MATH 311, Sec. 1 – Vector Analysis, Spring 2007

Instructor — Prof. J. Lorenz, Humanities 426, tel. 277-4923

Time and Place: TuTh 9:30 — 10:45; DSH 234

Office Hours — MTuW 4 − 5 or by appointment

The textbook for this course is *Introduction to Vector Analysis* by H. Davis and A. Snider (7th Edition). The lectures will cover the following material:

TuTh	1.1 – 1.11		Week 1
TuTh	1.12 – 2.1	Quiz #1; Hw #1	Week 2
TuTh	2.2 – 2.3	Quiz #2; Hw #2	Week 3
TuTh	2.3 – 2.4	Quiz #3; Hw #3	Week 4
TuTh	3.1 – 3.3	Quiz #4; Hw #4	Week 5
TuTh	3.4 – 3.6	Quiz #5; Hw #5	Week 6
TuTh	3.8, 3.10		Week 7
TuTh	Review	Midterm Exam	Week 8
		on 1.1 – 3.10	
TuTh	4.1 – 4.2		Week 9
TuTh	4.3 – 4.4	Quiz #6; Hw #6	Week 10
TuTh	4.6 – 4.7	Quiz #7; Hw #7	Week 11
TuTh	4.8 – 4.9	Quiz #8; Hw #8	Week 12
TuTh	5.1, 5.4	Quiz #9; Hw #9	Week 13
TuTh	5.4 – 5.5		Week 14
TuTh	Review		Week 15
Tu May 8	Final, comprehensive, 7:30 – 9:30		Week 16

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There will be nine homework assignments during the semester. Your homework will not be collected or graded. Instead, there will be a short, 15 minute quiz every Thursday when homework is assigned. Each quiz will include 2 short problems chosen from (or close to) your homework assignment.

I will count the best seven quizzes towards your grade. Quizzes cannot be made up.

There will also be a midterm exam and a final. Your grade will be based on the quizzes, the midterm, and the final exam in the following way:

Quizzes	— 30%
Midterm Exam	— 30%
Final Exam	— 40%

Note: Qualified students with disabilities needing appropriate academic adjustments should contact me as soon as possible to ensure your needs are met in a timely manner.

HOMEWORK ASSIGNMENTS

Homework #1 (prepare for Quiz #1)

Section 1.2:	1,2,3,4,8
Section 1.3:	1,2,3,4,6,7,8,9,12,13
Section 1.4:	1,2,3,4,6,9,10,13
Section 1.5:	1,2,3,4,5,9,12,13
Section 1.7:	1,2,3,4,5,9,13-24
Section 1.8:	1,3,7,8,11,18

Homework #2 (prepare for Quiz #2)

Section 1.9:	1,2,3,4,7,11,12,13,21
Section 1.10:	1,2,3,4,7,13,14,18,26
Section 1.12:	1,2,3,4,5,8,12,17,20,21
Section 1.13:	1,2,4,6,7,11,12
Section 1.14:	1,2,3,6,7,8,9,11

Homework #3 (prepare for Quiz #3)

Section 2.1:	1,2,3,4,5
Section 2.2:	1,2,3,4,7,8

Homework #4 (prepare for Quiz #4)

Section 2.3:	1,3,4,5,6,7,9,10,15,17,21
Section 2.4:	1,2,3,4,7,13,14

Homework #5 (prepare for Quiz #5)

Section 3.1:	1,2,3,4,6,9,10,12,20,22
Section 3.2:	1,2,3
Section 3.3:	1,2,3,4,5,6,8,9

Homework #6 (prepare for Quiz #6)

Section 4.1:	3,4,5,6,7,8,9,13,18
Section 4.2:	2,3,4,5,6,8,10

Homework #7 (prepare for Quiz #7)

Section 4.3:	1,2,3,4,5,6,7
Section 4.4:	1,2,3,4,5,6,7,8,9,10,11

Homework #8 (prepare for Quiz #8)

Section 4.6:	2,3,4,5,9,10
Section 4.7:	1,2,3,4,5,8,14,16,19

Homework #9 (prepare for Quiz #9)

Section 4.8:	1,2,3,5,6
Section 4.9:	1,2,3,4,5,9,11,12,13,14,16,22,26