Spring 2015
MAT 331-1: FIRST COURSE IN LINEAR ALGEBRA

Course Instructor: Jack Ucci, Professor of Mathematics; 229B
Physics jjucci@syr.edu 3-1492

Office Hours: MW 9-10 am, and by apt

Course Supervisor: Jack Ucci

Course Hours: MW 8:30 – 9:30 AM and by appointment

Course Information: Course Description: Linear equations, Linear transformations, Matrices, *n*-dimensional Euclidean spaces, Associated geometry.

Course Restrictions: Credit will not be given for both MAT 331 and MAT 485.

Prerequisites: MAT 286 or MAT 296

Textbook: Linear Algebra and its Applications, 4rd edition.
Author: David C. Lay
Publisher: Addison-Wesley

Calculator Policy: You are NOT allowed to use a graphing or symbolic calculator (such as TI-84, TI-85, etc) on homework, quizzes, and exams for this class. Students may need to show work to receive full credit. In particular no use of calculators will be permitted on quizzes or exams.

Homework/Quiz Policy: Homework will be assigned in class (see pages 2,3). A policy for quizzes and homework collection for grading will be announced during the first class meeting. A policy for make-ups for exams, quizzes, and late homework will also be announced.

Grading Policy: Homework/quizzes will comprise 20% of the course grade with two-hour exams each 25% on February 17 and April 2 and the final exam 30%. The final grade will be given according to the following scale:

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

Final Exam Date: The final exam will be given on Monday, May 4, 2015, 8 – 2:30. *Do not plan to leave the campus before 3 PM on this day*.

Students with Disabilities: If you believe that you need accommodations for a disability, please contact the Office of Disability Services (ODS), http://disabilityservices.syr.edu, located in Room 303 of 804 University Avenue, or call 315-443-4498 for an appointment to discuss your needs and the process for requesting accommodations. ODS is responsible coordinating disability-related accommodations and will issue students with documented disabilities Accommodation Authorization Letters, as appropriate. Since accommodations may require early planning and generally are not provided retroactively, please contact ODS as soon as possible. You are also welcome to contact me privately to discuss your academic needs although I cannot arrange for disability-related accommodations.

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.

Please inform me of any problems that you have with the course. Problems not satisfactorily resolved by me should then be brought to the attention of the Course Supervisor.

Section	Suggested Problems
. 1.1	11, 13, 15, 17, 19, 23, 24, 25
. 1.2	2, 5, 6, 11, 15, 19 (find all such values of h and k), 21, 25, 26
. 1.3	9, 11, 13, 15, 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, 28, 29, 30, 31
. 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, 26
. 1.9	1, 3, 5, 7, 8, 17, 19, 23
. 2.1	1, 3, 5, 7, 11, 12, 15, 18, 19, 27, 28
. 2.2	1, 5, 9, 13, 17, 31, 32, 33, 35, 21, 22, 24
. 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