



SYLLABUS

MATH 304/505: LINEAR ALGEBRA SPRING 2019

Instructor: Diane Guignard

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Classes: TR 3:55-5:10pm in BLOC 161

Office hours: M 1:00-2:00pm, W 9:00-10:00am or by appointment

Textbook: Linear Algebra with Applications, Ninth edition, by S. Leon, Prentice Hall

Course description and prerequisites:

This is a 3 credit introductory course in linear algebra covering abstract ideas of vector space and linear transformation as well as models and applications of these concepts, such as systems of linear equations, matrices and determinants. Emphasis will be on applications and problem solving. However, the student should be able to do simple proofs.

Prerequisites: MATH 148, MATH 152, or MATH 172; junior or senior classification.

Course outline and suggested schedule:

- Chapter 1 - Matrices and systems of equations: Sections 1.1-1.5 (about 2 weeks)
- Chapter 2 - Determinants: Sections 2.1-2.3 (about 1 week)
- Chapter 3 - Vector spaces: Sections 3.1-3.6 (about 3 weeks)
- Chapter 4 - Linear transformations: Sections 4.1-4.3 (about 1.5 weeks)
- Chapter 5 - Orthogonality: Sections 5.1-5.6 (about 3 weeks)
- Chapter 6 - Eigenvalues: Sections 6.1-6.3 (about 1.5 weeks)

Homework and quizzes:

The homework assignment will be posted weekly on the course's webpage and will not be announced in class. The homework problems will all be from the textbook. Although they will not be collected, doing the exercises is essential to understand and assimilate the material discussed in class.

In-class quizzes (closed book, closed notes) with problems closely related to the assigned homework will be given on a biweekly basis, usually on Thursdays.

Grading Policy:

- Quizzes: 25% of your grade.
- Exam I (February 14): 25% of your grade.
- Exam II (March 28): 25% of your grade.
- Final exam (May 6): 25% of your grade.

Note that each quiz will be weighted equally. The final grade will be computed according to the following scale: A (90%-100%); B (80%-89%); C (70%-79%); D (60%-69%); F (0%-59%).

Attendance and Make-up Policy: Attendance is strongly recommended. Make-ups for missed exams will only be allowed for a university approved absence in writing. Wherever possible, students should inform the instructor before an exam is missed. Consistent with University Student Rules, students are required to notify an instructor by the end of the next working day after missing an exam. Otherwise, they forfeit their rights to a make-up. For more information, see <http://student-rules.tamu.edu/rule07>.

Make-ups will NOT be given for quizzes. However, if you miss a quiz due to an authorized absence and you contact me immediately then the missed quiz will not count.

Americans with Disabilities Act (ADA):

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact Disability Services, currently located in the Disability Services building at the Student Services at White Creek complex on west campus or call 979-845-1637. For additional information, visit <http://disability.tamu.edu>.

Academic Integrity:

The Aggie Honor Code An Aggie does not lie, cheat or steal, or tolerate those who do applies, see also the Honor Council Rules and Procedures at <http://aggiehonor.tamu.edu>. Students are strongly encouraged to work together and discuss homework problems with each other. However, copying or stealing work done by others is an act of academic dishonesty and will be persecuted according to the University policy.

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