



## COURSE INFORMATION SHEET

**SPRING 2006**

- Course:** MATHEMATICS 221 -- Linear Algebra for Scientists and Engineers  
**Lecture/Time:** MW 19:00 165 minutes  
**Instructor:** Wentao Sun  
**Office/Phone/Email:** MS 590 220-7346 wtsun@math.ucalgary.ca
- Prerequisites:** 70% of higher in Pure Mathematics 30 or equivalent. See Diagnostic Test information in Calendar for the acceptable alternatives.  
**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](http://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responsibility to ensure that they have the pre- and co-requisites for the course, and if they do not they will be withdrawn from the course without notice.**
- 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.
- 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:

Assignments	[3]	15%
Quizzes	[3]	15%
Midterm Test	[1]	20%
Final Exam		50%

A passing grade on any particular component of the course is essential to passing the course as a whole. There will be a final examination scheduled by the Registrar's Office. \*\*\* The use of aids such as open book, calculator, etc. is NOT permitted.
- 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.
- 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/>
- 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 ACTIVITY.\*\***

REGULARLY SCHEDULED CLASSES HAVE PRECEDENCE OVER ANY OUT-OF-CLASS-TIME ACTIVITY

1. **TEXT:** *Elementary Linear Algebra, 2Ed*, by W. Keith Nicholson, McGraw-Hill Ryerson, 2001.

2. **INSTRUCTOR:** Wentao Sun.

- Email: wtsun@math.ucalgary.ca
- Tel: 220-7346
- Office: MS 590

3. **GRADING:** The final grade will be based on the following tests:

**Assignments**(3): 15%    **Quizzes** (3): 15%    **Midterm Exams** (1): 20%;    **Final Exam** (1): 50%

4. **ASSIGNMENTS:** There are three assignments will be assigned (one chapter one assignment). Please hand in your assignments on time to the TAs during lab or tutorial. *The assignments are worth 15% of the total grade.*

5. **QUIZZES:** There are three 50-minute quizzes will be given in the last half hour of your lab on the following dates:

**Quiz 1:**    **Week of May 23, 24.**

**Quiz 2:**    **Week of June 13, 14.**

**Quiz 3:**    **Week of June 20, 21.**

The quizzes will be graded and returned in the following lab. No make-up quizzes will be given. *The quizzes are worth 15% of the total grade.*

6. **MIDTERM EXAM:** **Monday, June 5 in the lecture period** (75 minutes). *The midterm is worth 20% of the total grade.*

7. **FINAL EXAM:** **Scheduled by the Registrar** (3-hour test)

*The final examination is worth 50% of the total grade.*

8. **LABS:** You will have been assigned one Lab per week (in MS371 or MS325) to help you with questions about the course. It is important to remember that quizzes are held in the Labs (as scheduled above). They will be written during the last hours of the lab. Labs are also very important for you to learn skills to solve problems. Some of the exercises on the textbook will be explained in the labs. Those exercises will often pop up in the quizzes. *All marks of quizzes and assignments will be posted on the blackboard. Please check your own marks when they are posted.*

9. **SCHEDULED TUTORIAL:** Held in **MS 371 and 325** as follows:

**Mondays 15:00, 110 minutes.**

**Thursdays 19:00, 100 minutes.**

There will be teaching assistants there to answer questions about the course.

10. **LECTURE SCHEDULE:** Here is an approximate outline of the contents of the course.

WEEK	MATERIAL	COMMENTS
May 15	1.1, 1.2	Lectures begin Monday, May 15.
May 17	1.3, 1.4	
May 22		Victoria Day, No lecture
May 23, 24		<b>Quiz 1.</b>
May 24	1.5, 1.6	
May 29	2.1, 2.2	
May 30, 31		last day of assignment 1
June 5	2.3	<b>Midterm</b>
June 6		Midterm break
June 7	2.4, 2.5	
June 12	2.5, 2.6	
June 13, 14		<b>Quiz 2</b> in lab
June 13, 14		last day of assignment 2
June 14	3.1	
June 19	3.2, 3.5	
June 20,21		<b>Quiz 3</b> in lab
June 21	3.4	last day of assignment 3
June 26	Review	Lectures end
June 28-30		Final Examination.

#### 11. Coverage of the exams:

- QUIZ 1: Section 1.1 to Section 1.4;
- QUIZ 2: Section 1.5 to Section 2.4;
- QUIZ 3: Section 2.5 to Section 3.1;
- MIDTERM: Section 1.1 to Section 2.2;
- FINAL: All material covered by the course.

*The use of calculators, formula sheet or cellphone is not allowed during the exams.*