

Differential Equations and Linear Algebra

Math 2250 Fall Semester 2006

Midterm 1 [Oct 3] Av= , Scores _____

Midterm 2 [Oct 31] Av= , Scores _____

Midterm 3 [Nov 28] Av= , Scores _____

Final [Dec 12,13,14] Av= , Scores _____

Average of Midterms and Final: $AV_1 =$

Average of daily work and maple labs: $AV_2 =$

Final Grade: $\frac{70}{100}AV_1 + \frac{30}{100}AV_2 =$

Questions: 581-6879, Office: 113 JWB. Or send email.

Tentative Due Dates and Lectures 2250 Fall 2006

Lecture Week 1, Aug 23,25

Sections 1.1,1.2.

25 Aug Page 16, 1.2: 2 ,

Lecture Week 2, Aug 28,30, Sep 1

Sections 1.3,1.4,1.5.

28 Aug Page 16, 1.2: 4 , 6 ,
10

29 Aug, Report examples in lab.

30 Aug Page 26, 1.3: 8 , 14

01 Sep Page 41, 1.4: 6 , 12

Lecture Week 3, Sep 4,6,8

Sections 2.1,2.2,2.3,2.4.

04 Sep Holiday 05 Sep, Begin maple 1 in lab.

06 Sep Page 41, 1.4: 18 , 22 ,

26

08 Sep Page 54, 1.5: 8 , 18 ,

20 , 34

Lecture Week 4, Sep 11,13,15

Sections 2.5,2.6,3.1.

11 Sep Page 86, 2.1: 8 , 16

12 Sep, Begin maple 2 in lab.

13 Sep Page 96, 2.2: 10 , 14

15 Sep Page 106, 2.3: 10 , 20

15 Sep Maple Lab 1:

Intro maple L1.1 , L1.2

Lecture Week 5, Sep 18,20,22

Sections 3.2,3.3,3.4.

18 Sep Page 119 2.4: 6 , 12

Symbolic sol

19 Sep Lab lecture on Numerical sol

[29 Sep maple 3: 2.4,2.5,2.6-6,12]

20 Sep Page 152, 3.1: 6 , 16 ,

26

22 Sep Maple Lab 2: Newton Cooling

L2.1 , L2.2 , L2.3 ,

L2.4

Lecture Week 6, Sep 25,27,29

Sections 3.5,3.6.

25 Sep Page 162, 3.2: 10 , 14 ,
24
26 Sep, Exam 1 review in lab.
27 Sep Page 170, 3.3: 10 , 20
29 Sep, Maple 3, Numerical DE
[2.4,2.5,2.6-6,12] due, 1200 possible

Lecture Week 7, Oct 2,4
Sections 4.1,4.2.

02 Oct Exam 1 review continued
03 Oct Midterm 1 100 possible
04 Oct Page 182, 3.4: 20 , 30 ,
34 , 40
05-06 Oct Fall Break

Lecture Week 8, Oct 9,11,13
Sections 4.3,4.4,4.5,4.6.

09 Oct Page 194, 3.5: 16 , 26 ,
44
10 Oct Lab: Begin maple 4 Matrices, Ch3
problem session.
11 Oct Page 212, 3.6: 6 , 20 ,
32 , 40 , 60
13 Oct Page 233, 4.1: 16 , 20 ,
32

Lecture Week 9, Oct 16,18,20
Sections 4.7,5.1,5.2,5.3.

16 Oct Page 240, 4.2: 4 , 18 ,
28
18 Oct Page 248, 4.3: 18 , 24
20 Oct Page 255, 4.4: 6 , 24

Lecture Week 10, Oct 23,25,27
Sections 5.4,5.5,5.6.

23 Oct Page 263, 4.5: 6 , 24 ,
28
23 Oct Page 271, 4.6: 2
24 Oct, Exam 2 review in lab.

25 Oct Page 278, 4.7: 10 , 20 ,
26
27 Oct Page 294, 5.1: 34 , 36 ,
38 , 40 , 42 , 46 , 48

Lecture Week 11, Oct 30, Nov 1,3
Sections 6.1,6.2,7.1.

30 Oct, Exam 2 review continued from Oct
24.
31 Oct, Midterm 2 100 possible
01 Nov Page 306, 5.2: 18 , 22
03 Nov Maple Lab 4: Matrices
L4.1 , L4.2 , L4.3

Lecture Week 12, Nov 6,8,10
Sections 7.2,7.3,7.4.

06 Nov Page 319, 5.3: 8 , 10 ,
16 , 32
07 Nov Maple 5 lecture in lab. First 1/4 of
Exam 3 review.
08 Nov Page 331, 5.4: 20 , 34
10 Nov Page 346, 5.5: 6 , 12 ,
22 , 54 , 58

Lecture Week 13, Nov 13,15,17
Sections 10.1,10.2,10.3.

13 Nov Page 357, 5.6: 4 , 8 ,
18
14 Nov, Exam 3 review in lab, continued.
15 Nov Page 370, 6.1: 12 , 20 ,
32 , 36
17 Nov Page 379, 6.2: 6 , 18 ,
28

Lecture Week 14, Nov 20,22
Sections 10.3,10.4.

20 Nov Page 400, 7.1: 8 , 20
22 Nov Page 413, 7.2: 12 , 14
23-24 Nov Holiday

Lecture Week 15, Nov 27,29, Dec 1
Laplace problems and examples. Final exam review.

27 Nov Page 425, 7.3: 8 , 20 ,
30
27 Nov Page 438, 7.4: 6
28 Nov, Midterm 3 100 possible
29 Nov Page 576, 10.1: 18 , 28
01 Dec Maple Lab 5: Resonance
L5.1 , L5.2 , L5.3

Lecture Week 16, Dec 4,6

Final exam review.

04 Dec Page 588, 10.2: 10 , 16 ,
24
05 Dec, Final Exam review in lab.
06 Dec, Final Exam review in class.
06 Dec Page 597, 10.3: 6 , 18 ,
20 , 36
06 Dec Page 606, 10.4: 22
07 Dec, Lectures end.
08 Dec, Reading Day.

Week 17, Dec 11-15

Final exam for the 7:30 class is Thursday
December 14, 10:10-12:45.
Final exam for the 10:45 class is Wednesday,
December 13, 7:45-10:15am.
Final exam for the 6:00 class is Tuesday
December 12, 6:00-8:30pm.
Final exam score == , 200 possible

Dec 16-Jan 7

Semester Break

Extra Credit: Under the door, 113jwb.

07 Dec, Ch10 Extra Credit,
10.3-24 , 10.4-12 , 10.5-6 ,
10.5-28 , TBA , TBA ,
07 Dec, Maple Makeup Lab 6:
Narrows L6.1 , L6.2 , L6.3
7 Dec, Maple Makeup Lab 7:
Quake L7.1 , L7.2 , L7.3 ,
Quake L7.4 , L7.5 , L7.6
No extra credit accepted after 9pm on 07
Dec.

Policy on Dailies: The highest 124 dailies will be counted. The lowest 8 of the 132() dailies will be dropped. Any record with less than 75 daily and lab scores earns a grade of **E**, regardless of midterm and final exam scores. Deadlines set at web site www.math.utah.edu/~gustafso/. Work not in the stack sent to the assistant is late and it earns a grade of zero.

Policy on Exams: The final exam is doubled before determining the exam average, to count like two midterms.

Grading Scale: A = 95-100, A- = 92-94, B+ = 88-91, B = 84-87, B- = 80-83, C+ = 75-79, C = 65-74, C- = 60-64.