

Math*2270 – Applied Differential Equations

Winter 2016

Instructional Support

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Meeting Times

Lectures:

Mon, Wed, Fri, 8:30 – 9:20 pm, MACS 209

Labs:

Monday at 9:30 – 10:20 am, MINS 103 (Section 1)

Monday at 2:30 – 3:20 pm, MCKN 223 (Section 2)

Office Hours:

Mondays and Wednesdays, 11:45 am – 1:15 pm, RICH 2523

Learning Resources

Course Website:

Course materials, news, announcements, new assignments, and grades are posted regularly on the Courselink website. It is your responsibility for keeping up-to-date with it. Check it every day. Completed lecture notes will **not** be uploaded to Courselink, so it is strongly recommended that you come to every lecture!

Required Text:

Math*2270 - Applied Differential Equations – Course Manual (Available only at the MacNaughton bookstore)

This will be our primary resource for the course. The Course Manual comes with fill-in-the-blank lecture notes that we will complete together in lecture, so bring it to every class! In addition, “For You to Try” problems are included at the end of every section, allowing you to practice your newfound skills.

Recommended Text:

Elementary Differential Equations and Boundary Value Problems – 10th Edition, by William E. Boyce and Richard C. DiPrima. If you find an older version for cheaper, that will work just fine. This text will only be used for extra practice problems and background reading.

Communication and Email Policy:

Please feel free to ask any questions during or just after lectures, or send me an email. I will be checking my email every day and I try to respond to all of my messages immediately. You are expected to take advantage of my office hours if you have any questions about course notes, practice problems, or tests!

Assessment

There will be a number of lab assignments held throughout the semester.

Weekly lab tutorials will give you an opportunity to practice extra examples or review concepts that you will need for upcoming topics. In some weeks, you will be given an assignment. You may work in pairs, groups of three, or individually to complete the assignment, submitting your work to the TA before the end of the lab. Each lab will be worth 2% but the final grade is counted out of 15, so it is possible to get up to one bonus mark!

Lab Assignments will be given on:

January 18

January 25

February 8

February 22

March 7

March 14

March 28

April 4

There will also be two short tests throughout the semester. Tests will be held during class time and will be 50 minutes in duration. The times are:

Wednesday, February 10, 8:30 – 9:20 am

Wednesday, March 13, 8:30 – 9:20 am

A Warmup test will be given near the beginning of the course to test your fundamental arithmetic, calculus and algebra skills; this warmup test is designed to encourage you to practice these fundamental concepts so you are ready for the course. The Warmup test will take place in class:

Wednesday, January 20, 8:30 – 9:20 am

Distribution (Scheme 1):

Labs: 15%

Warmup Test: 10%

Tests: 20% each

Final Exam: 35%

Distribution (Scheme 2):

Labs: 15%

Warmup Test: 0%

Tests: 20% each

Final Exam: 45%

Your final grade will be calculated using both schemes. The better result of the two schemes will be given as your final grade.

Course Grading Policies

Academic Consideration:

When you find yourself unable to meet an in-course requirement because of illness or compassionate reasons, please advise the course instructor in writing, with your name, id#, and e-mail contact. See the academic calendar for information on regulations and procedures for Academic Consideration.

Accommodation of Religious Obligations:

If you are unable to meet an in-course requirement due to religious obligations, please email the course instructor at the start of the semester to make alternate arrangements. See the undergraduate calendar for information on regulations and procedures for Academic Accommodation of Religious Obligations.

Missed assignments:

The weight of any missed assignments will be automatically transferred to the final exam. Late assignments will not be accepted.

Missed midterm tests:

Missed tests will receive a grade of 0% unless academic consideration can be granted. If accommodation is granted, the weight of the missed test will be

added to the final exam. There will be no makeup tests.

Passing grade:

In order to pass the course, you must receive a final grade of at least **50%**.

Calendar Description

This course covers the solution of differential equations that arise from problems in engineering and science. Topics include linear equations of first and higher order, systems of linear equations, Laplace transforms, series solutions of second-order equations, and an introduction to partial differential equations.

Important Dates

January 11: First day of classes

February 15-19: Family Day and winter break (no classes are scheduled)

March 11: Fortieth class day; this is the last day you may drop courses

March 25: Good Friday (no classes are scheduled)

April 8: Last day of classes

Academic Misconduct

The University of Guelph is committed to upholding the highest standards of academic integrity and it is the responsibility of all members of the University community faculty, staff, and students to be aware of what constitutes academic misconduct and to do as much as possible to prevent academic offences from occurring. University of Guelph students have the responsibility of abiding by the University's policy on academic misconduct regardless of their location of study; faculty, staff and students have the responsibility of supporting an environment that discourages misconduct. Students need to remain aware that instructors have access to and the right to use electronic and other means of detection.

Please note: Whether or not a student intended to commit academic misconduct is not relevant for a finding of guilt. Hurried or careless submission of assignments does not excuse students from responsibility for verifying the academic integrity of their work before submitting it. Students who are in any doubt as to whether an action on their part could be construed as an academic offence should consult with a faculty member.

The Academic Misconduct Policy is detailed in the Undergraduate Calendar.

A tutorial on Academic Misconduct produced by the Learning Commons can be found at <http://www.academicintegrity.uoguelph.ca/> .

Accessibility

The University of Guelph is committed to creating a barrier-free environment. Student Accessibility Services (formerly the Centre for Students with Disabilities) feels that providing services for students with disabilities is a shared responsibility among students, faculty and administrators.

This relationship is based on respect of individual rights, the dignity of the individual and the University community's shared commitment to an open and supportive learning environment.

For more information, contact SAS at Extension 56208, visit their office in the University Centre Level 3, or send an email to csd@uoguelph.ca.