

MATH 4242: Applied Linear Algebra (Spring 2019) Section 002/006

Instructor: Dongkwan Kim, Vincent Hall 203B, kim00657@umn.edu

Lectures:

- Section 002: MWF 10:10 AM - 11:00 AM, Vincent Hall 211
- Section 006: MWF 2:30 PM - 3:20 PM, Vincent Hall 113

Office Hours: MWF 11:00 AM – 12:00 PM, MW 1:00 PM – 2:30 PM, or by appointment

Textbook: Peter J. Olver and Chehrzad Shakiban, *Applied Linear Algebra*, 2nd edition

References:

- Gilbert Strang, *Introduction to Linear Algebra*, 5th edition
- <https://ocw.mit.edu/courses/mathematics/18-06sc-linear-algebra-fall-2011/>
(MIT OpenCourseWare)

Course Website: <http://www-users.math.umn.edu/~kim00657/teaching/19s4242/>

Prerequisites: MATH 2243 or 2373 (Linear Algebra and Differential Equations) or MATH 2573H (Honors Calculus III)

Course Objectives: Our goal is to understand how linear algebra can be applied to other fields, such as physics, computer science, statistics, economics, etc. Topics will be chosen in order to reflect students' interest.

Grading Policy: Exam 1 - 15%, Exam 2 - 15%, Final - 30%, Homework - 40%

Exams:

- All exams are closed book and closed notes.
- No calculators are allowed to use on the exams.
- Makeup exams will only be given for serious and unavoidable reasons. In such situations, please contact the instructor in advance. (see <https://policy.umn.edu/education/makeupwork> for more details)

Homework:

- Weekly homework assignments will be given, and no late homework will be accepted.
- You may work with your classmates on homework assignments. However, your solutions must be written in your own words, and you must indicate with whom you collaborated.
- The lowest homework score will be dropped.

Academic Misconduct: Students are required to abide by the Student Conduct Code of University of Minnesota, see https://regents.umn.edu/sites/regents.umn.edu/files/policies/Student_Conduct_Code.pdf. In particular, scholastic dishonesty in any portion of the academic work for a course shall be grounds for awarding a grade of “F” or “N” for the entire course.

Important Dates:

Last day to add the class without college approval	Feb 4
Midterm 1	Feb 27
Midterm 2	Apr 5
Last day to cancel the class without college approval	Apr 8
Last day of instruction	May 6
Section 006 Final Exam	May 11
Section 002 Final Exam	May 15

Additional information:

- Sexual Harassment: https://regents.umn.edu/sites/regents.umn.edu/files/policies/Sexual_Harassment_Sexual_Assault_Stalking_Relationship_Violence.pdf
- Equity, Diversity, Equal Opportunity, and Affirmative Action: https://regents.umn.edu/sites/regents.umn.edu/files/policies/Equity_Diversity_EO_AA.pdf
- Disability Accommodations: <https://diversity.umn.edu/disability/>
- Mental Health: <http://www.mentalhealth.umn.edu/>
- Student Responsibilities: <https://policy.umn.edu/education/studentresp>