Math 3050WA/WB -- Numerical Analysis and Computing
Math 3351WA -- Applied Numerical Methods
Winter 2014

Instructor: **Dr. Liping Liu,** RB 2001, Phone: 343-8427, lipingliATlakeheadu.ca

Course Web: https://lakeheadu.desire2learn.com/

Office hours: 11:30am -- 12:30pm, Tuesday, or by appointment

Lectures: **Math 3050WA:**   10:00am – 11:30am, Mon. &Wed. at AT1003
          Math 3050WB/3351WA: 10:00am – 11:30am, Tue. & Thur. at UC2011

Labs: **Lab-W1:** 11:30am --12:30am, Friday, AT3001
          Lab-W2: 10:30am --11:30am, Friday, AT3001
          Lab-W3: 2:30pm -- 3:30pm, Wednesday, AT3001
          Lab-W4: 12:30pm --1:30pm, Tuesday, AT3001

Textbook: **Applied Numerical Methods for Engineers and Scientists**
          by Singiresu S. Rao, 2002.

Course Content: An introduction to various numerical techniques for finding roots of nonlinear equations in one variable, approximating functions, solving systems of linear equations, approximating integrals and solving ordinary and partial differential equations. These are covered in Chapters 1 – 3, 5 and 7 -- 11.

Assignments: Eight assignments will be posted on the course web. You will be able to print each assignment and normally you have one week to finish it. Solutions will be posted on the course web. In all due fairness to everyone, answers for overdue assignments will not be accepted.

Exams: A seventy-minute mid-term will be scheduled during February 2014. 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 this term.

Grading Scheme: Assignments…………… ....……… 15%
          Mid-term ……....…..………………………… 25%
          Final Exam ....……….…... 60%

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