UNIVERSITY OF CALGARY

Faculty of Science

DEPARTMENT OF MATHEMATICS AND STATISTICS

Course Information Sheet

1. **Course**: **Math 221 –Linear Algebra for Scientists & Engineers** **Fall 2004**
   Lecture/Time/Session: **L08/16** **16:00** **M W F (50 min)** **Room: ENA101**
   Instructor: D. Oliveros-Braniff
   Office: MS 390 **Phone: 220-6775**
   e-mail: deborah@math.ucalgary.ca

2. **Prerequisites:** A grade of 70% or higher in Mathematics 30 or Pure Mathematics 30.
   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responsibility to ensure that they have the pre- and co-requisites for the course, and if they do not they will be withdrawn from the course without notice.**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		30 %
Quizzes	[Best 4 of 5]	20 %
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.*.
7. **Dates and times of class exercises held outside of class hours (evening tests, Saturday laboratory examinations, weekend field trips, etc.):** There will be no out-of-class-time activities.

8. **Text**: Elementary Linear Algebra, 2nd Edition, **Author**: W. Keith Nicholson. PublisherMcGraw-Hill,2001.
9. **Optional Materials:** Math 221 Problem Book; Available from the undergraduate mathematics society (SCUM), MS337A

10. **Quizzes:** 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 20% of the final grade in the course.

11. **MIDTERM:** This is a 50 minute written examination held in the lecture period on **FRIDAY, October** the **22th.** This midterm is worth 30% of the final grade on the course.
12. **FINAL EXAMINATION**: This will be a 3-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. Calculators **ARE NOT** permitted at quizzes, mid-term test, or the final exam.

14. 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 location and hours of operation of the continuous tutorial will be announced by the lecturer.

15. Students who already know the material of MATH 221 and wish to finish before may take a Challenge Examination. The test is essentially a final exam in MATH 221 and a grade of A or A$^-$ is required to pass. Only those students who have never before enrolled in MATH 221 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 will be announced.

LECTURE SCHEDULE:

	M	W	F	MATERIAL	EXAMINATION
September		**8**	**10**	1.1,1.2	
	13	**15**	**17**	1.3,1.4	Quiz 1 (Friday lab)
	20	**22**	**24**	1.5,1.6	Quiz 1 (Monday lab)
	27	**29**		1.6,1.8	
October			**1**	1.8	Quiz 2 (Friday lab)
	4	**6**	**8**	2.1,2.2	Quiz 2(Monday lab)
	11	**13**	**15**	2.3	October 11(Thanksgiving Day.)
	18	**20**	**22**	2.4 Review	October 22 **Midterm (In Class)**
	25	**27**	**29**	2.5,2.6	Quiz 3 (In Friday lab)
November	**1**	**3**	**5**	3.1	Quiz 3 (In Monday lab)
	8	**10**	**12**	3.2	November 11 No Lectures
	15	**17**	**19**	3.2,3.3	Quiz 4 (Friday lab)
	22	**24**	**26**	3.3,3.4	Quiz 4 (Monday lab)
	29			3.4	
December		**1**	**3**	3.5	Quiz 5 (Friday lab)
	6	**8**		Review	Quiz 5 (Monday lab)