Syllabus

Instructor:
Charles Collot
Room 604, Warren Weaver Hall, Courant Institute
cc5786@nyu.edu

Website:
The course website is available through NYUClasses. There is also a common website for all sections of Calculus I here.

Note: Questions concerning course material or general logistics of the course should be directed to the class Chat, which is available through the course NYUClasses. Emails concerning issues of a more personal nature should be sent to the instructor (Collot). However, before sending an email that concerns logistics, please check the Syllabus, the Announcements on the course NYUClasses, and the common website for Calculus I above, for relevant information.

Class times:
Lectures: Mon. & Wed. 12:30-13:45 PM 5 Washington Place, Room 101 (Collot).
Recitation 027: Tue. 9:30-10:45 AM Waverly Building, 24 Waverly Place, Room 569 (Kone).
Recitation 028: Tue. 9:30-10:45 AM 60 Fifth Avenue, Room 161 (Wu).
Recitation 029: Thu. 9:30-10:45 AM GCASL, 238 Thompson Street, Room 375 (Wu).
Recitation 030: Thu. 9:30-10:45 AM GCASL, 238 Thompson Street, Room 288 (Kone).

Note that certain lectures and recitation will be rescheduled if an holiday occurs. The above class times should be up to date on the NYUClasses website’s agenda.

Office hours:
• Charles Collot (Instructor): Monday & Wednesday 18:00-19:00 PM, in Room 604 of Warren Weaver Hall, Courant Institute.
• Xiaoman Wu (TA): Tuesday, 14:00-16:00 PM, 60 Fifth Avenue Room 540.
• Hassane Kone (TA): TBD.
• Drop-in free tutoring available through the Math department (WWH 524) and University Learning Center. See below for additional information.

Note that certain office hours will be rescheduled if an holiday occurs. The NYUClasses website’s agenda should be up to date.

Textbooks:
• Essential Calculus, Early Transcendentals, 2nd edition, by Stewart.
• You are not required to purchase a physical copy of the textbook, but you are welcome to do so. You are required to purchase a WebAssign license (this includes a digital copy of your textbook).
Course Outline:
This course is a first semester calculus course where we will cover single variable calculus concepts for one real variable functions. Some key topics that will be covered include: functions, trigonometric, inverse, logarithmic, and exponential functions, derivatives, antiderivatives, and integrals of one variable functions. We will then explore how the mathematical concepts of integration and differentiation are the natural result of an investigation into the nature of the physical world and apply these concepts to maximize and minimize functions.

Prerequisites: All students wishing to enroll in Math 121 Calculus 1 are required to satisfy one of the conditions listed on the Mathematics Department CAS Calculus Information page.

Note: Last day to drop the course is Monday, September 17th.

Grading:
Grades will consist of four elements: quizzes, homework, discussion work, and exams.

- Quizzes: 10% (weekly).
- Written homework: 10%.
- Webassign homework: 5%.
- Recitation participation and attendance: 5%.
- Midterms: 40%.
- Final: 30%.

Homework:
There will be two forms of homework assignments: written assignments and WebAssign questions.

A written homework set will be assigned on NYUClasses on Wednesdays of each week (including the first week). The written homework will be collected the following Wednesday at the start of lecture. These problems will require more than just procedure, might connect two or more things together, and will more closely resemble the harder exam problems. The lowest homework grade will be dropped.

Check NYUClasses for the scheduled Webassign problems.

Quizzes:
There will be a quiz every week during recitation. The lowest quiz grade will be dropped.

Exams:
There will be two midterm exams on October 10th and November 12th.

The final exam will be held on:
Wednesday, December 19th 2018 at 10:00-11:50AM. Location will be announced later.
Note that the final exam is cumulative.

CLASS POLICIES:
At all times, students are expected to adhere to the NYU University Policy on Student Conduct. If
a student is suspected of cheating, a letter will be sent to the NYU Office of Community Standards, and they will handle the issue.

Five days after graded papers are returned the grade becomes final. You should have any grading errors corrected during those seven days. If you have any dispute with the grading, you should contact your instructor (Collot) during the week after graded papers are returned.

