

Vector Calculus

Math 3740.001, Fall 2010, MWF 9:00-9:50, Language 310

Professor: Dr. Conley, GAB 419, 565-3326, conley@unt.edu. Assignments and announcements will be posted at www.math.unt.edu/~conley.

Office Hours: MW 10:00-11:30, F 10:00-11:00

Text and Prerequisites: The text is *Vector Calculus*, fifth edition, by Marsden & Tromba. The prerequisites are Calculus III (2730) and Linear Algebra (2700).

Exams, Homework, and Grading: There will be two 100 point midterms, on the Wednesdays of October 6 and November 10, and a comprehensive 180 point final on Monday, December 13, 8:00-10:00. There will also be thirteen problem sets, eleven worth 10 points each and two worth 5 points each. These are usually due Fridays at the beginning of class. There will be no make-up exams, and late homework will not be accepted. Homework which is messy, unstapled, or inconvenient for the grader will be penalized 1 or 2 points.

Disabled Students: Please let me know of your disability at the end of the first lecture.

Tentative Plan: I plan to cover essentially the entire book, skipping certain sections not essential to the flow. The first three chapters should be review, so we will go over them quickly. Chapters 4-8 are the core of the course, and we will cover them at a rate of around two or three sections per week.

Problem Set 1 (due Friday, September 3):

Section 1.1: 6, 22, 28

Section 1.2: 14, 18

Section 1.3: 4, 6, 8, 10, 16c, 18, 24, 28

Section 1.4: 2ab, 3b, 4, 8

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MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
8/23	8/24	8/25	8/26	8/27 First Class
8/30	8/31	9/1	9/2	9/3 HW 1
9/6 Holiday	9/7	9/8	9/9	9/10 HW 2 (5 points)
9/13	9/14	9/15	9/16	9/17 HW 3
9/20	9/21	9/22	9/23	9/24 HW 4
9/27	9/28	9/29	9/30	10/1 HW 5
10/4	10/5	10/6 Exam 1	10/7	10/8
10/11	10/12	10/13	10/14	10/15 HW 6
10/18	10/19	10/20	10/21	10/22 HW 7
10/25	10/26	10/27	10/28	10/29 (Drop Day) HW 8
11/1	11/2	11/3	11/4	11/5 HW 9
11/8	11/9	11/10 Exam 2	11/11	11/12
11/15	11/16	11/17	11/18	11/19 HW 10
11/22	11/23	11/24 HW 11 (5 points)	11/25 Holiday	11/26 Holiday
11/29	11/30	12/1	12/2	12/3 HW 12
12/6	12/7	12/8 HW 13	12/9	12/10 No Class
12/13 Final Exam: 8-10	12/14	12/15	12/16	12/17