



Faculty of Science
DEPARTMENT OF MATHEMATICS AND STATISTICS
Course Information Sheet

1. Course **AMAT 217 – Calculus For Engineers and Scientists.**

Fall 2009

Lecture Days	Time	Location	Instructor	Office	Phone	Email	
01	MWF	11:00	EN A 103	W. Liao	MS 530	403-220-3946	wliao@math.ucalgary.ca
02	MWF	13:00	EN A 103	Y. Elsabrouty	MS 418	403- 220-2255	yousry@math.ucalgary.ca
03	MW	09:00	EN E 239	M. Aiffa	MS 574	403-220-6313	aiffa@math.ucalgary.ca
	F	11:00	EN E 239				
04	MWF	08:00	EN A 101	M. Aiffa	MS 574	403-220-6313	aiffa@math.ucalgary.ca
05	MWF	10:00	EN A 103	M. Greenberg	MS 434	403-220-3952	mgreenbe@math.ucalgary.ca
06	TR	12:30	EN A 103	P. Zvengrowski	MS 430	403-220-7456	zvengrow@ucalgary.ca

2. Prerequisites: 70% or higher in Pure Mathematics 30 and a credit in Mathematics 31; or admission to the Faculty of Engineering including credit in Pure Mathematics 30, and Mathematics 31.
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 3.5C*. 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responsibility to ensure that they have the pre- and co-requisites for the course, and if they do not they will be withdrawn from the course without notice.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. 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.
5. 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 (90 minutes)	[1]	25%
Quizzes (written)	[3]	09%
Assignments (MathXL)	[6]	12%
Maple Computer Assignment	[1]	04%
Final Examination (2 Hours)		50%

A passing grade on the final examination of the course is essential to passing the course as a whole. There will be a final examination scheduled by the Registrar's Office during the period from Friday December 11 to Monday December 21 / 2009. The use of aids such as open book, etc. is not permitted.

6. 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 3.6A*. It is the student's responsibility to familiarize herself or himself with these regulations.

7. 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, suspension, or expulsion. The Faculty of Science follows a zero tolerance policy regarding dishonesty. Please read the sections of the current University Calendar. See: <http://www.ucalgary.ca/honesty/>
8. Dates and times of class exercises held outside of class hours (evening tests, Saturday laboratory examinations, weekend field trips, etc.):

There will be out-of-class-time activities;
(Midterm Test will be held on Thursday October 29 / 2009 from 06:30 to 8:00 pm).

REGULARLY SCHEDULED CLASSES HAVE PRECEDENCE OVER ANY OUT-OF-CLASS-TIME-ACTIVITY. If you have a conflict with this out of class time activity, please inform your instructor at least one week in advance of the activity so that other arrangements may be made for you.

9. **Text: Calculus: A Complete Course, by Robert A. Adams, & Christopher Essex, Pearson Education Canada, Seventh Edition with MathXL Access Code or Stand alone MathXL Access Card.**
10. Calculators: the use of calculators in Quizzes, Midterm test, or Final Examination is not permitted.

11. Grading System:

The Final Grade is based on the grades achieved in Lab Quizzes, MathXL Assignments, Maple Computer Assignment, Midterm Test and a Comprehensive Final Examination as follows:

09% on the Lab Quizzes,
 12% on MathXL Assignments,
 04% on Maple Computer Assignment,
 25% on the 90 minute Midterm Test, and,
 50% on the final examination scheduled by the Registrar's Office.

Students must obtain at least a grade of "D" on the Final Examination in order to obtain an overall final grade of D or better. There is no predetermined grade distribution (curve) for this course. All work will be graded according to the University of Calgary Undergraduate Grading System (Please refer to page 41 of 2009 – 2010 Calendar)

Grade point scores for Quizzes, MathXL Assignments, Midterm test, Maple Assignment and the Final Examination will be awarded as follows:

For each of the above components, every question will be assigned a positive weight indicating the value of the question. All weights in a particular assignment or a test add up to "one" (1). (The same as 100 %.) Each question will be given a letter grade. The grade point value of the letter grade multiplied by the weight will be computed, and the sum of these products will be a grade point score for the assignment; its value will be between 0 and 4 and corresponds approximately to a letter grade. It must not be interpreted as a percent grade.

Example: Three questions, weighted 0.6, 0.2, 0.2. Letter grades are A-, B+, and F respectively.

The numerical grade for this assignment is $(3.7 \times 0.6) + (3.3 \times 0.2) + (0.0 \times 0.2) = 2.88$.

The "Overall" Final Course grade is computed in a similar way.

Example: The student is averaging 2.1 on Lab Quizzes, 3.2 on MathXL Assignments, received 3.8 on the Maple Assignment and 2.7 on the Midterm Test.

