Math 4133 - Linear Algebra

Spring 2010

COURSE INFORMATION	Location:	MTH 215
	Class Times:	MWF 12:00-12:50
	Instructor:	Dr. Karl Frinkle
	Office:	MTH 112
	Office Hours:	MWF 10:00-10:50, TR 09:00-11:00, 12:00-12:30, MW 13:00-13:30,
		or by appointment
	Office Phone:	(580)745-2028
	E-mail:	kfrinkle@se.edu
	Website:	http://carmine.se.edu/kfrinkle

TEXT

Linear Algebra with Maple,
by Kenneth Shiskowski and Karl Frinkle

SOFTWARE

A requirement for this course is *Maple* 13 Student Edition. To purchase *Maple* 13 Student Edition at a discounted price please visit the *Maplesoft*'s webstore at https://webstore.maplesoft.com/index.aspx

PROMOTION CODE*: AP57681 *Promotion codes are valid from 2 weeks before the course start date until the course ends. This code should be used for this course only.

COURSE OBJECTIVES

This course will introduce the student to the fundamentals of linear algebra, its applications and some of the computational aspects of the subject. We will cover such topics as linear systems, Gauss-Jordan elimination, determinants, inverses, basic vector spaces, applications to geometry and much much more.

COURSE OUTLINE

In addition to standard lectures, we will attempt to get familiar with *Maple* in the classroom. Some classes will be dealing strictly with *Maple* and how it can be used in regards to linear algebra. Many problems will not be easily solvable by hand, and computer algebra systems such as *Maple* will play an important part in approaching these problems. Programming with *Maple* and projects are will also be an important part of this course.

POLICIES

You will not be able to make up a quiz or receive credit for any other assignment which you missed the deadline for unless you notify me ahead of time. Given prior notification of an absence, I will ensure that you can take the quiz or hand in your homework at a more convenient time.

Cheating will not be tolerated in any shape or form. If you are caught cheating, it will be reported to the appropriate academic offices, and appropriate action will be pursued and you will fail the course.

All cell phones, pagers, CD players, laptops, calculators and other such devices must be turned off and put away before class begins. It is also expected that everyone will behave in a kind and courteous manner towards fellow students and the instructor.

If you are caught using a cell phone or any other electronic device during class, your final grade will be dropped by **one letter grade per incident**.

I reserve the right to change any policies as I see fit to ensure that you are indeed receiving the best possible education that I can give you in the subject matter at hand. If I feel a certain aspect of

the course does not appear to be effective in its method, I will attempt to change it (for the better I hope). All changes will be made in writing.

GRADES   Your final grade will be based upon the following items
- 20% - Homework - required to be handed in on a regular basis
- 20% - Quizzes - given randomly, without warning
- 15% - Projects - at least one involving an advanced topic and *Maple*
- 20% - Final Exam - exam covering all of the material from the semester
- 10% - Class participation - interaction during class, and in projects/presentations

IMPORTANT DATES FOR SPRING 2010
- 2010.01.13 - Classes begin
- 2010.01.20 - Last day to add a class
- 2010.01.20 - Last day to drop a class with no grade record
- 2010.01.20 - Last day to drop a class with refund/no charges
- 2010.03.03 - Mid-Level Assessment Day
- 2010.03.12 - Last day to drop a class with automatic W
- 2010.04.01 - Last day to apply for graduation
- 2010.04.16 - Last day to drop a class
- 2010.05.14 - Classes end

SPECIAL ACCOMMODATIONS   Any student needing special accommodations due to a disability should contact the Coordinator of Student Disability Services, Student Union, Suite 204 or call (580) 745-2254 (TDD# 745-2704). It is the responsibility of each student to make an official request to the Coordinator for accommodations.