

THE UNIVERSITY OF CALGARY
FACULTY OF SCIENCE
Department of Mathematics and Statistics
COURSE INFORMATION SHEET

1. **Course: AMAT 309 - Vector Calculus for Engineers**

Winter 2008

<u>Class</u>	<u>Days</u>	<u>Time</u>	<u>Location</u>	<u>Instructor</u>	<u>Office</u>	<u>Phone</u>	<u>Email</u>
L01	MWF	08:00	ENE 239	Nguyen Van The	MS 560	220-4431	nguyen@math.ucalgary.ca
T01	F	15:00	ST 143				
L02	MWF	09:00	ES 162	Brenken	MS 372	220-3948	bbrenken@ucalgary.ca
T02	F	15:00	ICT 122				

2. **Prerequisite(s): Amat 219** **Corequisite: None**

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). **It is the student's responsibility to ensure that they have the pre- and/or co-requisites for the course, and if they do not they will be withdrawn from the course without further notice.**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:

Webwork Homework (10)	20%
Mid-term Test (1 1/2 hours)	30%
Final Exam	50%

There will be a final examination scheduled by the Registrar's Office.

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 6A*. It is the student's responsibility to familiarize herself/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 or 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. There will be **one** out of class common mid-term examination scheduled by the Faculty of Engineering. **Regularly scheduled classes have precedence over any out of class time activity.** If you have a conflict with this out of class 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, sixth edition* by R.A. Adams, Addison-Wesley.
10. **Calculators:** The use of calculators in tutorials, test, or final examination is **not** permitted.
11. **Homework & Quizzes:** Homework problems will be assigned (approximately) weekly. These are to be completed using the computer homework system WEBWORK which can be accessed at <http://www.math.ucalgary.ca/webwork>. Each student will have an account and the assignments can be done from any computer with web access. Your answers to the assignment questions will be checked and marked (by the computer) on a right/wrong basis. We will give more details about the system and how to use it during the term.

The weekly tutorials are each of 75 minute duration. If you have problems with any questions you can ask your tutorial instructor for help during this time.
12. Blackboard may be used for information regarding this course.

SCHEDULE

WEEK	DATE	SECTIONS OF TEXT	
1	J 14 - J 18	11.1, 11.2, 11.3, 11.4	
2	J 21 - J 25	11.5, (11.6), 12.1, 12.2, 12.3, 12.4	
3	J 28 - F 01	12.5, 12.7, 12.8	
4	F 04 - F 08	13.1, 13.2, 13.3	
5	F 11 - F 15	13.4, 14.1, 14.2	
6	F 18 - F 22	Reading Week	
7	F 25 - F 29	14.4, 14.5, 14.6	
8	M 03 - M 07	15.1, 15.2	MIDTERM
9	M 10 - M 14	15.3, 15.4	
10	M 17 - M 21	15.5, 15.6	Good Friday M 21
11	M 31 - A 04	15.6, 16.1, 16.2	
12	A 07 - A 11	16.3, 16.4,	
13	A 14 - A 18	16.5, 16.6	

NOTES:

1. The section numbers refer to the text by Adams. Departures from this estimated schedule may take place.
2. The Midterm is scheduled for Thursday, March 6, 6:30pm–8:00pm. No Calculators will be allowed.
3. By the end of each week you should have mastered the sections of the text indicated on the course schedule and the corresponding assignment. You should prepare for each lecture by reading the text and for each tutorial by attempting to do as many exercises as possible in advance. Math is like weight-lifting – the more reps you do, the stronger you get! In addition to the assigned WEBWORK problems there are many problems in the textbook that you should try. The answers to the odd-numbered exercises are given in the back of the book, so we recommend that you try these first. Your lectures will not necessarily cover everything in detail; they are meant to guide you in your study of the text. Similarly, your tutorial instructor should help you diagnose your difficulties and teach you how to overcome them. The tutorials will be used to go through given example problems related to the material.