**Math 3050WA/WB** -- **Numerical Analysis and Computing -- Winter 2016**

**Math 3351WA -- Applied Numerical Methods -- Winter 2016**

**Instructor:**Dr. Liping Liu, RB 2001, Phone: 343-8427, lipingli@lakeheadu.ca

**Course Web:**[https://lakeheadu.desire2learn.com/](https://mycourselink.lakeheadu.ca/?ou=22647)

**Office hours:**            2:30pm-3:30pm, Monday, RB 2001, or by appointment

**Lectures:**                  Math3050WA: 11:30am-1:00pm, M & W, UC1017

 Math 3050WB:  2:30pm-4:00pm, T & Th, AT1007

 Math 3351WA: 2:30pm-4:00pm, T & Th, AT1007

**Labs:**                        Math 3351L-W1: 11:30am-12:30pm, Friday, AT3001
 Math 3050L-W1: 12:30pm-1:30pm, Thursday, AT3001

                                     Math 3050L-W2: 11:30am-12:30pm, Friday, AT3001

                                     Math 3050L-W3: 8:30am-9:30am, Monday, AT3001

                               Math 3050L-W4: 10:30am-11:30am, Monday, AT3001

**Textbook:**Applied Numerical Methods with Matlab for Engineers and Scientists

 3rd Edition, by Steven C. Chapra

**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 differential equations.

**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 2016**. 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!***