Math 306 Linear Algebra
Pacific University Spring 2010

Class Time and Location
MWF 10:30-11:20, Price 204.

Instructor Information
Michael Boardman
Price 209, 352-1496
boardman@pacificu.edu
http://www.math.pacificu.edu/~boardman
Office hours:  M 9:00-10:00
            T 11:00-12:00
            W 11:45-12:35
            Th 9:30-10:45

Textbook

Prerequisites
To be enrolled in this course, you should have
- Passed Math 226 with a C or higher.
- Passed Math 240 with a C or higher.

Math 306 as a Prerequisite
Math 306 is required for both the Mathematics and Computer Science majors. It is also a prerequisite for Math 402, Abstract Algebra.

Primary Course Topics
- Modeling with systems of linear equations
- Solving systems of linear equations
- Matrix arithmetic and matrix algebra
- Determinants
- Vector spaces
- Linear transformations
- Inner product spaces
- Orthogonalization
- Eigenvalues and eigenvectors
- Diagonalization
- Hermitian matrices
- Matrix decompositions
- Positive definite matrices

Homework
Homework is assigned and collected weekly. Both completeness and accuracy will determine homework grades. Homework is due at the beginning of class on the due date. No late homework is accepted under any circumstances.

Projects
Several projects involving the use of Maple will be assigned. Projects are due at the beginning of class on the due date. No late projects are accepted under any circumstances.

Exams
We will have two exams and a final exam. See the class calendar for tentative dates of the in-class exams. The final exam is Wednesday, May 19 8:30am-11:00am. You must take the final at this time.

Grades
In determining your course grade, coursework is weighted as follows:

- Homework 20%
- Projects 10%
- Midterms 40%
- Final Exam 30%

The following scale is used to determine final course grades. This scale may change at the end of the term. If so, the cutoffs will not raise.

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>A</td>
<td>[92,100]</td>
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<tr>
<td>A-</td>
<td>[90,92)</td>
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<tr>
<td>B+</td>
<td>[88,90)</td>
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<td>B</td>
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<td>C+</td>
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<td>C</td>
<td>[72,78)</td>
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<td>C-</td>
<td>[70,72)</td>
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<tr>
<td>D</td>
<td>[60,70)</td>
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<td>F</td>
<td>[0,60)</td>
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Important Dates
Feb 12  Add Deadline
Feb 12  Drop w/o “W” Deadline
Mar 20-28  Spring Break
Apr 19  Last day to Drop Courses
Apr 28  Senior Projects Day
May 12  Last Day of Classes
May 19  8:30-11:00 pm Final Exam
May 22  Commencement

Other Policies

Attendance
You are expected to attend all classes. If you cannot make a particular class day, please see a classmate to get notes on material covered. Be aware the make-ups are not available for exams. Also, homework is due by the beginning of class on the due date. If you are ill, or away from class for a university event, you may have someone turn in your homework for you.

Academic Honesty
Pacific University has no tolerance for academic misconduct. It is university policy that all acts of misconduct be reported to the Dean’s Office. Any act of academic misconduct in this course will result in an “F” for the course. Further sanctions may be imposed by the university, including suspension or dismissal from the university. Forms of academic misconduct include but are not limited to plagiarism, fabrication, cheating, tampering with grades, forging signatures, and using electronic information resources in violation of acceptable use policies. All work in this course is expected to be your own. There may be assignments in which you will be allowed to work with a partner, in which case you will equally participate in the completion of the assignment.

Learning Support Services for Students with Disabilities
If you have documented challenges that will impede your learning in any way, please contact EDNA GEHRING the Director of LSS at ext.2107 or gehringe@pacificu.edu The Director will meet with students, review the documentation of their disabilities, and discuss the services that Pacific offers and any ADA accommodations for specific courses.