



Syllabus MA35100 Section 041/011 Fall 2023

Course Information

- **MA35100** Elementary Linear Algebra
- **Location & time:** UNIV 119 MWF 9:30-10:20am; 10:30-11:20am
- **Course webpage:** <https://www.math.purdue.edu/~zhan1966/teaching/351.html>

Instructor Contact Information

- **Name of the instructor** [Xiangxiong Zhang](#) (feel free to call me X)
- **Office Location** MATH 406
- **Email** zhan1966@purdue.edu
- **Office hours** 3pm-5pm on Wed, or other time (or through zoom) by appointment.

Course Description

Textbook: Introduction to Linear Algebra, Sixth Edition (2023) by Gilbert Strang.

This is an introductory course focusing on intuition and concepts **without requiring rigorous proof**. If you have taken a linear algebra course before and you are seeking a course with emphasis on proof and rigorous reasoning, consider taking MA353 instead.

Learning Resources, Technology & Texts

- Lecture notes will be posted on course webpage.
- Homework solutions will be posted on brightspace after due day.
- Feel free to discuss homework problems on piazza (Brightspace->MA351->Content->piazza). But you have to write your own homework.
- Recommended reference book: Linear Algebra: Ideas and Applications 4th Edition by Richard C. Penney.

Midterm Exams

Two in-class in-person midterm exams, tentative dates: Sep 27 (Midterm I) and Nov 08 (Midterm II).

Homework Assignments

1. Weekly homework (around 10 in total) will be posted on course webpage.
2. Due on Wednesday before class starts. Submit on gradescope (Brightspace->content->gradescope).
3. **Late homework will not be accepted** but lowest two scores will be dropped in the final grading.
4. OK to discuss it on piazza but you have to write your own homework.
5. The homework problems are graded mainly on your reasoning. It is your responsibility to make your work easy to understand and follow.

Attendance Policy

Attendance is expected. It is unacceptable to miss classes on a regular basis. For University Excused Absences: Grief, Military (e.g. mandatory military training), Jury Duty, Parenting Leave (e.g. pregnancy, birth, or care), and Medical (e.g. medical emergency), requests of absence must go through [Office of the Dean of Students: Class Absences](#).

Grading Scale

The final grading consists of

- 20% homework score
- 20% Midterm I
- 20% Midterm II
- 40% Final Exam

There will be no quizzes at all. The final letter grade be determined as follows:

Students who get at least 97% of the total points in this course are guaranteed an A+, 93% guarantees an A, 90% an A-, 87% a B+, 83% a B, 80% a B-, 77% a C+, 73% a C, 70% a C-, 67% a D+, 63% a D, and 60% a D-; for each of these grades, it's possible that at the end of the semester a somewhat lower percentage will be enough to get that grade.

Intellectual Property

Lecture notes, videos, homework solutions, exam problems and solutions are all copyrighted. Uploading any of these to any forum/website is strictly prohibited.

Academic Integrity

Academic integrity is one of the highest values that Purdue University holds. Individuals are encouraged to alert university officials to potential breaches of this value by either emailing integrity@purdue.edu or by calling 765-494-8778. While information may be submitted anonymously, the more information is submitted the greater the opportunity for the university to investigate the concern. More details are available on our course Brightspace table of contents, under University Policies.

Incidents of academic misconduct in this course will be addressed by the course instructor and referred to the Office of Student Rights and Responsibilities (OSRR) for review at the university level. Any violation of course policies as it relates to academic integrity will result minimally in a failing or zero grade for that particular assignment, and at the instructor's discretion may result in a failing grade for the course. In addition, all incidents of academic misconduct will be forwarded to OSRR, where university penalties, including removal from the university, may be considered.

Nondiscrimination Statement

A link to Purdue's Nondiscrimination Policy Statement can be found here:

https://www.purdue.edu/purdue/ea_eou_statement.php

Accessibility

Purdue University strives to make learning experiences as accessible as possible. If you anticipate or experience physical or academic barriers based on disability, you are welcome to let me know so that we can discuss options. You are also encouraged to contact the Disability Resource Center at: drc@purdue.edu or by phone: 765-494-1247.

Mental Health/Wellness Statement

If you find yourself beginning to feel some stress, anxiety and/or feeling slightly overwhelmed, try [WellTrack](#). Sign in and find information and tools at your fingertips, available to you at any time.

If you need support and information about options and resources, please contact or see the [Office of the Dean of Students](#). Call 765-494-1747. Hours of operation are M-F, 8 am- 5 pm.

If you find yourself struggling to find a healthy balance between academics, social life, stress, etc. sign up for free one-on-one virtual or in-person sessions with a [Purdue Wellness Coach at RecWell](#). Student coaches can help you navigate through barriers and challenges toward your goals throughout the semester. Sign up is completely free and can be done on BoilerConnect. If you have any questions, please contact Purdue Wellness at evans240@purdue.edu.

If you're struggling and need mental health services: Purdue University is committed to advancing the mental health and well-being of its students. If you or someone you know is feeling overwhelmed, depressed, and/or in need of mental health support, services are available. For help, such individuals should contact [Counseling and Psychological Services \(CAPS\)](#) at 765-494-6995 during and after hours, on weekends and holidays, or by going to the CAPS office on the second floor of the Purdue University Student Health Center (PUSH) during business hours.

Emergency Preparation

In the event of a major campus emergency, course requirements, deadlines and grading percentages are subject to changes that may be necessitated by a revised semester calendar or other circumstances beyond the instructor's control. Relevant changes to this course will be posted onto the course website or can be obtained by contacting the instructors or TAs via email or phone. You are expected to read your @purdue.edu email on a frequent basis.