Instructor:
Rahul Krishna (Math Department, Room 206A), email: krishna@math.columbia.edu. The TA for this class is Zhuhai Wang. He can be contacted at zw2175@columbia.edu.

Time and Location:
Monday, Tuesday, Wednesday, and Thursday 4:30-6:05 in Mathematics 520.

Office Hours:
I am available Tuesdays and Wednesdays after class 6:05-7:30 in my office downstairs. If you want to talk, you can either come down and find me there, or just snag me after class.

There are also additional helproom hours scheduled for the class. Zhuhai will be in the helproom (Math 406) from 12PM-4PM on Tuesdays and Thursdays and 10AM-12AM on Wednesdays.

Textbook:
The text for this class is James Stewart’s "Calculus (Early Transcendentals)", 7th edition. Make sure you have the right edition. Otherwise, the problems I assign will not sync up with the problems in the book. Homework assignments will often come from this book, so you should have a copy. If you would also like a supplementary text with a different (read: harder), more proof-based approach, another nice book is Apostol’s "Calculus."

Grading:
There will be biweekly assignments, two midterm exams and a final. Grades will be computed based on the following scheme

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<thead>
<tr>
<th>Assignment</th>
<th>30%</th>
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<tr>
<td>Midterm I</td>
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<tr>
<td>Midterm II</td>
<td>20%</td>
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<tr>
<td>Final</td>
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Homeworks will be posted online after lecture on Monday and Thursday and are collected on Monday and Thursday as well. Monday assignments are due on Thursday of that same week; Thursday assignments are due on the following Monday. Always show all of your work on homework to receive full credit. Copying someone else’s work, whether in homework or on exams, will absolutely not be tolerated. However, when it comes to homeworks you are still encouraged to work in groups and to ask me or your peers for help. Work with other people when you get stuck, just make sure when you write up a problem, it is in your own words.

Miscellany:
There is no WebAssign for this class.

Exams:
There will be two midterm exams. Dates are TBA, however, the first exam will be before the drop date for the class, which is July 27.

Late Policy:
Late work will not be accepted, however your lowest homework score will be dropped. Missing an exam will result in a zero unless you can provide a legitimate excuse with some documentation.
Material:

Roughly Chapters 7-11 of Stewart. This is a continuing course in differential and integral calculus. We will roughly follow the schedule:

Week 1: Review of differentiation and integration, the fundamental theorem of calculus, and integration by substitution. Integration by parts.


See the detailed syllabus for the class-by-class plan.

General Remarks:

This is the second course in the Calculus sequence taught at Columbia University. It is a course in basic differential and integral calculus. Unlike Calculus I, which is mainly focused on concepts, much of the material in Calculus II is focused on techniques and tricks. Therefore, even more than in Calculus I, it is extremely important that you do a large number of problems. This is the only way to learn Calculus. Thus, expect homeworks to long and arduous. On the other hand, if you are suffering over a particular problem or concept in the course, you should talk to someone for help. I am always available by email, and can always set up an appointment, even if it is outside of my regular office hours. Both the TA and the general help-room system are incredibly effective as well. Keep in mind that since this summer class is accelerated, being hung up on something can be extremely destructive.

It is also important to note that, again, since the course is taught at twice the speed of a regular, full semester long Calculus II class, it is crucial that you attend class. Missing two days of class means missing the equivalent of a full week of a regular class, so if you miss class, you will fall behind. Do the reading, come to class, and do the homeworks.