

University of Regina
Department of Mathematics and Statistics

MATH 111-002 Calculus II
Course Outline, Fall 2006-30

Instructor: Edward Doolittle, Edward.Doolittle@uregina.ca
Web site: <http://www.math.uregina.ca/~doolittl/math111/>
Office: CW 307.19; phone 337-3107
Office Hours: MWF 11:30-12:20 and MWF 1:30-2:20, or by appointment

Lab Instructor: Sarah Plosker
Office:

Lecture Time: MWF 2:30-3:20 in CL 126
Lab Time: R 2:30-3:20 (begins September 14, 2005) in CL 126

Textbook: Stewart, James. Calculus, 5th edition. Brooks/Cole, 2003.

Calendar Description: Differentiation and integration of exponential and logarithmic functions. Methods of integration and applications. Indeterminate forms, L'Hospital's rule and improper integrals. First order differential equations: separable equations, linear equations, exact equations, modeling and applications.

Prerequisites: MATH 105 or 110 with a grade of at least 60%. Students are expected to have the proper prerequisites for the course. Students without the proper prerequisites may be removed from the class at any point during the semester.

Course Content: MATH 111 is a continuation of MATH 110. MATH 111 is required for students in mathematics, statistics, actuarial science, engineering, computer science, and physics. We will be covering textbook sections 6.2, 6.3, 7.1, 7.2, 7.3, 7.4, 7.5, (not hyperbolic functions), 7.7, 8.1, 8.2, 8.3, 8.4, 8.5, (not computer algebra systems), 8.8, 9.1, 9.2, 9.3, 10.1, (not direction fields and Euler's method), 10.3, 10.4, 10.5, and 10.6. That is 22 sections altogether; we will try to cover about two sections per week, leaving time for occasional review. I will supply a detailed syllabus by the end of the second week of classes.

Evaluation:

Quizzes (weekly on Thursdays, last 20 minutes of lab):	20%
Midterm (Thursday, October 5):	20%
Midterm (Thursday, November 2):	20%
Final Exam, (Thursday, December 7, 2-5pm):	40%

The quizzes will consist of problems taken nearly verbatim from the weekly problem sets.

Attendance Policy: Regular and punctual attendance provides a foundation for academic success, and is expected of all students. When the persistent lateness or absence of a student jeopardizes the learning or the evaluation of the work of other students in the course, the

student may be subject to penalty, including being dropped from the course or being barred from writing the final examination. One written warning will be provided to the student before such action is taken.

Assignment Policy: Problem sets will be assigned weekly on Wednesdays and will be the basis of quizzes to occur in the last 20 minutes of the lab on the Thursday eight days after the problem set is assigned. You will find that test and exam questions are similar to and require mastery of the techniques and ideas from the problem sets, making it imperative that you take the problem sets seriously.

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: Any student with a disability who may need accommodations should discuss these with the course instructor after contacting the Coordinator of the Disability Resource Office, RC 251.15, at 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, slide rule, or table of logarithms may be helpful for some quizzes, tests, and examinations in this course. 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 of calculators 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.