



Faculty of Science
DEPARTMENT OF MATHEMATICS AND STATISTICS
Course Information Sheet

1. **Course:** Math 251 **Fall 2004**
Lecture/Time/Session: L01 9:00 M W F (50 min) **Room: ST141**
Instructor: Kristine Bauer
Office: MS 440 **Phone: 220-7675**
e-mail/webpage: kristine@math.ucalgary.ca <http://www.math.ucalgary.ca/~kristine>

2. **Prerequisites:** A grade of 70% or higher in Mathematics 30 or equivalent, and a grade of 50% or higher in Mathematics 31 or equivalent.
NOTE: 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responsibility to ensure that they have the pre- and co-requisites for the course, and if they do not they will be withdrawn from the course without notice.**
3. **Fee policy:** After the last day to drop/add courses, there will be no refund of tuition fees if a student withdraws from a course, courses or the session.
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:

Mid-term Test		20 %
Quizzes	[Best 4 of 5]	25 %
Take-home Quizzes	[2]	5 %
Final Exam		50 %

A passing grade on the final exam is necessary to pass the course.

5. **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.
6. **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 read the sections of the current University Calendar under the heading *Student Misconduct* and the information on integrity at www.ucalgary.ca/honesty.
7. **Dates and times of class exercises held outside of class hours (evening tests, Saturday laboratory examinations, weekend field trips, etc.):** REGULARLY SCHEDULED CLASSES HAVE PRECEDENCE OVER ANY OUT-OF-CLASS-TIME ACTIVITY.

A make-up exam will be scheduled for the midterm examination during the week of November 1 in the evening. Students with legitimate reasons for missing the regular exam must provide documentation to the instructor as soon as possible in order to be granted admittance to the make-up exam.

8. **Text:** Calculus Single Variable, 5th edition. **Author:** Robert A. Adams.

9. **QUIZ:** There will be five quizzes, each of duration 30 minutes, administered during the regularly scheduled labs of this lecture section. No make-up quizzes will be given. The best 4 of 5 quiz scores will be used for 25% of the final grade in the course.
10. **MIDTERM:** This is a 50-minute written examination held in the lecture period on **Friday, October 29th**. The midterm is worth 20% of the final grade on the course.
11. **TAKE-HOME QUIZ:** There will be two take-home quizzes, worth 5% of the final grade. The assignments and their due dates are posted on the course web page.
12. **FINAL EXAMINATION:** This will be a 2-hour test worth 50% of the final grade, scheduled by the Registrar. A passing grade on the final exam is necessary to pass the course.
13. **HOMEWORK:** Although homework will not be collected in this course, you should expect to do roughly 10-20 problems after each lecture in order to keep up with the course. A list of recommended problems can be found on the course web page.
14. Calculators **ARE NOT** permitted at quizzes, mid-term test, or the final exam.
15. In addition to the instruction provided by their 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. Faculty members and graduate students will be available in the continuous tutorial room to answer questions in a one-to-one fashion. The lecturer will announce the location and hours of operation of the continuous tutorial.
- There is also a free and optional course of review material called Calculus Connections, taught by Professor Elsabrouty. Please consult the department web page (<http://www.math.ucalgary.ca> - visit the Undergraduate Course info link) for class meetings and times. You are encouraged to attend these lectures to review any material that you do not feel you have mastered.
16. 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 A⁻ is required to proceed immediately to MATH 253. Only those students who have never before enrolled in MATH 251 and who wish to take MATH 253 are eligible to write the test. Applicants should have done exceptionally well in high school mathematics. The test is held early in the term. The exact date can be obtained from your instructor or Dr. D.R. Westbrook in MS 528 (220-7672).
17. **SCUM:** The **Society for Calgary Undergraduate Mathematics** is located in MS 337A. They sell exam packages, run final exam reviews, and can often assist with problems. The office is open from 10am to 3pm Monday – Friday, and you are welcome to drop by. Membership has its privileges!

LECTURE SCHEDULE:

	M	W	F	MATERIAL	EXAMINATION
September		8	10	P1, P2	
	13	15	17	P3, P4, P5, P6	
	20	22	24	1.1, 1.2, 1.3	Quiz 1: Review material
	27	29		1.4, 1.5	Assignment 1: Limit Proofs Quiz 2: Limits & Continuity

	M	W	F	MATERIAL	EXAMINATION
October			1	2.1	Quiz 2: Limits & Continuity
	4	6	8	2.2, 2.3, 2.4	
	11	13	15	2.5, 2.6	Quiz 3: The Derivative October 11 (Thanksgiving day)
	18	20	22	2.7 & 4.7, 2.8, 2.9, 2.11	
	25	27	29	4.1, 3.1	October 29 Midterm (In Class)
November	1	3	5	3.2, 3.3, 3.4, 4.2	
	8	10	12	4.3, 4.4	November 12 (No Lectures)
	15	17	19	4.5, 4.9, 2.10	Quiz 4: Applications of the derivative
	22	24	26	5.1, 5.2, 5.3	Assignment 2: Riemann Sums
	29			5.4	
December		1	3	5.5, 5.6	Quiz 5: The Integral
	6	8		5.7, Review.	