

**Mathematics UN1101
Calculus I
Section 001 and 002
Fall 2019**

Instructor: Daniele Alessandrini.
Office: 624 Mathematics.
Office hours: Mo., We. 11:30am-12:30pm.

Classroom: 203 Mathematics.
Lectures: Section 001 Mo., We. 10:10am-11:25am; Section 002 Mo., We. 2:40pm-3:55pm.

Required text: Calculus: Early Transcendentals, 8th edition, by James Stewart (CENAGE Learning). The book is available at the Columbia bookstore.

Prerequisite: No formal pre-requisites; an understanding of pre-calculus will be assumed.

Course outline: In this course we will describe some basic ideas and techniques that lie at the foundation of all pure and applied mathematics. We will discuss about functions and their limits, derivatives and integrals. We will focus on their meaning, significance, applications and methods of computation. We will use the first six chapters of the course textbook (Calculus, Early Transcendentals, by Stewart).

Contacting me: By e-mail at daniele.alessandrini@gmail.com.

Electronic devices: Phones and other electronic devices must be silenced and put away during classes and exams.

Assignments: Written assignments will be due on Wednesdays at 11pm in one of the collection boxes on the fourth floor of the Mathematics Hall, beginning on September 18. We *will* accept late assignment, but we deduct 15% for every day of lateness. Assignments will *not* be accepted in electronic form; only a physical copy in the collection box will be accepted. We encourage collaboration on assignments, but all solutions must be written up by you alone in your own words.

Midterm exams: There will be midterm exams in class on Wednesday October 2nd and on Monday November 18.

Final exam: The final exam is currently projected for Wednesday December 18. For Section 001, 9am–Noon; for Section 002, 1:10-4pm. The date will be confirmed in November.

Exam details: You *must* plan to take the midterm and final exams at the scheduled time, so please make your travel plans accordingly. Besides students with disabilities having prior arrangements with ODS, the only exceptions will be for those with an incapacitating illness, a serious family emergency, or situations of comparable gravity. In the first case you will need a note from a doctor; in the other cases you will need a note from your advising dean. Incompletes can be granted only by your advising dean and only in the circumstances mentioned above. Anyone guilty of academic dishonesty, such as cheating on an exam or helping someone else to cheat, will fail the course and faces further academic discipline.

Grading: Assignments 10%, midterms 25%, final 40%.