

MATH-3050 NUMERICAL ANALYSIS & COMPUTING
MATH-3351 APPLIED NUMERICAL METHODS
WINTER 2022

Instructor: Prof. Xin Yang LU

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Classes:

- MATH-3050-WDE/MATH-3351-WDE on MW 4.00-5.30pm delivered via Zoom,
- MATH-3050-WA/MATH-3351-WA on MW 7.30-9.00pm in AT1001,
- Lab MATH-3050L-WD1 on Th 1.30-2.30pm delivered via Zoom,
- Lab MATH-3050L-WD2 on F 12.30-1.30pm delivered via Zoom,
- Lab MATH-3050L-WD3 on F 1.30-2.30pm delivered via Zoom,
- Lab MATH-3050L-WD4 on W 8.30-9.30am delivered via Zoom.

Office Hours: scheduled by appointment via email, delivered either in person or via Zoom.

DESCRIPTION

- **Textbook:** *Applied Numerical Methods with Matlab for Engineers and Scientists* by Steven C. Chapra. Recommended, but not required.
- **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:** 3 assignments during the semester, each of which worth 15%. You will have approximately one week to do each assignment.
- **Final Exam:** There will be a 3 hours final exam, worth 55%.
- **Policies:**
 - Important announcements will be made through MyCourseLink to registered students via MyCourseLink. You are responsible for reading the info posted on MyCourseLink.
 - I attempt to reply to e-mail in a timely fashion, but do not expect immediate responses.
- **Academic Dishonesty:** All cases of academic dishonesty will be dealt with according to the university's Code of Student Behavior and Disciplinary Procedures, copies of which are available from the university's web-site.
- **Accommodations:** Lakehead University is committed to achieving full accessibility for persons with disabilities. Part of this commitment includes arranging academic accommodations for students with disabilities to ensure they have an equitable opportunity to participate in all of their academic activities. If you think you may need accommodations, you are strongly encouraged to contact Student Accessibility Services (SAS) and register as early as possible. For more information, please visit: <http://studentaccessibility.lakeheadu.ca>