

CRN:	46335
Credits:	5
Day:	M-W
Time:	6:00-8:20
Location:	Cascade SSB 206

Math 261 Linear Algebra Fall 2008
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Instructor: Mark Parrish
E-mail: mark@markparrish.net
Phone: 503-317-3222

Office: TH 235
Office Hours: 5:00-5:45 p.m.(M,W)
or by appointment
Web: <http://markparrish.net>

Course Objectives:

Overview of linear algebra with some applications. Includes linear systems, vectors, and vector spaces, including eigenspaces. This course is designed to familiarize students with the elementary concepts of linear algebra. The emphasis of the course is applications of linear algebra; abstract theory is kept to a minimum. Upon completion of the course, students will be familiar with the vocabulary of linear algebra and will have been exposed to numerous applications.

Intended Outcomes for the course:

Upon completion of this course the learner should be able to do the following things:

- Model real-world problems using vectors, matrices, and systems of linear equations.
- Articulate vector space interpretations of linear systems and their solutions.
- Transfer to a four-year college and continue a course of study in the field of mathematics, science, or engineering.
- Engage in work, study, and conversation on the topics of Linear Algebra with colleagues in the field of mathematics, science, or engineering.
- Appreciate the beautiful unifying power of Linear Algebra over the various branches of mathematics due to the omnipresence of linear structure.

Prerequisites: Prerequisites: MTH 253 and placement into WR 121.

Text: *Linear Algebra: Ideas and Applications 2nd edition*, Richard C Penney

Graphing Calculators: A graphing calculator is required. The TI-85 or the TI-89 is recommended.

Attendance and Expectations: Although attendance is not recorded, you are expected to attend class everyday. Plan to spend at least 2 hours studying outside of class for each hour spent in class. It is also important to develop the habit of reading the appropriate sections in the text before coming to class.

Course Website: There is a website for this course which can be found by following the “courses” link on my personal website <http://markparrish.net>. On this site I post solutions to quizzes and exams, reviews for exams, homework assignments, and links that you may find useful to succeed in this class. This semester I will also be posting your grades on my website. (You will each be given a password to log into your personal grades sometime next week.)

Grading:

Activity	#	Individual Points	Total Value
Quizzes	6	25	150
Exams	2	200	400
Final Exam	1	200	200
Project	2	125	250
Total			1000

Grading Scale:

Grade	Total Points
A	≥ 900
B	$\geq 800 \leq 899$
C	$\geq 700 \leq 799$
D	$\geq 600 \leq 699$
F	<600

Homework: Homework assigned one day will be discussed the following class meeting. Homework is not collected, but it is vital that you do it regularly.

Chapter 1 Homework:

Section	Assignment
1.1	True/False: 5,6,8,10 Exercises: 1-3,9,13,14,21,27,29
1.2	True/False: 1,4 Exercises: 5,6,9,11,12
1.3	True/False: 1-3 Exercises: 1,3aceg,9,15,16,20a,21,22,25,33
1.4	1,2,4,6,7,10,12,15,16

Quiz: There will be a quiz every non-test Monday. These quizzes will cover similar to exact questions from the previous week’s homework. There are no make up quizzes although your lowest two scores will be dropped.

Tests and Exams: There will be three tests; two mid-terms and a final comprehensive examination. All tests and exams will be closed-note and book. Calculators are permitted on each test. Missed tests and exams may not be made up unless the instructor is notified in advance and alternative arrangements are made.

Project: There will be two class projects assigned for the semester. These projects will focus on the application of linear algebra and will probably require either Maple or Matlab software to solve. Explaining two homework problems to the class can be substituted for one class project. Please inform me within the next week if you would like to choose this option.

Disabilities: If you have a disability and need accommodation, please make arrangements through the Office for Students with Disabilities (OSD). The OSD at Cascade is located in SSB 112. Phone: 503-978-5271

Final Note: Should I find a reason to change any information listed here. I will make an announcement in class. Changes may include exam dates. It is your responsibility to be aware of these changes.

Math 261 Tentative Schedule

Sun	Mon	Tue	Wed	Thu	Fri	Sat
Sep 21	22	23	24	25	26	27
	Section 1.1		Section 1.2			
28	29	30	Oct 1	2	3	4
	Section 1.3 Quiz 1		Section 1.4			
5	6	7	8	9	10	11
	Section 2.1 Quiz 2		Section 2.2			
12	13	14	15	16	17	18
	Section 2.3 Quiz 3		Section 3.1			
19	20	21	22	23	24	25
	Review Exam 1 (Ch 1-2)		Section 3.2			
26	27	28	29	30	31	Nov 1
	Section 3.3 Quiz 4		Section 4.1			
2	3	4	5	6	7	8
	Section 4.2 Quiz 5		Section 4.3			
9	10	11	12	13	14	15
	Section 5.1 Quiz 6		Review Exam 2 (Ch 3-4)			
16	17	18	19	20	21	22
	Section 5.2		Section 6.1			
23	24	25	26	27	28	29
	Section 6.2 Quiz 7		Section 6.4			
30	Dec 1	2	3	4	5	6
	Section 6.5 Quiz 8		Review			
7	8	9	10	11	12	13
			Final Exam 6:00-8:20			