

Linear Algebra

Math 4100-02 Spring 2023 Syllabus

Instructor. Prof Chjan Lim
AE 405

Prerequisite: Ability to read and do proofs

Text: S. Axler, Linear algebra done right, Springer Verlag latest editions

First part of book including SVD from chapters 1 through 6, at average rate of two weeks per chapter. The precise schedule is subject to change and will follow the homework assignments on LMS.

Requirements and grading policy: 10% for attendance, participation in solving probs in class and weekly hwks; hwks will be assigned and submitted only on LMS.

3 hour and half exams worth 20% each open book in class

Final exam is comprehensive and worth 30%, open book.

All tests will be in person on LMS only.

Key to success: ability to do hwks without heavy dependence on soln manual.

While designed for Math Majors, this course has recently been required for some courses such as Machine Learning. As such the grading in this course whilst generous overall, will strictly reflect that a passing grade (of 55 % of total course score) means the student is proficient in deploying LA in applications such as ML.

Cheating on exam will be penalized by loss of grade of that exam plus additional actions per student handbook. Class attendance will be taken by photo recognition.

Students' overall attitudes towards the course and instructor as per Handbook will be reflected in difficulty of final exam, i.e., an easier version will be chosen if for example 70% of students attend in-person class regularly, as indicated by smartphone photos.

Office hours by appointment only