

Cedar Crest College
Linear Algebra - MAT 311 70 2
Fall 2008
TR 5:30 pm-6:45 pm BHA 6

Professor: Dr. Michael Sarver
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Office Hours
Monday, Wednesday, Friday 9:00 a.m. - 9:50 a.m.
Tuesday 3:30-4:20pm
Additional office hours are available by appointment.

Required Text:

Larson/Edwards/Falvo, Elementary Linear Algebra, 5th ed., Houghton Mifflin, 2004.

Course Description:

This course is a study of Euclidean spaces, general linear spaces and inner product spaces. Topics include linear independence and dependence; bases and linear transformations; matrices and determinants with application to linear systems; change of basis; and representation of linear transformation and inner products. Prerequisite: MAT 142.

Course Outcomes:

- To introduce students to the uses of matrices and determinants in solving systems of equations.
- To introduce students to the general theory of vector spaces and linear transformations.
- To introduce students to the standards and methods of written proofs.
- To develop students ability to read standard written mathematics.

Assessment:

There will be three exams each accounting for 25% of your final average and a cumulative final exam contributing 25%.

The grade scale that I will use to assign final grades is A (93 and up), A- (90-93), B+ (87-90), B (83-87), B- (80-83), C+ (77-80), C (73-77), C- (70-73), D+ (67-70), D (60-67), F(Below 60).

Attendance in class is expected of all students and mandatory on exam days, but it will not be factored numerically into your grade. Make-up exams will be given only with prior notification and documentation of a legitimate excuse.

Notes

- I fully support the Cedar Crest College Honor Code and the Classroom Protocol code as stated in the Customs Book. Appropriate classroom behavior is implicit in the Cedar Crest College Honor Code. Such behavior is defined and guided by complete protection for the rights of all students and faculty to a courteous, respectful classroom environment. That environment is free from distractions such as late arrivals, early departures, inappropriate conversations and any other behaviors that might disrupt instruction and/or compromise students' access to their Cedar Crest College education.
- Students should not make any travel arrangements for the end of the semester until after the final exam schedule is published.
- Cell phones should be turned off/on vibrate for the duration of the class period.
- Collaboration on daily homework is expected and encouraged, but any work turned in for a grade should be your own. Violations of the college plagiarism policy will be reported to the dean and result in a grade of zero for the particular assignment / exam.
- It is vitally important for you to keep current with the work. Students who fall behind early quickly find themselves in a hole that is very difficult, if not impossible, to get out of. I'm more than willing to meet with you during my office hours or otherwise

to help you succeed, but you must make the effort. Feel free to drop by my office, even if it's not my scheduled office hour.

- The format of the course will be lecture/discussion with much emphasis on homework discussion. In order for this to work it is vitally important for you to come to class prepared.
- It will be beneficial for you to have read the day's material before coming to class.
- Students with documented disabilities who may need academic accommodations should discuss these needs with me during the first two weeks of class. Any student who wishes to request accommodations should contact the Advising Center.

Tentative Schedule

Date	Sections
Aug 26	Intro/1.1
Aug 28	1.2
Sep 02	2.1
Sep 04	2.2
Sep 09	2.3
Sep 11	3.1
Sep 16	3.3
Sep 18	3.5
Sep 23	Review
Sep 25	Exam #1
Sep 30	4.1
Oct 02	4.2
Oct 07	4.3
Oct 09	4.4
Oct 14	Fall Break
Oct 16	4.5
Oct 21	4.6
Oct 23	Review
Oct 28	Exam #2
Oct 30	5.1
Nov 04	5.2
Nov 06	5.3
Nov 11	6.1
Nov 13	6.2
Nov 18	6.3
Nov 20	6.4
Nov 25	7.1
Nov 27	Thanksgiving
Dec 02	Review
Dec 04	Exam #3
TBA	Final Exam