Time:
M, T, W, Th 11:00 AM-12:50 PM.

Text:
Linear Algebra, Jim Hefferon. The book can be download for free from the website of the author: http://joshua.smcvt.edu/linearalgebra.

Prerequisites:
Placement by examination; any mathematics course numbered 10 or above; or MATH 5a AND permission of the instructor. For the placement exam, see: http://www.brandeis.edu/registrar/newstudent/testing.html.

Exams:
There will be two midterm exams and a final exam. Tentative exam dates:
• Exam 1: TBA
• Exam 2: TBA
• Final Exam: July 7th or 8th.

Midterm exams will be held in class. If you have an academic conflict (such as a class, lab, or another exam) with the final exam, inform the instructor at least one week before the exam. If the conflict can’t be resolved, we will offer you a make-up exam.

Grades:
Your grade in the course will be based on the following:
• Homework (10% of your grade).
  – Homework assignments will be collected twice a week.
  – No late homeworks will be accepted, but your two lowest homework grades will be dropped.
  – We encourage you to discuss homework problems with your classmates, but you must write up your own solutions. You may not use any solution manuals.

• Quizzes (10% of your grade).
  – Short quizzes will be given regularly.
  – No make-up quizzes will be given. Missed quizzes count as zeroes. However, the lowest 25% of your quiz grades will be dropped.

• Two midterm exams (each 25% of your grade).
• Final exam (30% of your grade).
Calculators:
Calculators are not allowed during exams or quizzes. You should have access to a scientific calculator for homework (an online one is OK), but you do not need a graphing calculator.

LATTE:
All course materials for Math 15A will be available online on LATTE. Log in at http://latte.brandeis.edu using your Unet username and password.

Students with disabilities:
If you are a student who needs academic accommodations because of a documented disability, please contact me and present your letter of accommodation as soon as possible. Visiting students who have questions about documenting a disability or requesting academic accommodations, should contact Gwenn Smaxwill, Summer School Director (x63424) or smaxwill@brandeis.edu. Letters of accommodation should be presented at the start of the semester to ensure provision of accommodations. Accommodations cannot be granted retroactively.

Academic Integrity:
You are expected to be familiar with and to follow the University's policies on academic integrity (see http://www.brandeis.edu/studentlife/srscs/index.html). Instances of alleged dishonesty will be forwarded to the Department of Student Development and Conduct for possible referral to the Student Judicial System. Potential sanctions include failure in the course and suspension from the University. If you have any questions about how these policies apply to your conduct in this course, please ask.

Learning Goals for Math 15A:
The goal of this course is to learn:

1. vectors and matrices; the determinants of a square matrix; systems of linear equations; linear independence and dependence;

2. linear space and linear map; basis and dimension; change of basis; eigenvalues and eigenvectors.