

Differential Equations and Linear Algebra 2250

Grade Sheet with Due Dates and Lectures Spring 2008

Midterm 1 [Feb 12]

Av1=

Midterm 2 [Mar 11]

Av2=

Midterm 3 [Apr 15]

Av3=

Final Exam [Apr 25, 28]

AvFin=

Average of dailies including maple labs:

AvDaily=

$$\text{Final Grade: } \frac{70}{100} \left(\frac{\text{Av1} + \text{Av2} + \text{Av3} + \text{AvFin} + \text{AvFin}}{5} \right) + \frac{30}{100} \text{AvDaily} = \text{ }$$

Questions: 581-6879, Office: 113 JWB. Email ggustaf@math.utah.edu.

Lecture Week 1, Jan 7,9,11

Sections 1.1,1.2,1.3.

07 Jan, Intro, GB Gustafson, nothing due.

08 Jan, Intro, Meucci and Zhang

09 Jan, Page 16, 1.2: 2 ,

11 Jan, Page 16, 1.2: 4 , 6

Lecture Week 4, Jan 28,30, Feb 1

Sections 2.5,2.6,3.1.

28 Jan, Page 86, 2.1: 6 , 16

29 Jan, Discuss L2.2. Discuss L3.1. No maple.

30 Jan, Page 96, 2.2: 10 , 18

01 Feb, Submit Intro Maple: L1.1 , L1.2

Lecture Week 2, Jan 14,16,18

Sections 1.4,1.5.

14 Jan, Page 16, 1.2: 10

15 Jan, Begin maple lab 1.

16 Jan, Page 26, 1.3: 6 , 14

17 Jan, First maple lecture, LCB115, TBA

18 Jan, Page 41, 1.4: 6 , 10

18 Jan, Repeat maple lecture, LCB115, TBA.

Lecture Week 5, Feb 4,6,8

Sections 3.2,3.3,3.4.

04 Feb, Page 106, 2.3: 10 , 20

05 Feb, Exam 1 review, problems 1,2.

05 Feb, Discuss L2.3.

06 Feb, Page 152, 3.1: 4 , 18 ,

26

08 Feb, Page 162, 3.2: 10 , 18 ,

24

Lecture Week 3, Jan 21,23,25

Sections 2.1,2.2,2.3,2.4.

21 Jan, Martin Luther King Holiday.

22 Jan, Tuiton due. Begin maple 2. Discuss L2.1.

23 Jan, Page 41, 1.4: 18 , 26 ,

26

25 Jan, Page 54, 1.5: 6 , 18 ,

22 , 34

Lecture Week 6, Feb 11,13,15

Sections 3.5,3.6.

11 Feb, Newton Cooling L2.1

11 Feb, symbolic sol L3.1 , L4.1 .

12 Feb, Midterm 1, five problems.

13 Feb, Page 170, 3.3: 8 , 18

15 Feb, Page 182, 3.4: 18

Lecture Week 7, Feb 18,20,22.

Sections 4.1,4.2,4.3.

18 Feb, President's Day holiday.
19 Feb, Ch3 problem session in lab.
19 Feb, Discuss maple L3.2, L3.3, L3.4.
20 Feb, Page 182, 3.4: 30 , 36 ,
40
22 Feb, Submit Newton Cooling L2.2 ,
L2.3

Lecture Week 8, Feb 25,27,29

Sections 4.4,4.5,4.6,4.7.

25 Feb, Page 194, 3.5: 14 , 26 , 38

26 Feb, Ch3 and Ch4 problem session.
26 Feb, Discuss maple L4.2, L4.3, L4.4.
27 Feb, Submit maple Newton Cooling: L2.4

29 Apr, Page 212, 3.6: 6 , 18 ,
30 , 38 , 64

Lecture Week 9, Mar 3,7,9

Sections 5.1,5.2,5.3,5.4.

03 Mar, Page 233, 4.1: 18 , 22 ,
30
04 Mar, Exam 2 review.
05 Mar, Page 240, 4.2: 6 , 16 ,
24
07 Mar, Page 248, 4.3: 20 , 26
07 Mar, Page 255, 4.4: 4 , 22

Lecture Week 10, Mar 12,14,16

Sections 5.5,5.6.

