LINEAR ALGEBRA (MATH 110.201)

Instructor: Giovanni DI MATTEO
Course webpage: http://www.math.jhu.edu/~dimatteo/Linear-algebra-Spring.html

About this course

Topics. This is a first course in linear algebra. Topics will be selected from the following: systems of linear equations, matrices, Gauss-Jordan elimination, linear transformations, matrix multiplication and inversion, image and kernel, dimension, vector spaces, isomorphism, inner product spaces, orthogonality, determinants, eigenvalues and eigenvectors, real quadratic forms. See the course website for a week-by-week schedule of topics.

Prerequisites. The prerequisite for this is a full year of single variable calculus; that is, a grade of C- or better in 110.107 or 110.109 or 110.113, or a 5 on the AP BC exam.

Evaluation

There will be weekly homework assignments, two midterm exams, and one final exam. Your lowest homework score will be dropped from calculation. No late homework will be accepted. Your final grade will be calculated with the following weights:

(1) Homework: 10%,
(2) Midterms: 25% each,
(3) Final exam: 40%.

The first midterm will be held in class on 26 February. The second midterm will be held in class on 1 April. The final exam will be held on 4 May, from 9am to noon; alternate exam times will be arranged for students who have other exams on the same day and time. The final exam will cover the whole semester’s material.

Ethics

It is in your own best interest to conduct yourself honestly in your work. Cheating on homework (for example, by copying solutions from online sources, or from friends) robs you of the opportunity to receive comments on how you understand the subject; to understand new, complicated material, it is important to be honest about what you think you understand, so that errors in thinking can be identified and dealt with quickly. Academic dishonesty may win a short-term goal of scoring a few points on homework, but in exams and in the final you will need to rely on the understanding that you have cultivated through weeks of careful thought.

Moreover, the University has strict rules in place for dealing with cheating. The university will punish cheaters with failure on an assignment, failure in a course, permanent transcript notation, suspension, and/or expulsion. Offenses may be reported to medical,
law, or other professional or graduate schools when a cheater applies. Details on the university’s policies on cheating can be found the student life handbook.1

**Special assistance**

If you are a student with a disability or believe you might have a disability that requires accommodations, please contact Dr. Brent Mosser in Student Disability Services. Please inform the instructor of your disability so that accommodations can be made.

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1See [http://e-catalog.jhu.edu/undergrad-students/student-life-policies/](http://e-catalog.jhu.edu/undergrad-students/student-life-policies/)