

<u>Instructor</u>	William Hauser Room 144, 15 St. Mary's Street 617-358-0663 <a href="mailto:wmhauser@bu.edu">wmhauser@bu.edu</a>
<u>Graduate Teaching Fellow</u>	Christopher Bedell <a href="mailto:bedellch@bu.edu">bedellch@bu.edu</a>
<u>Class Hours &amp; Location</u>	Wednesday, 4:00PM to 6:00, STO B50, Stone Science Building, 675 Commonwealth Avenue
<u>Office Hours</u>	Thursday 1:30PM to 4:30PM (email to confirm), or by appointment Recitation sections with GTF Chris Bedell at the times and places you've registered for.
<u>Website</u>	Assignments, notes, and solutions will be posted to the course website: <a href="http://blackboard.bu.edu">http://blackboard.bu.edu</a> .
<u>Textbook</u>	Textbook: Gilbert Strang, <i>Introduction to Linear Algebra, Fourth Edition</i> , Wellesley – Cambridge Press, 2009. ISBN 978-09802327-14 Available through the campus bookstore or through various online sites. This book was used in the fall, so you may be able to buy it from other students.
<u>Catalog Description</u>	Systems of linear equations and matrices. Vector spaces and linear transformation using matrix notation, determinants, eigenvalues and eigenvectors. Examples drawn from engineering applications. Cannot be taken for credit in addition to CAS MA 142 or MA 242.
<u>Course Outline</u>	Attached, but subject to change as the semester progresses.
<u>Grading</u>	Anticipate that the midterm and final will be closed-book.  Your grade will be calculated in three ways. Your grade in the course will be the highest of the following three: <ol style="list-style-type: none"><li>1. Your grade on the final exam.</li><li>2. Your grade on the final exam weighted 60% and your grade on the midterm weighted 40%.</li><li>3. All work in the course weighted as follows: final – 30%, midterm – 20%, attendance and participation – 10%, homework problem sets - 40%. <i>See additional remarks below about homework.</i></li></ol>
<u>Homework</u>	Problem sets will be assigned approximately bi-weekly. Since the class meets for fifteen sessions, you should expect six or seven problem sets. Your homework grade will be calculated as the average of the five highest scores. If you submit fewer than five problem sets, your homework grade

will be the sum of your submitted work, divided by five. Homework will be due at the dates and times indicated on the assignment. Late homework will not be accepted. Makeup assignments will not be given.

Note on  
Academic  
Standards

Although you may discuss the content of a problem and various approaches to solving it with classmates, you are expected to formulate, analyze, and write all solutions to homework problems yourself. Copying the work of another student, or copying from any other source, is cheating and will not be tolerated. The use of calculators, computers, cell phones, or other devices in exams, except as explicitly authorized, is forbidden.

Course  
Outline

Subject to change as the semester progresses.

- Class 1 Introduction
- Class 2 Vectors, Matrices, Systems of Equations
- Class 3 Solving Linear Equations: Part 1
- Class 4 Solving Linear Equations: Part 2
- Class 5 Vector Spaces and Subspaces
- Class 6 Orthogonality
- Class 7 Midterm Exam
- Class 8 Determinants
- Class 9 Eigenvalues and Eigenvectors: Part 1
- Class 10 Eigenvalues and Eigenvectors: Part 2
- Class 11 Linear Transformations
- Class 12 Numerical Methods and Applications
- Class 13 Additional Topics and Applications
- Class 14 Additional Topics and Applications
- Class 15 Additional Topics and Applications

Revision History

30 December 2009

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