Math 3050WA/WB -- Numerical Analysis and Computing -- 2024
Math 3351WA/WB -- Applied Numerical Methods -- 2024

Instructor: Dr. Liping Liu, [lipingli@lakeheadu.ca,](mailto:lipingli@lakeheadu.ca) RB 2001

Course Web: https://mycourselink.lakeheadu.ca/

Office hour: 2:30pm-3:30pm, Tuesday or by appointment, RB 2001

Lectures: Math 3050WA: 11:30am-1:00pm, Tu & Th. AT 2001
Math 3050WB: 1: 00am-2:30pm, Tu & Th. AT 1006
Math 3351WA: 11:30am-1:00pm, Tu & Th. AT 2001
Math 3351WB: 1: 00am-2:30pm, Tu & Th. AT 1006

Labs: Math 3050L-W2: 4:30pm-5:30pm, Friday, AT 3002
Math 3050L-W3: 3:30pm-4:30pm, Thursday, AT 3002
Math 3351L-W2: 4:30pm-5:30pm, Friday, AT 3002
Math 3351L-W3: 3:30pm-4:30pm, Thursday, AT 3002

Textbook: Applied Numerical Methods with Matlab for Engineers and Scientists
5th 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 and Quizzes: Assignments and Quizzes will be delivered online via the course website, no delayed submissions will be counted.

Tests: A mid-term test will be scheduled in March 2. No make-up test will be provided for students who miss taking the test at the scheduled time. If there is a legitimate excuse, the final mark will be calculated based on the final exam. Otherwise, a grade of 0% for the missed mid-term test will be averaged with other grades. A final examination will be scheduled at the end of the term.

Grading Scheme: Participations ……..…..……….…….… 10%
Assignments ……..…..……………….… 10%
Quizzes .…………………………….…. 10%
Mid-term Test ……..……………….…... 20%
Final Exam ……………… ……………… 50%

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