

<b>MA 370</b>	<b>Numerical Linear Algebra</b>
Course Description:	Computing matrix factorizations, minimizing least squares problems, solving large linear systems of equations, computing eigenvalues efficiently through iterative methods. <i>3 credits; 3 contact hours. Prerequisite: MA 326: Linear Algebra.</i>
Instructor:	Mili Shah (mili@cooper.edu) 41 Cooper Square, Room 311
Lectures:	Monday 1:00pm - 1:50pm, 41 Cooper Square, Room LL101 Wednesday 10:00am - 11:50am, 41 Cooper Square, Room 105
Office Hours:	Wednesday 12:01pm-1:30pm or by appointment
Participation:	Please contribute to the classroom environment by asking questions and participating in discussions. Your interaction will be considered when assigning borderline grades, as will improving performance throughout the course of the semester.
Exams:	Two exams (25% each) and one final exam (30%) will be given during the semester. Each exam will be one hour and the final will be two hours. You may not use outside resources: calculators, other students, other books, etc.
Homework:	There will be a homework set roughly every other week. You are encouraged to discuss these assignments, but the <b>final write-up must be entirely your own work</b> . If you collaborate, you <b>must</b> note that at the top of the assignment along with details of the collaboration. Note that collaboration does <b>not</b> mean turning in an identical solution. Sharing code or answers to exercises is <b>not</b> allowed. Any copying of an assignment, whether electronically or by hand is considered plagiarism. As soon as material is exchanged, the line between collaboration and plagiarism has been crossed. As a rule of thumb, you should spend half an hour working each problem independently before collaborating with a classmate. Homework will typically be due Mondays at 1pm.
Grading:	Homework: Due Mondays at 1pm (20% of final grade) Exam 1: Wednesday, October 16 (25% of final grade) Exam 2: Wednesday, November 13 (25% of final grade) Final Exam: Wednesday, December 18 (30% of final grade) <i>Note: I reserve the right to adapt exam dates.</i>
Late policy:	No work will be accepted late without prior arrangement or a written excuse. Neither exam or final may be made up without prior arrangement or a written excuse.
Text:	Trefethen and Bau, <i>Numerical Linear Algebra</i> , ISBN-13: 978-0898713619
Cell Phones:	Cell phones are not permitted in class unless in off or silent mode.
Disabilities:	If you believe you are entitled to an accommodation on assessments through the Americans with Disabilities Act, you must self-identify to the Office of the Dean of Students and meet with me during the first week of the term to discuss arrangements for meeting your accommodation.