



MATH 370: Ordinary Differential Equations (Fall 2026)

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Office Hours:	_____
Important:	Students should get the above information from their instructor and from the course Moodle site. The instructor is the person to contact should there be any questions about the course.
Class Schedule:	Sec. A: Tuesdays & Thursdays. 13:15-14:30. Sec. C: Mondays & Wednesdays, 13:15-14:30.
Prerequisites:	<u>MAST 219</u> ; <u>MATH 251</u> or <u>MAST 234</u> ; or equivalent.

Reading Week

Begins on Saturday, October 10 and ends on Friday, October 16, 2026. No classes that week.

Course Topics and Goals

Over the semester students will be taught to recognize, interpret, and solve various differential equations. We will derive methods to explicitly solve several types of differential equations, as well as explore ways to obtain qualitative information when an explicit solution is out of reach. In particular, we will cover solution methods for specific first order equations (including separable, exact, and linear equations), linear second order equations, and linear higher order equations with constant coefficients. We will also study systems of equations. Applications of the differential equations we study will be emphasized throughout the course.

Textbook

Elementary Differential Equations and Boundary Value Problems, 12th Edition, by William E. Boyce and Richard C. DiPrima (Wiley).

The print version of the textbook will be available at:

<https://www.bkstr.com/concordiastore/home>

Note: Students should order textbooks as early as possible, especially for print versions in case books are back ordered or there are any shipping delays.

We will cover most of the chapters 1 through 4 of the textbook, as well as parts of chapters 7 and 9 as time permits.

Assessments

Your grade will be assigned according to whichever of the two following percent systems results in a higher grade:

60% Final Exam
30% Midterm
10% Assignments

or

90% Final Exam
10% Assignments

If the grading scheme for this course includes graded assignments, a reasonable and representative subset of each assignment may be graded. Students will not be told in advance which subset of the assigned problems will be marked and should therefore attempt all assigned problems.

Assignments

There will be weekly assignments. **Assignments are very important;** they indicate the level of difficulty of the problems that the students are expected to understand and solve. Therefore, every effort should be made to do and understand them *independently*. **Your submission must be your own writing in your own words.**

The assignments will be submitted on Moodle as a single pdf file. A sample of the questions will be graded out of each assignment (some problems will not be graded). Solution will be posted after the due date. **Late assignments will not be accepted for any reason.** Instead, the lowest 2 assignment scores of each student will be dropped.

Exams

This course will have a midterm test and final examination. The final exam will cover all material covered in the course.

NOTE: It is the Department's policy that tests missed for any reason, including illness, cannot be made up. If you missed the midterm because of illness (to be confirmed by a valid medical note) the final exam can count for 90% of your final grade, and 10% will be contributed by the assignments.

PLEASE NOTE: Students are responsible for finding out the date and time of the final exam once the schedule is posted by the Examination Office. Any conflicts or problems with the scheduling of the final exam must be reported directly to the Examination Office, **not** to your instructor. It is the Department's policy and the Examination Office's policy **that students are to be available until the end of the final exam period. Conflicts due to travel plans will not be accommodated.**

Web Resources

The textbook publisher, Wiley, operates an excellent web resource that accompanies the textbook, which includes many animated illustrations of the textbook concepts.

Calculators

Electronic communication devices (including cell phones) are not allowed in examination rooms. Only calculators approved by the Department (with a sticker attached as proof of approval) are permitted for the class test and final examination. For a list of Approved calculators see <https://www.concordia.ca/artsci/math-stats/services.html#calculators>

Student Services

You may wish to access the many services available to you as a Concordia student. An overview of these resources can be found here: <https://www.concordia.ca/students/services.html>

Academic Integrity and the Academic Code of Conduct

This course is governed by Concordia University's policies on Academic Integrity and the Academic Code of Conduct as set forth in the Undergraduate Calendar and the Graduate Calendar. Students are expected to familiarize themselves with these policies and conduct themselves accordingly. "Concordia University has several resources available to students to better understand and uphold academic integrity. Concordia's website on academic integrity can be found at the following address, which also includes links to each Faculty and the School of Graduate Studies: <https://www.concordia.ca/conduct/academic-integrity.html>" [Undergraduate Calendar, Sec 17.10.2]

Behaviour

All individuals participating in courses are expected to be professional and constructive throughout the course, including in their communications.

Concordia students are subject to the [Code of Rights and Responsibilities](#) which applies both when students are physically and virtually engaged in any University activity, including classes, seminars, meetings, etc. Students engaged in University activities must respect this Code when engaging with any members of the Concordia community, including faculty, staff, and students, whether such interactions are verbal or in writing, face to face or online/virtual. Failing to comply with the Code may result in charges and sanctions, as outlined in the Code.

Intellectual Property

Content belonging to instructors shared in online courses, including, but not limited to, online lectures, course notes, and video recordings of classes remain the intellectual property of the faculty member. It may not be distributed, published or broadcast, in whole or in part, without the express permission of the faculty member. Students are also forbidden to use their own means of recording any elements of an online class or lecture without express permission of the instructor. Any unauthorized sharing of course content may constitute a breach of the [Academic Code of Conduct](#) and/or the [Code of Rights and Responsibilities](#). As specified in the [Policy on Intellectual Property](#), the University does not claim any ownership of or interest in any student IP. All university members retain copyright over their work.

Use of Concordia email

Your [Concordia email](#) is the official channel for all university communications, as required by the university's [Policy on Concordia email accounts for students and employees](#). Please use your Concordia email for all communication related to this course and check it regularly so you don't miss important information. [Learn more about how to access your Concordia email](#).

As a student, you are expected to follow the email policy and to use your Concordia email in a respectful and responsible manner. The policy helps ensure that communication across the university is secure, reliable, and consistent.

Extraordinary circumstances

In the event of extraordinary circumstances and pursuant to the [Academic Regulations](#) the University may modify the delivery, content, structure, forum, location and/or evaluation scheme. In the event of such extraordinary circumstances, students will be informed of the change.

Accommodations for Students with Disabilities

If you need accommodations for classes, assignments, or exams, please contact me and the Access Center for Students with Disabilities. Website: <https://www.concordia.ca/students/accessibility.html>

Counselling and Psychological Services

Counselling and Psychological Services offers short-term counselling to register Concordia students who are in Quebec. Appointments can be either virtual and in-person. Website: <https://www.concordia.ca/health/mental-health.html>