10 Mar, Exam review continued.
11 Mar, Midterm 2, five problems. 12 Mar,
Page 263, 4.5: 8 , 22 ,
28
12 Mar, Page 271, 4.6: 4
14 Mar, Page 278, 4.7: 10 , 22 ,
24
16 Mar, Submit maple Matrix Algebra,
L5.1 , L5.2 , L5.3

Lecture Spring Break

Happy holiday!

17-23 Mar, No classes.

Lecture Week 11, Mar 24,26,28

Sections 6.1,6.2,7.1,7.2.

24 Mar, Page 294, 5.1: 34 , 36 ,
38 , 40 , 42 ,
46 , 48
25 Mar, one stapled package L3+L4
25 Mar, Submit maple L3.2 , L3.3 ,
L3.4
25 Mar, Submit maple L4.2 , L4.3 ,
L4.4
25 Mar, Discuss maple L5.1, L5.2, L5.3.
26 Mar, Page 306, 5.2: 16 , 24
26 Mar, Page 319, 5.3: 6 , 12
28 Mar, Page 319, 5.3: 18 , 30

Lecture Week 12, Mar 31, Apr 2,4

Sections 7.3,7.4,10.1.

31 Mar, Page 331, 5.4: 18 , 34
01 Apr, Exam 3 review. Discuss maple L6.1,
L6.2, L6.3.
02 Apr, Page 346, 5.5: 6 , 14 ,
27 , 50 , 62
04 Apr, Page 357, 5.6: 2 , 10

16

Lecture Week 13, Apr 7,9,11

Sections 10.2,10.3.

07 Apr, Page 370, 6.1: 10 , 22 ,
30 , 40

07 Apr, Page 379, 6.2: 8 , 20 ,
26

08 Apr, Exam 3 review.

09 Apr, Page 400, 7.1: 6 , 18

09 Apr, Page 413, 7.2: 8 , 16

11 Apr, Page 425, 7.3: 10 , 22 ,
40

Lecture Week 14, Apr 14,16,18

Section 10.4. Midterm 3 review.

14 Apr, Page 438, 7.4: 6

15 Apr, Midterm 3, five problems.

16 Apr, Page 576, 10.1: 22 , 28

18 Apr, Page 588, 10.2: 6 , 14 ,
22

Policy on Dailies: The highest 116 dailies will be counted. The lowest 9 of the 125 dailies will be dropped. Any record with less than 50 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 earns a grade of zero. Please replace the zero by doing extra credit.

Extra credit Policy: Records are locked at 9pm on 24 Apr. Ch10 and maple 7,8 credits apply to the semester dailies total. Other extra credit applies only to its chapter.

Policy on Exams: The exam score is $(\text{mid1}+\text{mid2}+\text{mid3}+\text{final}+\text{final})/5$.

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.

18 Apr, Submit maple Mechanical
Oscillations L6.1 , L6.2 , L6.3

Lecture Week 15, Apr 21,23

Laplace. Final exam review.

21 Apr, Page 597, 10.3: 6 , 16

21 Apr, Page 606, 10.4: 22 , 28

22 Apr, Final Exam review.

23 Apr, Final exam review. Lectures end.

23 Apr, Reading Day. Office hours finished.

24 Apr, Extra credit due 113jwb by 9pm.

25 May, 2250-2 Final Exam LCB 219

10:10am. 28 Apr, 2250-1 Final Exam JTB
140 7:30am.

Exam Period, Apr 25 to May 3

Final exam for the 7:30 class is Monday, April 28, 2008 from 7:30am to 10am [JTB 140].

Final exam for the 10:45 class is Friday April 25, 2008, 10:10am to 12:30pm [LCB 219].

Extra Credit: Under the door, 113jwb.

24 Apr, Ch10 Extra Credit. About 9 problems appear on the ch10 extra credit page.

24 Apr, Maple Optional Lab 7:

Tacoma Narrows L7.1 , L7.2

24 Apr, Maple Optional Lab 8:

Earthquake L8.1 , L8.2 , L8.3