Online Linear Algebra, AS.110.201, Summer 2015

Instructors:
Stephen Cattell & Shengwen Wang
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Office: Krieger 411 & 211
Office hours: By Request

Lectures: To be decided, 30-90 minutes Monday through Thursday

Textbook: Linear Algebra with Applications, Otto Bretscher, 5th edition

Adding or Dropping: Please see registrars webpage

Topics we will cover: Linear Systems, Gauss-Jordan Elimination, Matrices, Vector Spaces, Linear Maps, Geometric Interpretation of Linear Maps, Abstract Vector Spaces, Orthogonality, Inner Products, Gram-Schmidt, Determinants, Multilinear maps & Determinants, Eigenvectors and Eigenvalues, Spectrum Theorem

Homework: Homework will be weekly assignments

Tests and Exams: There will be three exams:

- Midterm 1: June 27–29 Saturday to Monday
- Midterm 2: July 17–19 Friday to Sunday
- Final: July 31–August 2 Friday to Sunday

Grading:

- homework: 20%
- tests: 35%
- final exam: 45%
Support: If you have questions or need some help with class material, there are many resources available to you. There’s the Piazza forums and emailing us.

Please do not feel shy about asking for help or just checking that you understand something correctly. If you fall behind, I am happy to help with catching you up, but the sooner you do this, the better. Don’t wait until the day before an exam to catch up on several lectures’ worth of material!

Ask me anything! Don’t feel embarrassed about asking basic questions. These are very often the best questions to ask. Understanding the basics will go a long way towards helping you understand this class, future classes, and any other mathematical endeavors later in life.

Absences: Attendance in lectures is highly encouraged but an occasional absence is not the end of the world. However you will be missing a large portion of the course if you miss even one class. There will be no make-up tests. If you have a valid excuse to miss an tests, you must provide a letter from the Office of Academic Advising verifying this. In this case, your grade for the tests will be the weighted average of your grades in the other tests. If you miss an tests without a valid excuse, your grade will be zero.

Special Aid: Students with disabilities or other special needs who require classroom accommodations or other arrangements must make this known to me as soon as possible at the beginning of the semester, and be registered with the disability coordinator in the Office of Academic Advising.

Collaboration: Collaboration on homework is allowed and encouraged. However, each student must write up his/her solutions to the problems individually and in his/her own words - copying from another student’s paper is prohibited. Homework is an essential part of learning the course material. Failing to give it proper attention will significantly harm your performance on the exams and your overall grade for the class.

Academic Honesty: The strength of the university depends on academic and personal integrity. In this course, you must be honest and truthful. Ethical violations include cheating on exams, plagiarism, reuse of assignments, improper use of the Internet and electronic devices, unauthorized collaboration, alteration of graded assignments, forgery and falsification, lying, facilitating academic dishonest and unfair competition.

Report any violations you witness to the instructor. You may consult the associate dean of student affairs and/or the chair of the Ethics Board beforehand. See the guide on "Academic Ethics for Undergraduates" and the Ethics Board Web site (LINK) for more information.