

# East Los Angeles College

## Math 270 Linear Algebra Fall 2011

M W 9:00AM - 10:25AM (Sec# 1030)

**Instructor:** Rahim Faradineh

**Textbook:** Elementary Linear Algebra, Sixth Edition

By Larson & Falvo

**Office Hours (Location):**

Mondays & Wednesdays 8:15AM - 8:45AM (E3-101B)

Tuesdays & Thursdays 8:15AM - 10:30AM (E3-101B)

Thursdays (by appointment) 12:00PM - 1:00PM (E3-101B)

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**E-mail:** [rfaradineh@gmail.com](mailto:rfaradineh@gmail.com)

**Prerequisites:** Satisfactory completion of Math 262.

**Materials:**

1. Textbook (Optional but recommended)
2. Graphing calculator.
3. Visit [www.maplesoft.com/members/login\\_forgot\\_password.aspx](http://www.maplesoft.com/members/login_forgot_password.aspx), and become a member.
4. Visit [www.mymathclasses.com](http://www.mymathclasses.com) frequently for additional materials such as homework, quizzes, and handouts.

**Dates to Remember:**

**Drop Deadline:** Last Day to drop without having to pay fees: September 12, 2011.

**Drop Deadline:** Last Day to drop without W: September 23, 2011.

**Drop Deadline:** Last Day to drop classes with W: November 18, 2011.

## Course Policy:

1. It is required and will be assumed that you have read and that you understand the course syllabus.
2. Academic dishonesty of any kind (cheating, plagiarism, etc.) will not be tolerated. Evidence of academic dishonesty is grounds for receiving zero score.
3. I have the right to ask you to provide an official picture-ID card when you are taking any exams, quizzes, and final exam. Until such document is provided, your exam/quiz/final exam will not be graded.
4. You will be dropped from the class if you are consistently late, plan to leave early, or absent for more than five hours of class time. You will be given a courtesy warning prior to such actions taken.

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## Course Objectives:

Upon completion of this course, you should be able to

1. Solve system of linear equations by Gaussian elimination and Gauss-Jordan elimination.
2. Work with matrices, know the properties of matrix operations, find the inverse of a matrix, and work extensively with elementary matrices and their applications.
3. Find the determinant of a matrix, know the properties of determinant, find Eigenvalues, Eigenvectors, and work with applications of determinants.
4. Work with Vector Spaces, Subspaces, Spanning sets, linear independence, basis and dimensions.
5. Work with row and column spaces and subspaces with study of rank.
6. Study of Linear Transformation, kernel and range of a linear transformation.
7. Find length and dot product in  $R^n$ , study of inner product spaces, and Gram-Schmidt process.
8. Work more with Eigenvalues and Eigenvectors and their applications.

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## Exams/Quizzes/Homework:

- |                      |   |                     |
|----------------------|---|---------------------|
| 1. Homework          | → | (15% of your grade) |
| 2. Quizzes           | → | (15% of your grade) |
| 3. Three Class Exams | → | (30% of your grade) |
| 4. Computer Projects | → | (5% of your grade)  |
| 5. Technical writing | → | (5% of your grade)  |
| 6. Final Exam        | → | (30% of your grade) |

## Course Expectations:

1. Arrive on time and stay for the entire session.
  2. Follow instructions and announcements given in class as well as online.
  3. Participate in class discussions while respectful to others.
  4. Be aware of the drop date to withdraw from the class if you wish to do so.
  5. Know that usage of cameras, cellular phones, or tape recorders are not allowed in the classroom. Prior arrangement and agreement to use such equipments is needed.
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## Grading Policy:

Your percentage	Your final grade
90% - 100%	A
79% - 89%	B
68% - 78%	C
50% - 67%	D
0% - 49%	F

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## Important:

1. There will be no make-up for any missed exam/quiz under any circumstances.
2. There will be no early/late arrangement for any exam/quiz under any circumstances.
3. If your final exam score is better than your worst in class exam, then your worst exam will be replaced by the average of your worst exam and your final exam.
4. It is the student's responsibility to compare final exam score with any other exam score and notify me that such action is needed prior to submitting the final grade. Special instruction will be given at the end of the semester.

**HAVE A GREAT SEMESTER**