



Faculty of Science
DEPARTMENT OF MATHEMATICS AND STATISTICS
Course Information Sheet

1. **Course:** AMAT 217 - Calculus for Engineers and Scientists - Fall 2003

<u>Lecture</u>	<u>Day/Time</u>	<u>Location</u>	<u>Instructor</u>	<u>Office</u>	<u>Phone</u>	<u>Email</u>
L01/05	MWF 9:00	ENE 241	P. Zvengrowski	MS430	220-7456	zvengrow@math.ucalgary.ca
L02/06	MWF 10:00	ENE 243	M. Lamoureux	MS534	220-8214	mikel@math.ucalgary.ca
L03/07	MWF 15:00	ENE 243	G. Margrave	ES212	220-4606	margrave@ucalgary.ca
L04/08/09	MWF 13:00	ENA 103	M. Lamoureux	MS534	220-8214	mikel@math.ucalgary.ca

2. **Prerequisites:** Alberta Math 30 & 31

NOTE: The Faculty of Science policy on pre- and co-requisite checking is outlined on page 198 of the 2003-2004 Calendar. **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responsibility to ensure that they have the pre- and co-requisites for the course, and if they do not they will be withdrawn from the course without notice.**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 on pages 41-42 of the 2003-2004 Calendar. In determining the overall grade in the course, the following weights will be used:

Midterm Exam (1.5 hours)	30%
Quizzes (10 weekly tests)	20%
Final Exam	50%

There will be a final examination scheduled by the Registrar's Office. Quizzes are open book, while the midterm and final examinations are closed book. Calculators are **not** permitted during quizzes and exams. Students must obtain a passing grade on the final examination in order to obtain an overall final grade of "D" or better. There is no predetermined grade distribution for this course.

5. **Missed Components of Term Work.** The regulations of the Faculty of Science pertaining to this matter are outlined on page 199, of the 2003-2004 Calendar. 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 2003-2004 University Calendar under the heading "Student Misconduct", pages 50-55.
7. There will be **one** out-of-class common midterm examination, which has been scheduled by the Faculty of Engineering for the evening of **Wednesday, November 5**. REGULARLY SCHEDULED CLASSES HAVE PRECEDENCE OVER ANY OUT-OF-CLASS-TIME-ACTIVITY. If you have a conflict with this scheduled exam, please inform your instructor at least one week in advance of the exam so that other arrangements may be made for you.

8. Text: *Calculus: A Complete Course*, by R.A. Adams, Addison-Wesley, 5th Edition.

9. Calculators: The use of calculators in tutorial quizzes, midterm exam or final examination is **not** permitted.

10. Homework and quizzes: Homework problems will be assigned weekly, with solutions available in the Student Solutions Manual. These problems are for practice only, and are not to be handed in for grading. The weekly tutorial quizzes, on the other hand, will be conducted under TEST CONDITIONS in the last half of each tutorial period, and ARE turned in for grading. Quizzes are open book, but no calculators are permitted. Solutions will be posted on the course webpage www.math.ucalgary.ca/~mikel as well as in the display case just outside the Engineering Drop In Centre.

Mathematics is learned by DOING, not by observing. It is our experience that students who do not practice with the homework assignments will not be prepared for the quizzes and exams, and usually will fail the course. Help is available from all instructors either in the first part of the tutorials, or by appointment.

11. Calendar

Week	Date	Section in Text	Quizzes and tests
1	Sep 08 - 12	1.1, 1.2, 1.3, 1.4	No quiz
2	Sep 15 - 19	2.1, 2.2, 2.3	
3	Sep 22 - 26	2.4, 2.5, 2.6	
4	Sep 29 - Oct 3	2.7, 2.8, 2.9, 2.10	
5	Oct 6 - 10	3.1, 3.2, 3.3, 3.4	
6	Oct 13 - 17	3.5, 3.6	No class, Thanksgiving Mon, Oct 13
7	Oct 20 - 24	4.1, 4.2, 4.3	
8	Oct 27 - 31	4.4, 4.5, 4.6	
9	Nov 3 - 7	4.7, 4.9, 5.1	No quiz / Midterm Wed, Nov 5
10	Nov 10 - 14	5.2, 5.3	No quiz / Reading days Nov 10, 11
11	Nov 17 - 21	5.4, 5.5, 5.6	
12	Nov 24 - 28	5.7, 6.6, 6.7	
13	Dec 1 - 5	7.1, 7.2, 7.3	
14	Dec 8	8.1, 8.2	No quiz / Last day of classes

NOTES:

- The section numbers refer to the text by Adams. Some departures from this schedule may occur.
- There are no quizzes in weeks 1, 9, 10, 14.
- The midterm exam will be on material up to and including Chapter 4, Section 4.6.
- You should prepare for each lecture by reading the text and for each tutorial by attempting to do as many exercises as possible. Mathematics is learned by DOING, not by observing, so be sure to try many exercises. Answers to odd-numbered questions are in the back of the book, so try these first. By the end of each week, you should have mastered the sections of the text indicated on the course calendar, and the corresponding assignment. The lectures will not necessarily cover all topics in complete detail; they should guide you in the study of your text. Similarly, your tutorial instructor should help you diagnose your difficulties and teach you how to overcome them. Use problems at the chapter end for review purposes.
- Many students find the second half of this course much more difficult than the first. Be prepared to put in extra work towards the end of the semester in order to succeed.

SCUM

The Society for Calgary Undergraduate Mathematics is located in MS337A. They sell exam packages, run final reviews, and can often assist with problems. The office is open from 10am to 3pm Monday-Friday, and you are welcome to drop by. We look forward to meeting you!