Department of Mathematics & Statistics
Concordia University

MAST 330
Differential Equations
Fall 2021

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Lectures: Tuesdays & Thursdays, 1:15-2:30 PM. - will be held using ZOOM.
The first class will be on Sept 9. There will be NO lectures on the following dates in September: 7, 16, 21, 28.

Office Hours: Thursday 2:30-3:30 PM - will be held using ZOOM.

Text: *Elementary Differential Equations and Boundary Value Problems*, 11th Edition, by W. E. Boyce and R. C. DiPrima.
The digital and print versions of the textbook will be available at:
https://www.bkstr.com/concordiastore/home

You can use an older edition as well. The homework problems will be posted on Moodle.

Web Resources: Many excellent animated illustrations to the text are collected at the site www.wiley.com/college/boyce. Regular use of this resource is recommended.

Assignments: **Assignments will be posted on Moodle weekly. The solutions should be submitted electronically on Moodle by the due date.** 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*. The assignments will be corrected and a representative sample graded (some problems may be not graded), with solution sets posted weekly. **Late assignments will not be accepted.**

Calculators: Only "Faculty Approved Calculators" (**SHARP EL-531** or **CASIO FX-300MS**) should be used during mid-term and final. A list of approved calculators can be found at https://www.concordia.ca/artsci/math-stats/services.html#calculators.

Midterm Test: There will be a midterm test scheduled in the 7th or 8th week. The test will be held for 75 minutes during lecture time via Moodle. It will be online. There is no make-up midterm test.

Final Exam: **The final examination will be 2 hours long and online via Moodle. To obtain a good grade, the student** MUST **show that she/he has a THOROUGH understanding of the subject and is good at problem solving.**

Grading: 10% weekly assignments, 20% one class test, 70% a final exam. If it benefits the student, the weight of the final exam will be increased to 100%. A missed test or assignment cannot be made up.

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.

NOTE: Students are responsible for finding out the date and time of the final exams once the schedule is posted by the Examinations Office. Conflicts or problems with the scheduling of the final exam must be reported directly to **the Examinations Office**, **not to your instructor**. It is the Department's policy and the Examinations 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.**

The following table gives an indication of the scope and *approximate* pace of the course, in terms of sections of the textbook.

Topics	Sections	No. of weeks on each topics
Introduction	1.1,1.2,1.3	2
First-order differential equations	2.1 – 2.7	4
Second-order differential equations	3.1 – 3.9	4
Systems of First Order Linear Eq.	7.1 – 7.5	3

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: concordia.ca/students/academic-integrity." *[Undergraduate Calendar, Sec 17.10.2]*

Use of Zoom

Note: Zoom is included as an institutionally-approved technology. This means we have been assured of the privacy protections needed to use freely within the classroom)

Zoom will be used in this course to facilitate learning at a distance. It may be used to record some or all of the lectures and/or other activities in this course. If you wish to ensure that your image is not recorded, speak to your instructor as soon as possible.

Also, please note that you may not share recordings of your classes and that the instructor will only share class recordings for the purpose of course delivery and development. Any other sharing may be in violation of the law and applicable University policies, and may be subject to penalties.

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.

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.