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Carleton University, School of Mathematics and Statistics  
Math 1052A • Calculus and Introductory Analysis I  
Course Outline • Fall Term 2022

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**TIME OF LECTURES:** Tues Thurs 10:05 – 11:25 am **ROOM:** Tory 360

**INSTRUCTOR:** Brandon Fodden [brandon.fodden@carleton.ca](mailto:brandon.fodden@carleton.ca)  
Office: Herzberg 4356  
Office hours: to be announced

**TUTORIAL:** Tues 2:35 – 3:55 in various locations

**PREREQUISITES:** (i) Ontario Grade 12 Mathematics: Advanced Functions, and Grade 12 Mathematics: Calculus and Vectors with grades of at least 75% in each; or MATH 0005 and MATH 0006 with grades of at least B in each; or equivalents; and (ii) MATH 1800 (may be taken concurrently); or permission of the School

**TEXT:** *Elementary Analysis* (second edition) by Kenneth A. Ross.  
A free PDF is available through the Carleton Library.

**GRADING SCHEME:**

Assignments (best 7 of 9)	35%
Midterm	25%
Final exam	40%

**Topics:** Properties of the real numbers. Limits. Sequences and series. Elementary functions. Continuity. Derivatives. Extreme values. Mean Value Theorem. L'Hospital's rules. Antiderivatives. An emphasis is placed on proofs and theory.

**Pregnancy or religious obligation:** Write me with any requests for academic accommodation during the first two weeks of class, or as soon as possible after the need for accommodation is known to exist. For more details, see the Student Guide.

**Students with disabilities requiring academic accommodations** in this course must register with the Paul Menton Centre for Students with Disabilities (PMC) for a formal evaluation of disability-related needs. Documented disabilities include but are not limited to mobility/physical impairments, specific Learning Disabilities (LD), psychiatric/psychological disabilities, sensory disabilities, Attention Deficit Hyperactivity Disorder (ADHD), and chronic medical conditions. Registered PMC students are required to contact the PMC every term to have a Letter of Accommodation sent to the Instructor by their Coordinator. In addition, students are expected to confirm their need for accommodation with the Instructor no later than two weeks before the first assignment is due or the first in-class test/midterm. If you require accommodations only for formally scheduled exam(s) in this course, you must request accommodations by the official accommodation deadline published on the PMC website.

## COMMENTS:

- Be sure to check your Carleton email address frequently. This is the main way that I can communicate with the entire class quickly. For example, if I am to miss a class due to illness, I would send an email out.
- A Discord server for this course will soon be set up. This will be a place to ask questions to me and other students, and to easily share class notes for any classes you miss. More information on the server will be given soon through an email.
- During the tutorial sessions, your TA will be present to work out selected problems and to answer questions. The first tutorial is on Tuesday September 20.
- Assignments will generally be posted on Thursdays, and are due the following Thursday. Assignments are to be submitted online as a single PDF file. They may be typed or handwritten (there are numerous free scanning apps for phones that will allow you to make a PDF for a handwritten assignment). Assignments must be legible in order to be graded.
- The fall midterm is an 80 minute in-person test held in the **Tuesday October 18** Tutorial.
- The final exam is a three hour in-person test held during the December exam break, to be scheduled by the University. The date, time, and location will be announced in at some point during the fall term.
- Students who miss the final exam may be eligible for a deferred exam. Application for a deferral must be made, with appropriate documentation, to the Registrar's Office within three working days after the examination.
- No calculators are permitted on the midterm test and final exam.
- Plagiarism and cheating will not be tolerated and can lead to severe penalties – consult the undergraduate calendar.
- Any classes I miss due to illness may be replaced with an online lecture.
- You are expected to attend all lectures (unless you are ill – see below). If you miss a lecture, it is your responsibility to understand all material from that lecture, and to get any information given.
- Please do not attend class if you are sick, even if you are sure that it's "just a cold." If you miss classes due to illness, you can ask your classmates for the class notes on the course Discord server.
- Student or professor materials created for this course (including any posted notes, tutorials, assignments, quizzes, and tests) remain the intellectual property of the author(s). They are intended for personal use and may not be reproduced or redistributed without prior written consent of the author(s).

## EXTRA HELP:

There is help available for this course. It is up to you to seek any help you may need. Please do not hesitate to take advantage of the help being offered – that's why it's there! Here is a summary of the help available:

- Class tutorial (see first page)
- My office hours, or email

- Kyle Harvey's Problem Solving Sessions
- MS-LAP (The Math & Stats Learning Assistance Program is a free of charge program that provides learning support and solutions to homework questions through assistance videos. These services are available on Brightspace. MS-LAP gives students tools to succeed while explaining step-by-step particular problem strategies and associated theory.)
- Math Tutorial Centre in 3422 HP; See [carleton.ca/math/math-tutorial-centre/](https://carleton.ca/math/math-tutorial-centre/) for the schedule.
- Your classmates

## A NOTE FROM CARLETON ABOUT COVID:

It is important to remember that COVID is still present in Ottawa. The situation can change at any time and the risks of new variants and outbreaks are very real. There are [a number of actions you can take](#) to lower your risk and the risk you pose to those around you including being vaccinated, wearing a mask, staying home when you're sick, washing your hands and maintaining proper respiratory and cough etiquette.

Feeling sick? Remaining vigilant and not attending work or school when sick or with symptoms is critically important. If you feel ill or exhibit COVID-19 symptoms do not come to class or campus. If you feel ill or exhibit symptoms while on campus or in class, please leave campus immediately. In all situations, you must follow Carleton's [symptom reporting protocols](#).

Masks: Carleton has paused the [COVID-19 Mask Policy](#), but continues to strongly recommend masking when indoors, particularly if physical distancing cannot be maintained. It may become necessary to quickly reinstate the mask requirement if pandemic circumstances were to change.

Vaccines: Further, while proof of vaccination is no longer required as of May 1 to attend campus or in-person activity, it may become necessary for the University to bring back proof of vaccination requirements on short notice if the situation and public health advice changes. Students are strongly encouraged to get a full course of vaccination, including booster doses as soon as they are eligible, and submit their booster dose information in [cuScreen](#) as soon as possible. Please note that Carleton cannot guarantee that it will be able to offer virtual or hybrid learning options for those who are unable to attend the campus.

All members of the Carleton community are required to follow requirements and guidelines regarding health and safety which may change from time to time. For the most recent information about Carleton's COVID-19 response and health and safety requirements please see the [University's COVID-19 website](#) and review the [Frequently Asked Questions \(FAQs\)](#). Should you have additional questions after reviewing, please contact [covidinfo@carleton.ca](mailto:covidinfo@carleton.ca).