane@bc.edu and syd.amit@bc.edu.