

Mathematics 1078 WA2016: Elementary Calculus

Instructor: Mrs. Kewei Yuan Email: kyuan@lakeheadu.ca

Lectures: Monday, Wednesday and Friday, 12:30 pm–1:30 pm, RB1021

Lab: Thursday 02:30PM–04:30PM, RB3049

Webpage: mycourse link: <https://lakeheadu.desire2learn.com/>

Office Hour: Monday 1:30 pm - 2:30 pm, RB2006

Textbook: **Essentials Of Technical Mathematics with Calculus (Second Edition, Part B)** by Paul, Richard, ISBN: 9780132890915

Course Content: In this one term course, we will cover the core material, with extra attention on the basics. Students in such a course will learn the limits of functions and their properties; continuity of functions; differentiation of the functions and applications of differential calculus including optimization, related rates, and curve sketching; anti-derivatives, the fundamental integration, and area problems. The course will cover the below content from chapters 22 to chapter 27 of the textbook.

Chapter 22 Limits: section 22.1–22.3

Chapter 23 Differentiation, section 23.1–23.8

Chapter 24 Curve Sketching, section 24.1–24.6

Chapter 25 Applications of the Derivative, section 25.1–25.2

Chapter 26 Derivatives of Transcendental Functions, section 26.1–26.4

Chapter 27 Integration, section 27.1–27.6, and 27.9–27.11

Lab: Laboratory time will be used to help student to develop problem solving skills and to introduce the assigned problems and work short practice problems. Laboratory time will also be used to answer the questions related to the assignment. Two quizzes are set up during the lab time (Each around 20 minutes). ***Students in this course should also need to register and enroll in the lab.***

Assignments: We are going to have 6 assignments. They will be normally posted online on every other Monday and will be normally due in 10 days. Each assignment should have a cover page with information including: course number, assignment number, student name and student ID. The assignment should be dropped off to the assignment box near the office of the Math Department which is on the second floor of the Ryan Building before 24:00 midnight of the due day. *Late assignments will not be accepted.* The solutions to the assignments will be given online after the due day.

Quizzes and Exams: Quizzes, Midterm test, and final exam will be closed book. ***No calculators are allowed during these times.*** The regulation of examinations and related matters is described on University Calendar.

Two quizzes will be given in the lab time after Chapter 22 and Chapter 26 correspondingly. Midterm test is set up on Wed. March 1 during the class time.

Course Grade: Assignments 20%; Quizzes 10%; Midterm 20%; Final Exam 50%

In addition: 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>