The student's credit towards the final grade is : $(0.09) \times (2.1) + (0.12) \times (3.2) + (.04) \times (3.8) + (.25) \times (2.7) = 1.40$

Here the weights 0.09 and 0.12, 0.04 and 0.25 come from the percentages given on page 1.

At the end, suppose that the Final Examination has been given 3.12.

The final numerical grade point score is: $1.40 + (.50) (3.12) = 2.96$.

This grade point score is near 3 and the final letter grade assigned to this student will be in the B range. Neither the letter grades nor their numerical equivalents are "out of" anything. In other words, for example, a grade of "C" or a "2" are a qualitative assessment meaning "satisfactory" and not 50%.

12. Homework & Quizzes: Students should do as many of the problems in the book and / or worksheets as possible. Solutions to these problems are NOT to be handed in for grading, and solutions can be found in the Student Solutions Manual. The labs are each 75 minutes in duration. In a week where a written Quiz is scheduled the first 30 minutes is used for discussion of problems and during the last 45 minutes of the lab the student is to work on a quiz which will be handed in for grading at the end of that lab. This will be conducted under TEST CONDITIONS except that each student may use his/her notes and any textbook as an aid. The use of calculators is NOT permitted. Solutions to these quizzes will be available at:

<https://blackboard.ucalgary.ca/webapps/login/>

There is No Lab in weeks 1 and 09 and No lectures October 12 (M), November 11 (W), 12 (R) or 13(F).

Experience shows that students who do little or no homework and regularly skip labs will have difficulty with the course material and usually fail this course. Help is available at the Devon Academic Resource Centre, Room EN C 208. In addition, you may get help from all instructors either in the lab, office hours posted, or by an appointment.

Absences from the various components of the assessment are subject to the regulations outlined on the 2009 – 2010 Calendar.

C A L E N D A R

Week #	Date	Sections Of Text	Assignment / Quiz / Test / Other Notes
1	September 08 – 11	1.1, 1.2, 1.3	No Lab
2	September 14 – 18	1.4, 2.1, 2.2	High School Review will be closed on Sept. 20 (11:59 pm)
3	September 21 – 25	2.3, 2.4, 2.5	MathXL Assignment 1 is Due on Sunday Sept. 27 (11:59 pm)
4	September 28 – Oct. 02	2.6, 2.7, 2.8	Quiz 1 (Covers material of section 1.2, 1.3, 1.4, 2.1, 2.2, 2.3)
5	October 05 – 09	2.9, 2.10, 3.1	MathXL Assignment 2 is Due on Sunday Oct. 11 (11:59 pm)
6	October 12 – 16	3.2, 3.3	Thanksgiving Monday October 12. University Closed.
7	October 19 – 23	3.4, 3.5	Quiz 2 (Covers material of section 2.4, 2.5, 2.6, 2.7, 2.9, 2.10, 3.1)
8	October 26 – 30	3.6, 4.1, 4.2	MathXL Assignment 3 is Due on Monday Oct. 26 (11:59 pm) Midterm test Thursday October 29 (18:30-20:00), No Lab.
9	November 02 – 06	4.3, 4.4, 4.5	
10	November 09 – 13	4.6, 4.8	Reading Days November 11, 12, 13. No Lecture. MathXL Assignment 4 is Due on Sunday Nov. 15 (11:59 pm)
11	November 16 – 20	4.9, 5.1, 5.2, 5.3, 5.4	Quiz 3 (Covers material of section 4.1, 4.2, 4.3, 4.4, 4.5)
12	November 23 – 27	5.5, 5.6	MathXL Assignment 5 is Due on Sunday Nov. 29 (11:59 pm)
13	November 30 – Dec. 04	5.6, 5.7, 7.1	Maple Assignment Due (on Lab day M or T)
14	December 07 – 08	7.3	MathXL Assignment 6 Due on Thursday Dec. 10 (11:59 pm)

NOTES:

- The section numbers refer to the text by R.A. Adams. Some departures from this schedule may take place.
- A lecture falling on the test day may be used for review and the test will be held on Thursday October 29 / 2009 from 6:30 to 8:00 pm. The Midterm Test will be on material up to and including section 3.5. No calculators allowed.
- By the end of each week, you should have mastered the sections of the text indicated on the course calendar and the corresponding assignment. You should prepare for each Lecture by reading the text and for each Lab by attempting to do as many exercises as possible in advance. Your Lectures will not necessarily cover everything in detail; they should guide you in your study of the text. Similarly, your Lab instructor should help you diagnose your difficulties and teach you how to overcome them.
- AMAT 217 Work Sheets, Weekly Lab Problems, Past Midterm Tests and Past Final Examinations are available at:
<https://blackboard.ucalgary.ca/webapps/login/>
- AMAT 217 Course Announcements will be available at:
<https://blackboard.ucalgary.ca/webapps/login/>

The Students are advised to visit the website on a daily basis to check for New Announcements, as well as Updated Course Calendar.