

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

1. **Course: AMAT 307 - Differential Equations for Engineers**

Spring 2009

<u>Lecture</u>	<u>Days</u>	<u>Time</u>	<u>Location</u>	<u>Instructor</u>	<u>Office</u>
20	MWR	18:30	ST 141	A. Amiraslani	MS 544
		email: aamirasl@ucalgary.ca			
T20	MWR	20:30	MS 325	L. Korobenko	
T21	MWR	20:30	MS 427	S. McCann	
T22	MWR	20:30	MS 371	K. Malenfant	
T23	MWR	20:30	MS 569	C. Sunstrum	

2. **Prerequisite(s): (Math 211 or 221); and Amat 219 or Math 253/263/283 plus 114.**

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responsibility to ensure that they have the pre- and/or co-requisites for the course, and if they do not they will be withdrawn from the course without further notice.**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

WileyPLUS Homework [6]	25%
Mid-term Test [1]	25%
Final Exam	50%

There will be a final examination scheduled by the Registrar's Office. A passing grade on the final examination is necessary to passing the course as a whole.

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 no out-of-class-time activity.

9. There will be one mid-term in-class examination on *Monday June 15th, 2009*.
10. **Text:** Elementary Differential Equations and Boundary Value Problems by William E. Boyce and Richard C. DiPrima.
NOTE: You have the option to buy only WileyPLUS for half the price of the printed text from the Now PrePaid counter at the bookstore.
11. **Calculators:** The use of calculators during the midterm test, or final examination is **not** permitted.
12. **Homework:** Homework problems will be assigned (approximately) weekly. These are to be completed using the computer homework system WileyPLUS which can be accessed at <http://www.wileyplus.com>. Each student must 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.
13. **Tutorials:** The weekly tutorials are each of 55 minutes duration. If you have problems with any homework questions or other questions you can ask your tutorial instructor for help during this time. there will be a quiz of 50 minutes duration.
14. Please check blackboard (<http://blackboard.ucalgary.ca>) regularly for the course announcements and the weekly worksheet. The format of the midterm test and final examination will be basically the same as the format of the weekly worksheet. Your tutorial instructor will go over the weekly worksheet.

S C H E D U L E

WEEK NUMBER	DATE	SECTIONS OF TEXT	Assignment
1	M 14	1.1, 1.2, 1.3	No Tutorial; Assignments 0 & 1
2	M 18 - M 21	2.1, 2.2, 2.3, 2.4. 2.6, 2.7, 2.8	Assignment 2
3	M 25 - M 28	3.1, 3.2, 3.3, 3.4, 3.5, 3.6	Assignment 3
4	J 1 - J 4	3.7, 4.1, 4.2, 5.1, 5.2, 5.3	Assignment 4
5	J 8 - J 11	5.4, 5.5, 5.6, 6.1, 6.2, 6.3, 6.4	Assignment 5
6	J 15 - J 18	7.1, 7.2, 7.4, 7.5, 7.6, 7.7	Midterm; Assignment 6
7	J 22 - J 25	7.8, 7.9, 8.1, 8.2, 8.3	No Assignment

NOTES:

- The section numbers refer to the text by William E. Boyce and Richard C. DiPrima: Elementary Differential Equations and Boundary Value Problems. Some departures from this schedule may take place.
- The Closed Book Midterm is scheduled for Monday June 15th at 18:30. No Calculators will be allowed.
- 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 WileyPLUS problems there are many problems in the textbook that you can 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 should 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.