MATH 107-01, Linear Methods, Spring 2008

Math 107 – 1 **Linear Methods** **Spring 2008**

Instructor: Dr. Tom Caplinger

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Office hours: 9:00 – 10:00 MTWRF and by appointment

Text: *Finite Mathematics & Its Applications,* 9th ed., by Goldstein, Schneider, and Siegel

Course description:

Credits: 4
Degree requirements: Natural Science, F6.
Topics include systems of linear equations, matrices, matrix inversion and applications (including Leontief input-output analysis), mathematical programming, linear programming and the simplex method, finite Markov chains, and game theory.
Prerequisites: None.

Course requirements:

In addition to three in-class tests, quizzes, and a comprehensive final exam, students will complete Problem Sets on a regular basis. Students may work in groups to solve the problems in these homework assignments, but each student will write his/her own report of the solutions. Grading of the Problem Sets will be based on accuracy and presentation.

Course content:

January 9 – February 6	2.1 – 2.5	Test 1 – February 6
February 7 – February 29	2.6, Chapter 8	Test 2 – February 29
	Spring Break, March 3 – 7	
March 10 – April 4	Chapter 3, 4.2 – 4.3	Test 3 – April 4
	Easter recess, March 20, 21	
April 7 – April 23	4.5, Chapter 9	
May 2	Final Exam	5:30 pm

Grading:

Three tests	50%
Quizzes	15%
Problem Sets	15%
Final (comprehensive)	20%

If the final exam grade is higher than that of any of the tests, the final exam grade will replace that lowest test grade. Course grades will be assigned on averages in the following ranges:

94 – 100	A	73 – 76	C
90 – 93	A-	70 – 72	C-
87 – 89	B+	67 – 69	D+
83 – 86	B	60 – 66	D
80 – 82	B-	0 – 59	F