Instructor: Zaher Hani, 720 Warren Weaver Hall (Courant Institute), Email: hani@cims.nyu.edu.

Office Hours: Tuesday 11:00am-12:00pm and Wednesday 4:00pm-5:00pm; also by appointment.

Course Website: [http://www.cims.nyu.edu/~hani/Fall_2012/Linear_Algebra](http://www.cims.nyu.edu/~hani/Fall_2012/Linear_Algebra)

Textbook: The required textbook is: *Linear Algebra and its applications (4th edition)* by David Lay, ISBN-13 978-0-321-38517-8. In case you would like to see different perspectives, further topics, or practice more exercises, here are some extra references you are encouraged to consult:

- *Linear Algebra and its applications (10th edition)* by Gilbert Strang, ISBN-0030105676. (This textbook is often used as an alternative to our textbook).
- *Linear Algebra (4th edition)* by Friedberg, Insel, and Spence, ISBN-0-13—88451-4. (This textbook emphasizes proofs more than computations and focuses on vector space/linear transformation point of view as opposed to the matrix point of view. Its level is probably a bit higher than that of Lays textbook.)
- *Schaums Outline of Linear Algebra (4th edition)* by Seymour Lipschutz and Marc Lipson. (This is an exercise textbook in case you liked to flex your Linear Algebra muscles).

Prerequisites: Calculus I (Math-UA:0121) with a C or higher (or the equivalent).

Homework: There will be weekly homework sets posted on the course website (or on Blackboard). Homework is due every Thursday at the beginning of class. In fairness to your fellow students and to our grader, late homework won’t be accepted. However, you do get a free pass: the lowest grade of your homework will be dropped at the end of the course.

Grading: Your final grade will consist of four components: homework average, quiz average, midterm grade, final exam grade.

- There will be a number of quizzes (four to six) throughout the semester to test your basic understanding of the concepts. Those will be administered in class for 10-20 minutes. Your quiz average will be calculated after dropping your lowest score.
- We will have a midterm exam sometime early-mid October.
- The final exam time has not been announced yet.

Grade Scheme: Homework 30%, Quizzes 15%, Midterm 20%, Final 35%.

Extra Info:
• It is very important that you read the textbook along with your class notes (in case you decide to take any) when studying for class and before you attempt your homework sets. The book offers several important examples and computations that we might not be able to go over in class.

• Please consult our extended syllabus at the link below for further information about the course including topics and a tentative schedule.
  https://sites.google.com/a/nyu.edu/math-ua-140-linear-algebra-fall-2012/home/syllabus