

University of Regina
Department of Mathematics and Statistics

MATH 281-001 Introduction to Differential Equations
Course Outline, Winter 2006

Instructor: Edward Doolittle
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Lecture Time: MWF 1:30-2:20
Location: CW 117

Textbook: Zill, Dennis G., and Cullen, Michael R. Differential Equations with Boundary Value Problems, sixth edition. Thomson Brooks/Cole, 2005.

Office Hours: MWF 11:30-1:20 or by appointment
Office: CW 307.19
Telephone: 337-3107

Calendar Description: First order differential equations. Higher order differential equations. Systems of first order differential equations. Partial fractions and Laplace transforms. Series solution of differential equations.

Prerequisites: MATH 214, or MATH 122 and MATH 213 with grades of at least 60%.
Note: Students cannot receive credit for this course if they have received credit for MATH 212.

Detailed Description: A detailed description of the course material including a list of chapters from the textbook and schedule will be distributed in a separate syllabus.

Evaluation:

Quizzes based on Problem Sets (Jan 25, Feb 1, Mar 1, Mar 29):	20%
Midterm, Wednesday, February 15:	15%
Midterm, Wednesday, March 15:	15%
Final Exam	50%

Assignment Policy: Problem sets will be assigned on a regular basis but will not be included in the course grade. Solutions for the problem sets will be provided one week after the problem sets. Quizzes will be based on the problem sets.

Test and Exam Policy: There will be no make-up tests for missed midterms. If you have a legitimate, documented excuse (such as a medical emergency), then the portion of the grade for the missed midterm will be added to the weight of the final exam.

Undocumented or insufficiently legitimate excuses for absence from an exam will result in a grade of 0 for that exam. There are no make-up final exams except as (rarely) allowed by your faculty's deferred examination rules.

Special Needs: If you are a student in this course who, because of a disability, may have a need for accommodations, please discuss the issue with the instructor, as well as contacting the Coordinator of Special Needs Services at (306) 585-4631.

Honesty and Integrity: Please refer to section 5.14 of the University of Regina Undergraduate Calendar. In particular, quizzes, tests, and examinations are designed for students to show the instructor how well they have mastered the course material. Work presented on quizzes, tests, and examinations therefore must be the student's own. Academic misconduct is dishonest behaviour or attempted dishonest behaviour which contravenes the general principle of academic honesty and which may include using books, notes, diagrams, electronic devices, or any other aids during a quiz, test, or examination without the explicit permission of the instructor; copying from the work of other students; communicating with others during the evaluation; commissioning or allowing another person to write a test on one's behalf; communicating advance knowledge of an exam to others; and altering answers on a quiz, test, or examination that has been returned. Penalties for academic misconduct will include a grade of 0 on the evaluation in question and referral to the dean's office for further investigation.

Calculator Policy: A calculator is not required for any question on any quiz, test, or examination in this course. However, use of a non-programmable calculator from the following list will be permitted on evaluations: Sharp EL510 (recommended), Casio fx-260, or Texas Instruments TI 30X. Use of any other calculator or electronic aid on a quiz, test, or examination without the prior permission of the instructor will be considered grounds for academic misconduct.

All three types are basically equivalent. All three come in both solar or battery powered versions as indicated by additional letters at the end of the name. For example, the U of R bookstore sells the Sharp EL 510RB (the battery powered model) for \$12.50. The TI 30X comes in both an A and a IIB model. The permitted calculators offer basic arithmetic functions, trigonometric, exponential, logarithmic, and hyperbolic functions, operations with fractions, and basic statistics, have single line display, and single number memory capability. The SHARP EL510 model is approved for use on College Entrance Examinations in the US. The TI 30X is approved for use by the Society of Actuaries for use on actuarial examinations.