

**Math 3050WA/WB -- Numerical Analysis and Computing -- Winter 2018**  
**Math 3351WA -- Applied Numerical Methods -- Winter 2018**

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

**Course Web:** <https://mycourselink.lakeheadu.ca/d2l/home>

**Office hours:** 10:00am-11:00am, Wednesday, RB 2001, or by appointment

**Lectures:** Math3050WA: 8:30am-10:00am, M & W, AT 1003  
Math 3050WB: 2:30pm-4:00pm, T & Th, RB3046  
Math 3351WA: 2:30pm-4:00pm, T & Th, RB3046

**Labs:** Math 3351L-W1: 11:30am-12:30pm, Friday, AT3001  
Math 3050L-W1: 11:30pm-12:30pm, Tuesday, AT3001  
Math 3050L-W2: 11:30am-12:30pm, Friday, AT3001  
Math 3050L-W3: 10:30am-11:30pm, Monday, AT3001  
Math 3050L-W4: 10:30am-11:30am, Monday, AT3002

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

**Exams:** There will be two Tests during the term. No make-up test will be provided for students who miss writing any test 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 test will be averaged with other grades. **A three-hour final examination will be scheduled at the end of the term.**

**Grading Scheme:**

Assignments .....	15%
Test 1 .....	20%
Test 2 .....	20%
Final Exam .....	45%

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