

MAT 331. First Course in Linear Algebra
Lixin Shen, Syracuse University
Fall 2018.

Classes: TTh, 11:00am-12:20pm, Carnegie Building, Room 100.

Instructor: Professor Lixin Shen, Department of Mathematics,
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Office Hours: 10:00am-10:50am, TTh, or by appointment

Text: "Linear Algebra and its Applications", 5th edition. Authors: David C. Lay, Steven R. Lay, Judi J. McDonald, Publisher: Pearson.

Prerequisites: MAT 286 or MAT 296.

Course Description: The course discusses linear equations, linear transformations, matrices, determinants and geometric aspects of n-dimensional euclidean space. We will cover Chapters 1,2,3,5,6 of the text with some omissions. If time permits portions of Chapter 4 may also be included. There is a homework assignment for each section (see the attached list of homework problems).

Calculator Policy: You are not allowed to use a calculator or any electronic devices on quizzes, and exams for this class.

Homework, Quizzes: A list of homework problems is included below in the syllabus. Weekly quizzes based on the homework problems will be given. It is your responsibility to do the homework properly and regularly. Attendance and working every day is the key to success in this course.

Exams, Final Exam: There will be two in-class examinations and one final examination during the semester. There will be absolutely no make-ups for any reason. If you miss a test for a valid reason, the final exam grade will count correspondingly. Exams will be preceded by a review. Everyone is required to take the final exam. The examinations are tentatively scheduled as follows:

Date	Exam/Final Exam
10/04	Midterm Exam
11/15	Midterm Exam
12/12	Final Exam

Course Grades: Each exam counts for 25% of your course grade, with the remaining 25% coming from your quizzes and homework assignments. Your letter grade for the term then comes from the following table.

93–100	A	77–79	C+
90–92	A-	73–76	C
87–89	B+	70–72	C-
83–86	B	60–69	D
80–82	B-	0–59	F

Disability-Related Accommodations: Students who are in need of disability-related academic accommodations must register with the Office of Disability Services (ODS), 804 University Avenue, Room 309, 315-443-4498. Students with authorized disability-related accommodations should provide a current Accommodation Authorization Letter from ODS to the instructor and review those accommodations with the instructor. Accommodations, such as exam administration, are not provided retroactively; therefore, planning for accommodations as early as possible is necessary. For further information, see the ODS website, Office of Disability Services <http://disabilityservices.syr.edu/>

Academic Integrity: The Syracuse University Academic Integrity Policy holds students accountable for the integrity of the work they submit. Students should be familiar with the Policy and know that it is their responsibility to learn about instructor and general academic expectations with regard to proper citation of sources in written work. The policy also governs the integrity of work submitted in exams and assignments as well as the veracity of signatures on attendance sheets and other verifications of participation in class activities. Serious sanctions can result from academic dishonesty of any sort. For more information and the complete policy, see <http://academicintegrity.syr.edu>

Religious observances policy: SU religious observances policy recognizes the diversity of faiths represented among the campus community and protects the rights of students, faculty, and staff to observe religious holidays according to their tradition. Under the policy, students are provided an opportunity to make up any examination, study, or work requirements that may be missed due to are religious observance provided they notify their instructors before the end of the second week of classes. For fall and spring semesters, an online notification process is available through MySlice (Student Services → Enrollment → My Religious Observances) from the first day of class until the end of the second week of class.

Section	Homework Problems, Lay, 5th edn.
1.1	11, 13, 15, 17, 19, 23, 24, 25
1.2	2, 5, 6, 11, 13, 15, 19 (find all such values of h and k), 21, 25, 26
1.3	9, 11, 13, 17, 21, 23 (b-e), 25 (b, c)
1.4	1, 3, 7, 9, 11, 15, 17, 19, 21, 23 (b-e), 31, 33
1.5	1, 7, 11, 23, 29, 30, 31, 32
1.7	1, 5, 7, 9, 11, 15, 17, 19, 21, 31
1.8	1, 3, 5, 7, 8, 9, 13, 15, 17, 19, 21, 27
1.9	1, 3, 5, 7, 9, 17, 19, 23
2.1	1, 3, 5, 7, 11, 12, 15, 19, 20, 27, 28
2.2	1, 5, 9, 13, 15, 21, 22, 24, 31, 32, 33, 35
2.3	4, 8, 11, 13, 14, 15, 16, 17, 33, 35
2.7	2, 3, 5, 7
2.8	1, 3, 5, 7, 9, 11, 13, 15, 17, 21, 23, 25
2.9	1, 3, 5, 9, 11, 13, 15, 16, 17, 19, 20, 21, 22
3.1	9, 11, 13, 15, 17
3.2	15, 17, 19, 29, 31, 34
3.3	19, 21, 23, 27, 28
5.1	3, 5, 9, 13, 15, 17, 18, 19, 21, 25, 29
5.2	1, 3, 5, 7, 13, 15, 16
5.3	7, 9, 11, 13, 17, 21, 23, 25
6.1	5, 7, 9, 11, 15, 17
6.2	1, 5, 9, 11, 13, 15
6.3	3, 5, 7, 9, 11, 13
6.4	3, 5, 7, 9, 11