Mathematics 143 – SPRING 97

LINEAR ALGEBRA AND CALCULUS
(HONORS)

Line # 42052 – MTWRF 10:30 - 11:20 am – Room: 4076 WESCOE

Instructor:	Prof. Rodolfo H. Torres. Office: 623 Snow – TE : 864–7310. e-mail: torres@math.ukans.edu homepage: www.math.ukans.edu/~torres Tentative Office Hours: MWF 11:30–12:30pm.
Textbook:	*Advance Calculus*, Kaplan, Addison-Wesley (fourth edition).
Calculator:	TI-85 Graphing Calculator or similar.
Prerequisites:	Math 122 or Math 142, or equivalent, and an invitation from the Department of Mathematics.
Enrollment Changes:	Last day of add/drop: January 24. 151 STRONG Hall (All changes: drops, adds).
Withdrawals:	• Jan 13 – Feb 17. *The course is deleted from your record.* • Feb 18 – March 31. A grade of W goes on your record. • April 1 – May 5. Requires a petition to the College of LAS.

Timetable

Exams	Date
Exam 1 (in class)	Wed., February 12.
Exam 2 (take home)	Wed., March 12.
Exam 3 (in class)	Wed., April 16.
Final Exam	Monday, May 12, 7:30–10:30 am.

There will be no make-up exams.

Grading

Your grade in the course will be determined by the number of points that you accumulate. The points are distributed in the following way:

Homework and Special Projects		200 points
In class Exams 1		150 points
Take home Exam 2		200 points
In class Exams 3		150 points
Final Exam		250 points
Participation in class		50 points
	Total	1000 points

Homework and Special Projects

Homework problems will be assigned regularly and they will be collected and graded. Homework is a major part of the learning process in Mathematics. It is essential that students work on the problems on a regular basis. Students are encouraged to work and discuss the problems in groups, but they should turn in individual solutions. Special projects will be done in small groups.

No late assignment will be accepted.

Classes

You are expected to bring your textbook and the calculator every class. You should read the book and attempt to solve some of the problems in preparation for each class.

Topics to be covered

This course covers fundamental material about linear algebra and calculus in several variables which is very important in applications in physics and other sciences. The topics include, linear spaces, linear transformations and matrices, determinants, eigenvalues and eigenvectors, differential calculus of vector-valued functions, multiple integrals, line integrals, surface integrals, and the fundamental integral theorems of the vector calculus. The material is contained in the book in chapters 1 to 5. If time permits some additional topics will be covered.