Instructor: Bernard Chan (bchan at projects.sdsu.edu), GMCS 580.

Lectures: Monday, Wednesday, Friday: 1200 - 1250, GMCS 325.

Office Hours: Monday, Wednesday: 1300 - 1430 or by appointment.

Prerequisites: MATH 245 and 254 or 342A.

Course Objectives: MATH 524 is a second course on linear algebra. Topics such as vector spaces, linear transformations, orthogonality, determinant, as well as eigenvalues and eigenvectors will be explored in more details. Concepts such as congruence, normal form, and inner product spaces will also be discussed.

Website: https://piazza.com/sdsu/fall2013/math524/home

This term we will be using Piazza for class discussion. The system is highly catered to getting you help fast and efficiently from classmates and myself. Rather than emailing questions to the teaching staff, I encourage you to post your questions on Piazza. If you have any problems or feedback for the developers, email team@piazza.com.

Textbook: Linear Algebra (4th Ed.) by Friedberg, Insel and Spence.

Course Outline:

- Vector Spaces
- Linear Transformation
- Determinants
- Eigenvalues and Eigenvectors
- Inner Product Spaces
- Canonical Forms
Grading:

- **Weights:**
  - Assignments 30%
  - Midterm Exams (Date(s): TBA) 30%
  - Final Exam (Time and location: TBA) 40%

- **Scale:**
  - A 88% and above
  - B 78% and above
  - C 68% and above
  - D 58% and above
  - F Otherwise

**Homework:** After each lecture, students are expected to finish the corresponding exercises on the list of suggested practice problems in a timely fashion. For further study, students are recommended to complete other exercises that are not on the list.

**Assignments:** Assignments will be announced in class and posted to the website. I will give ample notice (one week or more) in class if a problem set was to be collected. Generally, you can expect either an assignment or a test every week.

**Midterm Exams:** There are no make-up midterm exams. If you miss an exam due to legitimate reasons (e.g. an emergency or illness), then the corresponding portion will be deferred to your final exam. For example, if you legitimately missed one of the midterms, then your exam will be worth 70% of your final grade.

**Extra Help:** Do not hesitate to come to my office during office hours or by appointment to discuss a homework problem or any aspect of the course.

**Participation:** In class participation is encouraged. If you have a question, ask it! If you do not understand something, say so! Any question that will help you to better understand the material is not stupid. Because of this, I expect you to be patient and respectful of others who ask questions in class or online in an effort to do well.

**Academic Honesty:** Do not cheat and do not plagiarize. Students caught cheating or plagiarizing “may be expelled, suspended, placed on probation or given a lesser sanction...” For the full extend of SDSU’s policy on this matter, please visit http://senate.sdsu.edu/policy/pfacademics.html.

**Important Dates**

- Last day to drop classes without penalty (September 9th)
- Last day of classes (December 11th)

**Addenda:** The instructor reserves the right to make modifications to the syllabus. Any changes will be announced in class and you are responsible for attending class during such announcements.