

MTH 309 — LINEAR ALGEBRA 1

Instructor: Matthew Lorentz Email: lorentzm@msu.edu
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Lectures: 1:50 - 2:40pm Mon, Wed & Fri Wells Hall A216

Office Hours: 2:00-3:00 Tue & Thus C318 Wells Hall
(subject to change) 9:00-10:00 Wed C318 Wells Hall

Materials: Linear Algebra with applications, 9th edition
Leon Steven ISBN: 9780321962218

Course description: Matrices, systems of linear equations, vector spaces, linear transformations, inner products and orthogonal spaces, eigenvalues and eigenvectors, and applications to geometry. A writing course with emphasis on proofs.

Prerequisites: (MTH 133 or MTH 153H or LB 119) and completion of Tier I writing requirement. Not open to students with credit in MTH 317H.

Attendance: All students are expected to attend and participate in each class, discussion session, and exam. A student who misses a class meeting is responsible for any assignments and/or announcements made.

Assessments: We will have 3 in class exams, a cumulative final exam, in class activities, and daily homework.

PARTICIPATION / ACTIVITIES:	50 points
HOMEWORK:	200 points
3 IN-CLASS EXAMS, 150 POINTS EACH:	450 points
FINAL:	300 points

Homework: There will be a homework assignment corresponding to each class which may be found on D2L. The homework will consist of exercises from the book and occasionally problems related to class activities.

- The homework will be turned in weekly and is due on Fridays at 11:59pm.
- You will submit your homework on D2L as a *single PDF*.
- Each homework is worth 20 points. I will “randomly” grade two questions in detail worth 5 points each. The remaining 10 points are based on completion.
- Multiple files, or file formats other than PDF will receive little to no credit.
- Late work will not be accepted. Instead your lowest 3 homework grades will be dropped.

Exams: The exam dates are as follows

- (1) September 23
- (2) October 21
- (3) November 18

Attendance on these dates is compulsory; otherwise, a grade of zero will be recorded. Any student who has an excused, documented conflict with an exam time must inform their instructor **within the first two weeks of the semester** when possible. Late requests will either be denied or will result in an automatic deduction from the exam score.

Final: The Final exam will take place on 12/14/2022 from 5:45pm to 7:45pm. All students must take the final.

Grades:

The following table gives a minimum grade for each score. For example, an overall score of 850 is guaranteed to earn at least a 3.5 grade.

Grade	4.0	3.5	3.0	2.5	2.0	1.5	1.0
Score (total points)	900	850	800	750	700	650	600

Sources of help: All students are encouraged to come to *office hours* to discuss homework questions or material from class. If the advertised times do not suit you, please email me for an appointment.

Academic integrity: All students are expected to abide by the university's Conduct Code. Academic sanctions for dishonesty may include receiving an F in the assignment or receiving an F in the class. There may be additional administrative sanctions.

<https://ombud.msu.edu/resources-self-help/academic-integrity>

Classroom policies: Please refrain from using electronic items, including calculators, cell phones, music players, tablets, laptops, etc., during class, except for note-taking. Please arrive, be seated and ready to start each class on time. If you have a valid reason to leave early, please sit near the exit to minimize disruption.

Resource Center for Persons with Disabilities (RCPD): I am happy to work with you and the RCPD Program, if you need course accommodations due to a disability. RCPD is located in Bessey Hall (<https://www.rcpd.msu.edu/services>). All course modifications must be arranged through RCPD. You are encouraged to start this process as early as possible.