

**Syllabus Math 702**  
**Spring 2006**  
**Numerical Linear Algebra**

**Topics:** Briefly, we will study factorizations, stability and conditioning, eigenvalues and iterative methods.

**Text:** The primary resource for the course is the text *Numerical Linear Algebra* by Lloyd N. Trefethen and David Bau, III.

**Prerequisite:** This course is independent of Math 701 Numerical Analysis I. In other words, Math 701 need not be taken first. However, a course in Linear Algebra or equivalent experience is strongly advised.

**Grading:** The course grade will be based upon (1) homework (2) in class examinations (3) presentations.