



UNIVERSITY OF
CALGARY

Faculty of Science
DEPARTMENT OF MATHEMATICS AND STATISTICS

Course Information Sheet

Course: MATH 251 Winter 2008
Lecture/Time/Session L01 M W F 11:00-11:50 ST 141
Instructor/e-mail: Elena Braverman maelena@math.ucalgary.ca
Office/Phone/Hours: MS 444, 220-3956 M 14-15, W 10-10:50, 14-15:30

Labs

B01 M 12:00 MS 371/MS 317 Elena Braverman maelena@math.ucalgary.ca
B02 M 12:00 MS 325/MS 317 Matthew Musson mmusson@math.ucalgary.ca
B03 T 13:00 MS 371/MS 317 Bouchra Sabbagh bushra@math.ucalgary.ca
B04 T 13:00 MS 325/MS 317 Matthew Musson mmusson@math.ucalgary.ca

Course's homepage: math.ucalgary.ca/~maelena/251.html

1. **Prerequisites:** A grade of 70% or higher in Mathematics 30 or Pure Mathematics 30 and a grade of 50% or higher in Mathematics 31.

NOTE: Credit for more than one of MATH 249, 251 and AMAT 217 will not be allowed.

The Faculty of Science policy on pre- and co-requisite checking is outlined in the current University Calendar (see www.ucalgary.ca/pubs/calendar) Faculty of Science, section 5C. It is the students' responsibility to ensure that they have the pre- and co-requisites for the course, and if they do not they will be withdrawn from the course without notice.

2. **Fee policy:** After the last day to drop/add courses (January 25, 2008), there will be no refund of tuition fees if a student withdraws from a course, courses or the session.
3. **Academic Accommodations:** It is the student's responsibility to request academic accommodations. A student with a documented disability who may require academic accommodation must register with the Disability Resource Centre to be eligible for formal academic accommodation. DRC registered students are required to discuss their needs with the instructor no later than fourteen (14) days after the start of this course.
4. **The university policy on grading** and related matters is described in the current University Calendar, *Academic Standings*. In determining the overall grade in the course, the following weights will be used:

| | | |
|------------------|---------------|------|
| Webwork Homework | [10] | 20 % |
| Quizzes | [best 4 of 5] | 20 % |
| Mid-term test | [one] | 20 % |
| Final exam | | 40 % |

A passing grade on the final exam is necessary to pass the course. There will be a two-hour final examination scheduled by the Registrar's Office. The use of basic scientific calculators is allowed for the tests.

5. **The midterm test** will be in class on Monday, **March 17**, 2008. There will be five quizzes, each 50 minutes or less during your lab time in MS 317; if you have no quiz, the tutorial will be in your regular scheduled room.
6. **Textbook:** Robert A. Adams: Single-Variable Calculus (or Complete Course) - 6th or any edition, or an electronic book.
7. **Missed Components of Term Work:** The regulations of the Faculty of Science pertaining to this matter are outlined in the current University Calendar, faculty of Science, section 6A. It is the student's responsibility to familiarize herself/himself with these regulations.

8. **Homework:** Homework problems will be assigned weekly. These are to be completed using the computer homework system WEBWORK which can be accessed at <http://webwork.ucalgary.ca>.
There will be no out-of-class activities scheduled for this course.
9. **Academic Accommodations:** It is student's responsibility to request academic accommodations. A student with a documented disability who may require academic accommodation must register with the Disability Resource Centre to be eligible for formal academic accommodation. DRC registered students are required to discuss their needs with the instructor no later than fourteen (14) days after the start of the course.
10. **Academic misconduct** (cheating, plagiarism, or any other form) is a very serious offence that will be dealt with rigorously in all cases. A single offence may lead to disciplinary probation or suspension or expulsion. The Faculty of Science follows a zero tolerance policy regarding dishonesty. Please see: <http://www.ucalgary.ca/honesty>
11. In addition to the instruction provided by the lecturer and tutorial instructor there is a **continuous tutorial** available where students may obtain individual help with questions about the course material and exercise problems. The tutorial will be held in MS 365, MTWR 11:00-15:00, F 11:00-14:00.
12. Students who already know the material of MATH 251 and wish to proceed immediately to take MATH 253 may take a **Challenge Examination**. The test is essentially a final exam in MATH 251 and a grade of A- or more is required to proceed immediately to MATH 253. Only those students who have never been enrolled in MATH 249 or MATH 251 are eligible to write the test. The exact date and application materials can be obtained from the Department Office MS 476 (220-5203) by January 23, 2008.
13. The Society for Calgary Undergraduate Mathematics (SCUM) sells exam packages, runs final reviews (SCUM's office is in MS337A, e-mail scum@math.ucalgary.ca, phone 220-3938, webpage www.math.ucalgary.ca/~scum)
14. **Calculus Connections** is a companion course to this one offered by Y. Elsabrouty. There are no prerequisites and no cost to the student. The Monday/Wednesday sessions will review the relevant high school material, while the Tuesday/Thursday sessions will integrate the background material with the calculus topics and explain the main concepts, give examples and strategies.

MATHEMATICS 251

“CALCULUS I” Syllabus

| Week | Sections | Webwork | Tests |
|--------------|-----------------|-------------------|-------------------|
| Jan 14-18 | P.1-P.3 | Review A due | |
| Jan 21-25 | P.4-P.7, 3.2 | Review B due | |
| Jan 28-Feb 1 | 3.2, 1.2-1.3 | Assignment 1 due | Quiz 1A (B01,B03) |
| Feb 4-8 | 1.4 | Assignment 2 due | Quiz 1B (B02,B04) |
| Feb 11-15 | 2.1-2.4 | Assignment 3 due | Quiz 2A (B01,B03) |
| Feb 18-22 | Reading week | | |
| Feb 25-29 | 2.5,2.7,2.8 | Assignment 4 due | Quiz 2B (B02,B04) |
| Mar 3-7 | 2.9,3.2-3.3,4.1 | Assignment 5 due | Quiz 3A (B01,B03) |
| Mar 10-14 | 2.6,4.7,4.2 | Assignment 6 due | Quiz 3B (B02,B04) |
| Mar 17-21 | 4.2 | | Midterm |
| Mar 24-28 | 4.3-4.4 | Assignment 7 due | Quiz 4A (B01,B03) |
| Mar 31-Apr 4 | 4.6,2.10,5.3 | Assignment 8 due | Quiz 4B (B02,B04) |
| Apr 7-11 | 5.3-5.6 | Assignment 9 due | Quiz 5A (B01,B03) |
| Apr 14-18 | 5.6,5.7 | Assignment 10 due | Quiz 5B (B02,B04) |