

McGILL UNIVERSITY, DEPARTMENT OF MATHEMATICS AND STATISTICS  
COURSE OUTLINE, WINTER 2022

**MATH 141 – Calculus 2 (4 CR)**

INSTRUCTORS

Section	Name	E-mail
001	Alberto Cavallo	<a href="mailto:alberto.cavallo@mcgill.ca">alberto.cavallo@mcgill.ca</a>
002	Sean Bibby	<a href="mailto:sean.bibby@mcgill.ca">sean.bibby@mcgill.ca</a>
003	Jérôme Fortier ( <i>coordinator</i> )	<a href="mailto:jerome.fortier@mcgill.ca">jerome.fortier@mcgill.ca</a>

The list of teaching assistants and the details for office hours will be posted on myCourses.

COURSE OVERVIEW

The definite integral. Techniques of integration. Applications. Introduction to sequences and series.

RESTRICTIONS

- **Prerequisites:** MATH 139 or MATH 140 or MATH 150.
- **Restrictions:** Not open to students who have taken MATH 121 or CEGEP objective 00UP or equivalent. Not open to students who have taken or are taking MATH 122, except by permission of the Department of Mathematics and Statistics.

CALENDAR

- **Classes Period:** From Wednesday, January 5 to Tuesday, April 12.
- **Final Exams:** From Wednesday, April 13 to Friday, April 29 .
- **Tutorials:** From Monday, January 10 to Friday, April 8.
- **Study Break (no classes):** From Monday, February 28 to Friday, March 4

COURSE DELIVERY

Lectures will be delivered online (on Zoom) due to large classes. However, if the epidemiological situation safely permits, tutorials and exams will be in-person. The course will be delivered in a “flipped classroom” approach. That means:

- On Monday, we will post a pre-recorded lecture common to all three sections, where the theory for the whole week will be covered. The instructor who teaches that lecture will vary from week to week. Sections 2 and 3 will not have a live lecture on that day.
- Examples will be worked out by the instructors in their respective sections for the remaining two hours of lecture. Note that lectures of section 1 will be reduced to one hour each in order not to advantage that section.
- There is also a *mandatory* two-hours tutorial, where you will work on some problems with your peers, under supervision of a TA.

## TEXTBOOK

We will cover most sections of Chapters 5, 6, 7, 8 and 11 of the following textbook:

**Stewart, J., Clegg, D. and Watson, S., *Calculus: Early Transcendentals*, 9th Edition. Cengage Learning, 2019.**

That being said, if you possess any other text covering all the material, you may not wish to buy the required text. In particular, any prior edition is more than satisfactory.

## EVALUATION

The evaluation scheme consists of the following components.

- **WeBWork Assignments (15%)** : Web-based assignments graded by the computer. They have a strict deadline, but you can take as much time as you like to work on the problems.
- **Exams: Midterm (25%) and Final (40%)**. In-person, closed-book exams, unless the pandemic forces us to move them online. Their precise dates will be posted on myCourses.
- **Quizzes (20%)** : These are **timed** assignments: they will be available for 48 hours and you have one hour to complete them once you start. There will be approximately one quiz every two weeks (six quizzes in total). To take possible technical issues into account, your quiz with the lowest mark will not be counted towards your final grade.

**Alternate grading scheme:** 70% for the final exam, and all other components divided by two. Note that this option will be available *only if* the final exam is in-person. We will take the scheme that is the most advantageous to you: no need to register.

## NEED HELP?

This term we will be using Piazza for class discussion. The system is highly catered to getting you help fast and efficiently from classmates, TAs, and instructors. Rather than emailing questions to the teaching staff, we encourage you to post your questions on Piazza. To signup, please [click here](#) or use the link on myCourses.

This course is eligible to free tutoring services provided by the departmental helpdesk ([Burnside-911](#)) and by [FRezCA](#). Visit their web pages for more information.

## POLICIES

You are allowed (in fact encouraged) to discuss the WebWork *assignments* with other students, and you may consult any books, websites, etc. However, you must work out your own solution. Direct copying from other students is not permitted.

Quizzes and exams should be completely worked out by yourself: seeking help from someone or searching the web for those is strictly prohibited and may lead to disciplinary procedures (see [www.mcgill.ca/integrity](http://www.mcgill.ca/integrity) for more information).

Absences on exams must be justified with appropriate documentation, and communicated **before** the exam (if possible) in order to arrange suitable accommodations. This is at the discretion of the course coordinator for the midterm exam, and of your faculty for the final exam.

In accord with McGill University's Charter of Students' Rights, students in this course have the right to submit in English or in French any written work that is to be graded.

In the event of extraordinary circumstances beyond the University's control, the content and/or evaluation scheme in this course is subject to change.