Math 240: Linear Algebra, Spring 2010

Instructor: Brian Sittinger
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Office: Bell Tower 2105
Office Hours: M 10:45-11:45 AM, T 9:15-10:15 AM, and by appointment
Class Times: MW 12:00-1:15 PM
Class Location: Bell Tower 1704

Prerequisites: Math 151 with a grade of C or better, or equivalent.


Course Website: http://faculty.csuci.edu/brian.sittinger/math240page.html
This may be also directly accessed through Blackboard (CI Learn).

Course Description from the Course Catalog: Topics include matrices, linear systems of equations, determinants, vectors in 2 and 3 dimensions, eigenvalues, the vector space \( \mathbb{R}^n \), linear transformations, introduction to general vector spaces, and applications.

Grading: Grades will be determined as follows:

- Attendance (10%)
- Homework (15%)
- Two Exams (20% each)
- Final Exam (35%)

Attendance: Since we meet only twice a week, attendance is essential. After 3 absences, you will lose one percentage point from your attendance grade for each subsequent absence.

Homework: Homework will be turned in on every Monday (unless otherwise stated) at the beginning of lecture. Make sure that your presentations are well-organised. If you use more than one sheet of paper, please write your name at the top of each sheet, and be sure to staple them all together. This will make my job to grade them much easier.

Exams: The two exams will be given around the 6th and 12th weeks of lecture. According to the Spring 2010 schedule, the final exam will take place on Monday 10 May from 1:00 to 3:00 PM. Unless you have a genuine doctor’s note, you have to take the exams when they are given.
Technological Information and Math 399: We will use MAPLE software and/or graphing calculators during lecture and lab. As you will be using this in some of your homework, please sign up for Math 399 Section 9 (or 3, 4, or 7). Further instructions will be given in the lab.

Extra Help: In addition to myself and your fellow classmates, please check out the Learning Resource Center (in the Broome Library).

Learning Outcomes: Through this course, students will be able to

- Solve general linear systems of equations.

- Compute determinants.

- Analyze invertibility of matrices and compute inverses.

- Use vector techniques in geometric problems.

- Compute eigenvalues and eigenvectors and use them in a variety of problems.

- Use linear transformations in 2 or 3 dimensions.

- Discuss the general concept of vector spaces, linear independence and spanning sets.

- Apply Linear Algebra to a variety of mathematical and non-mathematical disciplines.

- Express ideas of Linear Algebra in oral and written form.

Academic Honesty: Cheating will not be tolerated in this class. For information on the University’s policy, read the University Catalog (“Policies and Regulations”).

Disability Statement: Cal State Channel Islands is committed to equal educational opportunities for qualified students with disabilities in compliance with Section 504 of the Federal Rehabilitation Act of 1973 and the Americans with Disabilities Act (ADA) of 1990. The mission of Disability Accommodation Services is to assist students with disabilities to realize their academic and personal potential. Students with physical, learning, or other disabilities are encouraged to contact the Disability Accommodation Services office at (805) 437-8510 for personal assistance and accommodations.

Disclaimer Statement: Information contained within this syllabus, other than that mandated by the University, may be subject to change with advance notice, as deemed appropriate by the instructor.