

Linear Algebra

Class Time: MWF 9-9:50 a.m.

Class Room: MH 565

Instructor: Angel R. Pineda, Ph.D.

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Office Hours: Monday and Wednesday 10-12 p.m., Tuesday 1-2 p.m., or by appointment.

Textbook: Gilbert Strang, *Linear Algebra and its Applications 4th Edition*, Thomson Brooks/Cole 2006.

Course Description:

Linear algebra is beautiful and useful. In this course we will cover the theory and applications of linear algebra by understanding the solutions to linear algebraic equations from many perspectives which will include analysis and computation. In terms of applications, linear algebra is central to the solution of many practical problems with a large number of variables since generally the first step is to linearize them.

Grading:

Homework: and Quizzes (30 %)

MATLAB Projects (5 % each)

Project I: Individual	Project II: Group
Wednesday March 21	Wednesday May 2

Midterm Exams: (15 % each)

Exam I	Exam II
Wednesday Feb. 21	Wednesday April 18

Comprehensive Final (30 %)

Wednesday May 16, 9:30-11:20 a.m.

Tentative Grading Scale

Percent	97-100	93-96	90-92	87-89	83-86	80-82	77-79	73-76	70-72	67-69	63-66	60-62	0-59
Grade	A+	A	A-	B+	B	B-	C+	C	C-	D+	D	D-	F

The exact grading scale will be determined after the final exam. In cases where the grade is on the border of two grades, the instructor may raise the grade based on class participation and improvement during the class.

Class Policies

- Late homework will not be accepted since solutions will be distributed. Failure to attend class on a day of a quiz will result in a zero grade for that quiz. The lowest 2 homework or quiz grades will be dropped.
- No make-up exams will be given, unless you have a medical or family emergency. These emergencies require valid documentation. The grade for a missed exam is zero.
- All exams will be closed book and closed notes, but you will be allowed to bring one sheet of 8" x 11" paper written on one side.

Suggestions

- The course requires a time commitment of about 9 hours outside of class time. The material builds on itself, so it is very important not to fall behind. I suggest you work in groups on your homework but hand in individual solutions, not copied from each other. Doing the homework is when most of the learning occurs. I encourage you to come to office hours regularly. I will do my best to help you.

Academic Integrity

Students who violate university standards of academic integrity are subject to disciplinary sanctions, including failure in the course and suspension from the university. Since dishonesty in any form harms the individual, other students and the university, policies on academic integrity are strictly enforced. I expect that you will familiarize yourself with the academic integrity guidelines found in the current student handbook:

<http://www.fullerton.edu/deanofstudents/judicial/policies.htm>

Examples of actions that constitute academic dishonesty include, but are not limited to:

- Unacceptable examination behavior – communicating with fellow students, copying material from another student’s exam or allowing another student to copy from an exam, possessing or using unauthorized materials, or any behavior that defeats the intent of an exam.
- Plagiarism – taking the work of another and offering it as one’s own without giving credit to that source, whether that material is paraphrased or copied in verbatim or near-verbatim form.
- Unauthorized collaboration on a project, homework or other assignment where an instructor expressly forbids such collaboration.
- Documentary falsification including forgery, altering of campus documents or records, tampering with grading procedures, fabricating lab assignments, or altering medical excuses.

Emergency Evacuation

In the event of an emergency such as an earthquake or a fire:

- Take all your personal belongings and leave the classroom. Use the stairways located at the east, west or center of the building.
- Do not use the elevator. They may not be working once the alarm sounds.
- Go to the lawn area towards Nutwood Avenue. This provides a safe distance from falling debris from buildings. Stay with class members.
- For additional information on exits, fire alarms and telephones, building evacuation maps are located near each elevator.
- Anyone who may have difficulty evacuating the building, please see instructor.