

Math 2210. Section 1. Fall 2007

Class Meetings. MWF 9:40-10:30 in LCB 219.

Textbook. D. Varber, E. J. Purcell, S. E. Rigdon, *Calculus with Differential Equations*, Ninth Edition, Chapters 11-14.

Lecturer. Dan Ciubotaru, LCB 106, e-mail: ciubo@math.utah.edu

Office Hours. tba

Homework. 8-10(?) graded homework sets. Late homeworks are not allowed.

Exams. Three midterms and a final exam. Tentative schedule:

Quiz 1 W 9/17 Chapter 11

Quiz 2 M 10/22 Chapter 12

Quiz 3 F 11/16 Chapter 13

Final Dec 10-14 Chapters 11-14

The tests will be closed book, closed notes, and no calculators are allowed.

Grading. Final exam, 300 pts, midterms, 3×100 pts, homeworks, 200 pts (total 800 points).

Syllabus (subject to change)

1.	8/20	M	11.1	Cartesian coordinates
2.	8/22	W	11.2	Vectors
3.	8/24	F	11.3	Dot product
4.	8/27	M	11.4	Cross product
5.	8/29	W	11.5	Vector-valued functions
6.	8/31	F	11.6	Tangent lines
	9/3	M		Labor Day
7.	9/5	W	11.7	Curvature
8.	9/7	F	11.8	Surfaces
9.	9/10	M	11.9	Cylindrical and spherical coordinates I
10.	9/12	W	11.9	Cylindrical and spherical coordinates II
11.	9/14	F		Review Chapter 11
12.	9/17	M		Quiz 1
13.	9/19	W	12.1	Multivariable functions
14.	9/21	F	2.2-2.6	Review differentiation in one variable
15.	9/24	M	12.2	Partial derivatives
16.	9/26	W	12.3	Limits and continuity
17.	9/28	F	12.4	Differentiability
18.	10/1	M	12.5	Directional derivatives
19.	10/3	W	12.6	Chain rule

20.	10/5	F	12.7	Tangent planes
	10/8-10/12	MWF		Fall Break
21.	10/15	M	12.8	Extrema
22.	10/17	W	12.9	Lagrange multipliers
23.	10/19	F		Review Chapter 12
24.	10/22	M		Quiz 2
25.	10/24	W	Ch. 7	Review techniques of integration
26.	10/26	F	13.1,13.2	Double integrals I
27.	10/29	M	13.3	Double integrals II
28.	10/31	W	13.4	Double integrals III
29.	11/2	F	13.5	Applications
30.	11/5	M	13.6	Surface areas
31.	11/7	W	13.7	Triple integrals I
32.	11/9	F	13.8	Triple integrals II
33.	11/12	M	13.9	Change of variables
34.	11/14	W		Review Chapter 13
35.	11/16	F		Quiz 3
36.	11/19	M	14.1	Vector fields
37.	11/21	W	14.2	Line integrals
	11/23	F		Thanksgiving Break
38.	11/26	M	14.3	Independence of path
39.	11/28	W	14.4	Green's theorem
40.	11/30	F	14.5	Surface integrals
41.	12/3	M	14.6	Divergence theorem
42.	12/5	W	14.7	Stokes' theorem
43.	12/7	F		Review Chapter 14