

Differential Equations and Linear Algebra

Math 2250 5:55pm Fall Semester 2006

Midterm 1 [Oct 4] Av= , Scores _____

Midterm 2 [Nov 1] Av= , Scores _____

Midterm 3 [Nov 29] Av= , Scores _____

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

Average of Midterms and Final: $AV_1 = \text{$

Average of daily work and maple labs: $AV_2 = \text{$

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

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

Tentative Due Dates and Lectures 2250 Fall 2006

Lecture Week 1, Aug 24

Sections 1.1,1.2,1.3.

Nothing due.

Lecture Week 2, Aug 29,30,31

Sections 1.3,1.4,1.5.

29 Aug Page 16, 1.2: 2 ,

29 Aug Page 16, 1.2: 4 , 6 ,

10

30 Aug, Report examples in lab.

31 Aug Page 26, 1.3: 8 , 14

Lecture Week 3, Sep 5,6,7

Sections 2.1,2.2,2.3,2.4.

04 Sep Holiday 05 Sep Page 41, 1.4: 6 ,

12 05 Sep Page 41, 1.4: 18 ,

22 , 26

06 Sep, Begin maple 1 in lab.

08 Sep Page 54, 1.5: 8 , 18 ,

20 , 34

Lecture Week 4, Sep 12,13,14

Sections 2.5,2.6,3.1.

12 Sep Page 86, 2.1: 8 , 16

12 Sep Page 96, 2.2: 10 , 14

13 Sep, Begin maple 2 in lab.

14 Sep Page 106, 2.3: 10 , 20

14 Sep Maple Lab 1:

Intro maple L1.1 , L1.2

Lecture Week 5, Sep 19,20,21

Sections 3.2,3.3,3.4.

19 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]

21 Sep Page 152, 3.1: 6 , 16 ,

26

21 Sep Maple Lab 2: Newton Cooling

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

L2.4

Lecture Week 6, Sep 26,27,28

Sections 3.5,3.6.

26 Sep Page 162, 3.2: 10 , 14 ,
24

26 Sep Page 170, 3.3: 10 , 20

27 Sep, Exam 1 review in lab.

28 Sep, Maple 3, Numerical DE
[2.4,2.5,2.6-6,12] due, 1200 possible

Lecture Week 7, Oct 3,4

Sections 4.1,4.2.

03 Oct Page 182, 3.4: 20 , 30 ,
34 , 40

03 Oct Ch4 starts. Exam 1 review continued

04 Oct Midterm 1 100 possible

05-06 Oct Fall Break

Lecture Week 8, Oct 10,11,12

Sections 4.3,4.4,4.5,4.6.

10 Oct Page 194, 3.5: 16 , 26 ,
44

11 Oct Lab: Begin maple 4 Matrices, Ch3
problem session.

12 Oct Page 212, 3.6: 6 , 20 ,
32 , 40 , 60

12 Oct Page 233, 4.1: 16 , 20 ,
32

Lecture Week 9, Oct 17,18,19

Sections 4.7,5.1,5.2,5.3.

17 Oct Page 240, 4.2: 4 , 18 ,
28

17 Oct Page 248, 4.3: 18 , 24

18 Oct Ch4 problem session 19 Oct Page
255, 4.4: 6 , 24

Lecture Week 10, Oct 24,25,26

Sections 5.4,5.5,5.6.

24 Oct Page 263, 4.5: 6 , 24 ,
28

24 Oct Page 271, 4.6: 2 ,

25 Oct, Exam 2 review in lab.

26 Oct Page 278, 4.7: 10 , 20 ,
26

26 Oct Page 294, 5.1: 34 , 36 ,
38 , 40 , 42 , 46 , 48

Lecture Week 11, Oct 31, Nov 1,2

Sections 6.1,6.2,7.1.

31 Oct, Ch6 and Exam 2 review continued
from Oct 25.

01 Nov, Midterm 2 100 possible

02 Nov Page 306, 5.2: 18 , 22

02 Nov Maple Lab 4: Matrices

L4.1 , L4.2 , L4.3

Lecture Week 12, Nov 7,8,9

Sections 7.2,7.3,7.4.

07 Nov Page 319, 5.3: 8 , 10 ,
16 , 32

08 Nov Maple 5 lecture in lab. First 1/4 of
Exam 3 review.

09 Nov Page 331, 5.4: 20 , 34

09 Nov Page 346, 5.5: 6 , 12 ,
22 , 54 , 58

Lecture Week 13, Nov 14,15,16

Sections 10.1,10.2,10.3.

14 Nov Page 357, 5.6: 4 , 8 ,
18

15 Nov, Exam 3 review in lab, continued.

16 Nov Page 370, 6.1: 12 , 20 ,
32 , 36

16 Nov Page 379, 6.2: 6 , 18 ,
28

Lecture Week 14, Nov 21,22

Sections 10.3,10.4.

21 Nov Page 400, 7.1: 8 , 20

21 Nov Page 413, 7.2: 12 , 14

22 Nov No lab scheduled. Appointments OK. 23-24 Nov Holiday

Lecture Week 15, Nov 28,29,30
Laplace problems and examples. Final exam review.

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

Lecture Week 16, Dec 5,6,7
Final exam review.

05 Dec Page 588, 10.2: 10 , 16 ,
24
06 Dec, Final Exam review in lab.
07 Dec, Final Exam review in class.
07 Dec Page 597, 10.3: 6 , 18 ,
20 , 36
07 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
07 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.