

# MATH 111 - Calculus II

## Section 001

Winter 2020

### General information

**Instructor:** Martin Frankland

**Email:** Martin.Frankland@uregina.ca

**Office:** CW 307.17

**Office hours:** Mondays 3-4, Tuesdays 4-5, Fridays 2-3, or by appointment.

**Lectures:** MWF 12:30 - 1:20 in Classroom Building 130.

**Tutorials:** Mondays 10:30 - 11:20 also in Classroom Building 130.

**Textbook:** *Calculus*, 8th Edition, by James Stewart.

You are welcome to use an older edition, but note that any practice questions will reference the 8th Edition.

**Lab manual:** A free lab booklet is available on UR Courses. It contains additional practice questions and answers, some of which will be worked through in your tutorials. Note that it is an older edition; some of the material (Module 5 and parts of Module 3) is no longer covered in this class.

**Prerequisite:** MATH 110, or MATH 103 with a grade of at least 80%.

**UR Courses:** <https://urcourses.uregina.ca/>

This site will contain announcements, supplementary material, practice problems, and sample exams. The site is updated throughout the semester, so please check back regularly.

### Course outline

MATH 111 covers the following topics.

- Calculus of exponential, logarithmic, and inverse trigonometric functions.
- Indeterminate forms, L'Hôpital's rule.
- Methods of integration: integration by parts, trig integrals, trig substitution, partial fractions.

- Improper integrals.
- Infinite series: sequences and series, convergence tests, power series, Taylor series.

## Tutoring services

- Math and Stats Tutoring:  
<https://www.uregina.ca/science/mathstat/undergrad/resources/help-centre.html>
- Student Success Centre:  
<http://www.uregina.ca/student/ssc/tutoring/math-stats-tutoring/>
- Global Learning Centre:  
<https://www.uregina.ca/international/global-learning-centre/glc-services-programs.html#tutoring>
- Champion College Math/Stats Help Centre:  
<https://championcollege.ca/student-services/math-stats-tutoring/>

## Grading scheme

- Quizzes: 20% (best 4 of 5)
- Midterms (2): 30%
- Final exam: 50%

To pass the course, in addition to the usual passing grade, a score of 30% on the course work (quizzes and midterms) and 30% on the final exam is required.

## Exams

- Midterm 1: **Monday February 10.**
- Midterm 2: **Monday March 23.**
- Final exam: **Wednesday April 15, 2:00 - 5:00 PM**, room to be announced.

There are two 50 minute midterms, each worth 15% of your grade. Both midterms are written in the Monday tutorial period.

The final exam covers the entire semester. Please **bring your student ID** to the exam, as you will be asked to present it.

**Calculators:** While you are allowed to use a calculator in class and for practice at home, **no calculators or other devices** (cell phones, iPads, etc.) are allowed on any exams.

## Quizzes

- Quiz 1: Monday January 20
- Quiz 2: Monday February 3
- Quiz 3: Monday March 2
- Quiz 4: Monday March 16
- Quiz 5: Monday April 6

There will be five quizzes, each approximately 25 minutes in duration. The best four quizzes will be counted for a total of 20% of your grade. All quizzes are written in the Monday tutorial period.

## Assignments

You will be given assignment questions to do at home on a regular basis. While completion of these assignments is essential for your success in this course, you do not hand them in for grading.

## Missed course work

**Quizzes:** Missing a quiz (for any reason) will count as the lowest of the five quizzes being dropped.

**Midterm:** If you miss a midterm for any reason (illness, etc.), its weight will be transferred to the final exam. Only one midterm can be transferred in this way.

**Bonus deal:** For those who write both midterms and do better on their final exam than their lower midterm, the final exam grade will replace the lower midterm.

Information about missed course work can be found in the *Academic Regulations*, section “Deferral of Final Exams or Course Work”, available at:

<https://www.uregina.ca/student/registrar/resources-for-students/academic-calendars-and-schedule/undergraduate-calendar/sections.html>

**Final:** You will need to submit the form *Deferral of term work and/or final exam*, available at:

[https://www.uregina.ca/student/registrar/assets/docs/pdf/forms/deferral\\_form.pdf](https://www.uregina.ca/student/registrar/assets/docs/pdf/forms/deferral_form.pdf)

For more information, please consult the *Academic Regulations*, section “Deferral of Final Exam”, or contact Science Student Services, Lab Building 238.

## Academic integrity

Plagiarism (and any other kind of cheating) will not be tolerated. If a student is suspected of plagiarism, their test will be sent to the Associate Dean Academic for the Faculty of Science who will then contact the student and deal with the situation. Consequences can range from receiving a lower grade to expulsion from the University.

For more information, please consult the *Student Code of Conduct and Right to Appeal*, section “Academic Misconduct”, available at:

<https://www.uregina.ca/student/registrar/resources-for-students/academic-calendars-and-schedule/undergraduate-calendar/sections.html>

as well as the *Faculty of Science Student Handbook*, section “Academic Integrity”, available at:

<https://www.uregina.ca/science/assets/docs/pdf/programpdf/new-student-manual.pdf>

## Accessibility

Any student with special needs who may need accommodations should discuss these with the course instructor after contacting the Centre for Student Accessibility at:

<https://www.uregina.ca/student/accessibility/>

## Lecture room etiquette

In a large lecture room, please help create an atmosphere where you and your peers can focus. Cell phones and tablets are not to be used during class time for recreational purposes (games, social media, etc.).