

MAS 3106-1 Spring 2015

Linear Algebra

Prof. **Zhe Liu**

E-mail: zhe.liu@ucf.edu

Office: MSB 420

Lectures: M W F 10:30 AM ~ 11:50 AM (Credit hours: 4), MSB 0204

Office Hours: F 9:00 AM ~ 10:30 AM, or by appointment

Prerequisite: MHF 3302

Textbook

Linear Algebra and its applications by David C. Lay, 4th Ed, ISBN-13: 978-0-321-38517-8

Course Description

Systems of linear equations, Matrices, determinants, vector spaces, linear transformations, eigenvalues and eigenvectors, inner product spaces, quadratic forms

Course Objectives

- Present basic concepts of matrices, vector spaces, linear transformations, inner product spaces.
- Present methods of solving systems of linear equations, computing determinants, computing and using eigenvalues and eigenvectors.

Course Website

- <http://math.cos.ucf.edu/~zheliu/teachingmas3106spring2015/>

Most course material (homework assignments, course calendar, announcements, etc.) will be posted on our course website.

- Grades will be posted on Webcourses@UCF.

Evaluation

- Homework

Homework will be assigned weekly. Homework will not be graded. Extra credits (2 pts) will be given for each turned in and completed homework.

- Quizzes (15 pts $\times$ (7 - 1) = **90** pts)

Weekly quizzes will be given in class on Fridays (see course calendar). Each quiz consists of problems selected from the homework of the week. The lowest grade will be dropped. There will be NO make-up for missed quizzes.

- Exams ($70 \text{ pts} \times 3 = \mathbf{210} \text{ pts}$)

There will be three in-class exams (see course calendar). There will be NO make-up for missed exams. All exams will count toward final course grade. However, if you missed an exam, your final exam “grade” (percentage) may be used (only once) to count as an exam grade.

- Final Exam (**100** pts)

The final exam is scheduled on Monday, May 4, 10:00 AM ~ 12:50 PM. The final exam will be cumulative.

- The **TOTAL** possible points of this course will be **400**.

Course grades will be determined according to the following scale.

A	[360, 400]	[90%, 100%]
B+	[348, 360)	[87%, 90%)
B	[320, 348)	[80%, 87%)
C+	[308, 320)	[77%, 80%)
C	[280, 308)	[70%, 77%)
D+	[268, 280)	[67%, 70%)
D	[240, 268)	[60%, 67%)
F	[0, 240)	[0%, 60%)

Calculators

Calculators are NOT allowed in this course.

Academic Integrity

UCF faculty members have a responsibility for your education and the value of a UCF degree, and so seek to prevent unethical behavior and when necessary respond to infringements of academic integrity. Penalties can include a failing grade in an assignment or in the course, suspension or expulsion from the university, and/or a “Z Designation” on a student’s official transcript indicating academic dishonesty, where the final grade for this course will be preceded by the letter Z. For more information about the Z Designation, see <http://z.ucf.edu>. For more information about UCF’s Rules of Conduct, see <http://www.osc.sdes.ucf.edu>.

Disability Services at UCF

The University of Central Florida is committed to providing reasonable accommodations for all persons with disabilities. Students who need accommodations must be registered with Student Disability Services, Ferrell Commons Room 185, phone (407) 823-2371, before requesting accommodations from the professor.

Religious Policy

It is the practice of the University of Central Florida to reasonably accommodate the religious observances, practices, and beliefs of individuals in regard to admissions, class attendance, and the scheduling of examinations and work assignments. A student who desires to observe a religious holy day of his or her religious faith must notify all of his/her instructors in writing at the beginning of the term (prior to the end of the add/drop period) to be excused from classes to observe the religious holy day. (Please note that documentation may be requested.)

Financial Aid Requirement

As of Fall 2014, all faculty members are required to document students' academic activity at the beginning of each course. In order to document that you began this course, please complete the following academic activity by the end of the first week of classes. Failure to do so will result in a delay in the disbursement of your financial aid.

- Class attendance on Jan. 12, 14.