

# Differential Equations and Linear Algebra 2250

Grade Sheet with Due Dates and Lectures Spring 2006

Name: \_\_\_\_\_

Class time: \_\_\_\_\_

email: \_\_\_\_\_

Telephone: \_\_\_\_\_

Midterm 1 [Feb 14] Av= , Scores \_\_\_\_\_

Midterm 2 [Mar 21] Av= , Scores \_\_\_\_\_

Midterm 3 [Apr 18] Av= , Scores \_\_\_\_\_

Final [May 3,4] 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. Email ggustaf@math.utah.edu.

20  34

## Lecture Week 1, Jan 9,11,13

Sections 1.1,1.2,1.3.

10 Jan, Report examples in lab.

11 Jan Page 16, 1.2: 2

13 Jan Page 16, 1.2: 4  6

10

## Lecture Week 2, Jan 16,18,20

Sections 1.4,1.5.

16 Jan, Holiday.

17 Jan, Begin maple 1 in Tue lab.

18 Jan, nothing due. Maple

Tutorials start.

20 Jan Page 26, 1.3: 8  14

## Lecture Week 3, Jan 23,25,27

Sections 2.1,2.2,2.3,2.4.

23 Jan, nothing due.

24 Jan, Begin maple 2 in lab.

25 Jan Page 41, 1.4: 6  12

18  22  26

27 Jan Page 54, 1.5: 8  18

## Lecture Week 4, Jan 30, Feb 1,3

Sections 2.5,2.6,3.1. Re-do only through Ch1.

30 Jan Page 86, 2.1: 8  16

31 Jan, Numerical DE in lab.

1 Feb Page 96, 2.2: 10  14

3 Feb Page 106, 2.3: 10  20

## Lecture Week 5, Feb 6,8,10

Sections 3.2,3.3,3.4.

6 Feb Maple Lab 1:

Intro maple

L1.1  L1.2

7 Feb Page 152, 3.1: 6  16

26

7 Feb, Exam 1 review in lab.

Double credit for 2.4, 2.5, 2.6

[one stapled package]

8 Feb Page 119 2.4: 6

8 Feb Page 129 2.5: 6

8 Feb Page 139 2.6: 6

10 Feb Page 162, 3.2: 10  14   
24

**Lecture Week 6, Feb 13,15,17**  
Sections 3.5,3.6.

13 Feb Maple Lab 2:  
Newton Cooling  
L2.1  L2.2  L2.3   
L2.4

14 Feb Midterm 1  
15 Feb Page 170, 3.3: 10  20   
15 Feb, Begin Maple 3.  
17 Feb Page 182, 3.4: 20  30   
34  40

**Lecture Week 7, Feb 20,22,24.**  
Sections 4.1,4.2,4.3. Holiday Feb 20.  
Ch3 problems lab Feb 21.

20 Feb, Holiday.  
21 Feb, Ch3 problem session in lab.  
Double credit for 2.4, 2.5, 2.6  
[one stapled package]

22 Feb Page 119 2.4: 12    
22 Feb Page 129 2.5: 12    
22 Feb Page 139 2.6: 12    
24 Feb Page 194, 3.5: 16  26   
44

**Lecture Week 8, Feb 27, Mar 1,3**  
Sections 4.4,4.5,4.6,4.7.

27 Feb Page 212, 3.6: 6  20   
32  40  60   
28 Feb, Ch3 and Ch4 problem  
session; Maple 3 lab details.  
1 Mar Page 233, 4.1: 16  20   
32   
3 Mar Page 240, 4.2: 4  18   
28

**Lecture Week 9, Mar 6,8,10**  
Sections 5.1,5.2,5.3,5.4.

6 Mar Page 248, 4.3: 18  24   
7 Mar, Exam 2 review in lab.  
8 Mar Page 255, 4.4: 6  24   
10 Mar Page 263, 4.5: 6  24   
28   
11-19 Mar, Spring break.

**Lecture Week 10, Mar 20,22,24**  
Exam 2 review. Sections 5.5,5.6.

20 Mar Page 271, 4.6: 2   
20 Mar, Exam 2 review continued  
from Mar 7.  
21 Mar, Midterm 2  
22 Mar Page 278, 4.7: 10  20  
 26   
24 Mar Page 294, 5.1: 34   
36  38  40  42   
46  48

**Lecture Week 11, Mar 27,29,31**  
Sections 6.1,6.2,7.1.

27 Mar Page 306, 5.2: 18   
22   
28 Mar Maple Lab 3:  
Matrix Algebra L3.1  L3.2   
L3.3   
29 Mar Page 319, 5.3: 8  10   
16  32   
31 Mar Page 331, 5.4: 20   
34

**Lecture Week 12, Apr 3,5,7**  
Sections 7.2,7.3,7.4.

3 Apr Page 346, 5.5: 6  12   
22  54  58   
4 Apr, Maple 4 lecture in lab. First  
1/4 of Exam 3 review.

5 Apr Page 357, 5.6: 4  8   
18

7 Apr Page 370, 6.1: 12  20   
32  36

**Lecture Week 13, Apr 10,12,14**  
Sections 10.1,10.2,10.3.

10 Apr Page 379, 6.2: 6  18   
28

11 Apr, Exam 3 review in lab,  
continued.

12 Apr Page 400, 7.1: 8  20   
14 Apr Page 413, 7.2: 12  14

**Lecture Week 14, Apr 17,19,21**  
Sections 10.3,10.4.

17 Apr Page 425, 7.3: 8  20   
30

17 Apr Page 438, 7.4: 6

18 Apr, Midterm 3

19 Apr Page 576, 10.1: 18   
28

21 Apr Maple Lab 4:  
Mechanical Oscillations  
L4.1  L4.2  L4.3

**Lecture Week 15, Apr 24,25,26**  
Laplace problems and examples. Final  
exam review.

24 Apr Page 588, 10.2: 10  16  
 24

25 Apr Page 597, 10.3: 6  18  
 20  36

25 Apr, Final Exam review in lab.  
Continues 26 Apr.

26 Apr Page 606, 10.4: 22   
26 Apr, Lectures end.  
27 Apr, Reading Day.

**Week 16, Apr 28, May 1-4**  
Final exam for the 7:30 class is  
Thursday, May 4, 8-10am.  
Final exam for the 10:45 class is  
Wednesday May 3, 10:30-12:30.

**Extra Credit:** Under the door,  
113jwb, by 9pm 27 Jan.

27 Apr, Ch10 Extra Credit:

10.3-24  10.4-12

10.5-6  10.5-28

27 Apr, Maple Makeup Lab 5:

Tacoma Narrows  
L5.1  L5.2  L5.3

27 Apr, Maple Makeup Lab 6:

Earthquake  
L6.1  L6.2  L6.3

**Policy on Dailies:** The highest 122 dailies will be counted. The lowest 8 of the 130 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/](http://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.