No make-up exams are given. A missed quiz/exam is zero points. A missed exam or quiz without a valid reason counts as 0 points. Only reasons involving major medical incidents, grave family emergency and university athletics are valid excuses for missing an exam or quiz, and students must provide appropriate documentation. Whenever possible, advanced notice must be provided.

Calculators are NOT allowed on exams and quizzes. Books, notes, laptops, cell phones, etc are not allowed. If you want a clock/watch during exams, be sure to bring one, but you will not be allowed your cell phone as a clock.

Students must inform the instructor of any essential information as soon as possible. Two examples of "essential information" are:

- Disabled Students: Disabled students would need a longer period of time for exams (as determined by the Moses Center for Students with Disabilities) should contact the instructor at the start of the course. You will not be given extra time if you present this information just before an exam.

- Student Athletes, etc.: Students participating in an official university athletic, musical, or similar event, which will cause them to miss an exam, should contact the instructor as soon as they know of a scheduling conflict.

General Advice:
Read the textbook regularly. For each hour of the lecture, you should read the corresponding sections of the book for at least 1 hr and spend another 1-3 hours solving homework problems - not necessarily only those problems that have been assigned. (Note: According to the Carnegie Rule, 8-12 hours of outside-of-classroom study time is required to succeed in a typical 4 hour/week college course.)

Pay attention to word problems/applications. One of the goals of this course is to teach you to translate verbal descriptions of physical phenomena into mathematical language, solve problems and relate mathematical conclusions back to the science (biology, physics, etc.). In the homework problems and tests, explain your train of thought by writing clearly, orderly and legibly.

Attend the lectures regularly! Attend office hours as much as possible - they can be amazingly helpful. To make the most of them, you should first read the text and try the homework problems yourself before coming to office hours.

Discuss the material/homework problems with other students in the class. Form study groups. Seek help through the NYU learning skills center (see below).

Other Resources:
1. The University Learning Center
   [http://www.nyu.edu/ulc](http://www.nyu.edu/ulc)
   The NYU Learning Center provides free tutoring to all NYU students and runs drop-in individual tutoring sessions, group review sessions, as well as provides many skills workshops. The locations are the following:
   
   - ULC@ARC, Academic Resource Center, 18 Washington Place, Lower Level.
   - ULC@UHall*, 110 East 14th Street, top of stairs by UHall Commons.
   
   The specific scheduled hours for Calculus I are (check the website to confirm hours):
   
   - ULC @ UHall: Sundays: 2:00 - 10:00pm, Mondays: 12:00 - 3:00pm; 5:00 - 10:00pm, Tuesdays: 12:00 - 2:00pm; 4:00 - 10:00pm, Wednesdays: 5:00 - 10:00pm, Thursdays: 12:00 - 4:30pm; 5:00 - 8:00pm.
   - ULC @ ARC, Sundays: 6:00 - 10:00pm, Mondays: 12:00 - 10:00pm, Tuesdays: 12:00 - 10:00pm, Wednesdays: 2:00 - 9:00pm, Thursdays: 12:00 - 2:00pm; 5:00 - 10:00pm, Fridays: 12:00 - 6:00pm, Saturdays: 2:00 - 6:00pm.
   
   For the group sessions, visit the website and: [https://www.nyu.edu/students/academic-services/undergraduate-advisement/academic-resource-center/tutoring-and-learning/group-review.html#stats](https://www.nyu.edu/students/academic-services/undergraduate-advisement/academic-resource-center/tutoring-and-learning/group-review.html#stats)

2. The Math Undergraduate Tutoring Center
   [http://math.nyu.edu/dynamic/undergrad/tutoring/](http://math.nyu.edu/dynamic/undergrad/tutoring/)
   Another free tutoring option is available to all NYU students through the Mathematics Department. Please visit the link above and click on the Room numbers to see the tutoring schedule. The tutoring sessions take place in Warren Weaver Hall, Room 505 and 524. No reservation needed!

3. Online resources
   Calculus information of all types can be found at [calculus.org](http://calculus.org) and [http://www.khanacademy.org/math](http://www.khanacademy.org/math)