

Math 3371 -- Fall 2012

Computational Linear Algebra and Numerical Approximation I

Instructor: Dr. Liping Liu, RB2001, Ext.8427, lipingli@lakeheadu.ca

Office hours: Tuesday 2:30pm -- 4:00pm or by appointment

Lectures: Tuesday & Thursday 1:00pm -- 2:30pm, RC1001

Web: http://flash.lakeheadu.ca/~lipingli/math_3371_2012.html

Textbook: *Scientific Computing -- An Introductory Survey*, 2nd Edition
by Michael T. Heath

Course Content: An introduction to numerical methods for matrix factorization and the solution of linear equations, real symmetric algebraic eigenproblems, least squares problems and interpolation, including norms and error analysis. These are covered in Chapter 1- 4, 7 and Chapter 12.

Assignments: Bi-weekly assignments will be posted on the course website and are due in two weeks. To be fair to everyone, late assignments will not be accepted unless there is a valid documented reason.

Exams: An eighty- minute Mid-term is scheduled during the lecture hour on Thursday, October 18, 2012. No make-up test is provided for students who miss writing the Mid-term at the scheduled time. If there is a legitimate (documented) excuse, the final mark will be calculated on the basis of the final exam. Otherwise, a grade of 0% for the missed exam will be averaged with other grades. **A three-hour final examination will be scheduled at the end of the term.**

Grading Scheme:

Assignments.....	15%
Mid-term	25%
Final Exam	60%

***If you are having difficulty, or have questions,
Please ask me for help!***