

Differential Equations and Linear Algebra 2250

Grade Sheet with Due Dates and Lectures Spring 2007

Midterm 1 [Feb 14]

Av1=

Midterm 2 [Mar 13]

Av2=

Midterm 3 [Apr 17]

Av3=

Final Exam [Apr 27, May 3]

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 8,10,12

Sections 1.1,1.2,1.3.

08 Jan, Intro, GB Gustafson, nothing due.

09 Jan, Intro, Chen and Todorov.

10 Jan, Page 16, 1.2: 2 ,

12 Jan, Page 16, 1.2: 4 , 6

Lecture Week 4, Jan 29,31, Feb 2

Sections 2.5,2.6,3.1.

20 Jan, Page 86, 2.1: 8 , 16

30 Jan, Discuss L2.2. Discuss L3.1.

31 Jan, Page 96, 2.2: 10 , 14

02 Feb, Submit Intro Maple L1.1 , L1.2

Lecture Week 2, Jan 15,17,19

Sections 1.4,1.5.

15 Jan, Martin Luther King Holiday.

16 Jan, Begin maple lab 1.

17 Jan, Page 16, 1.2: 10

18 Jan, First maple intro, LCB115, TBA

19 Jan, Page 26, 1.3: 8 , 14

19 Jan, Repeat maple intro, LCB115, TBA.

Lecture Week 5, Feb 5,7,9

Sections 3.2,3.3,3.4.

05 Feb, Page 106, 2.3: 10 , 20

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

06 Feb, Discuss L2.3.

07 Feb, Page 152, 3.1: 6 , 16 , 26

09 Feb, Page 162, 3.2: 10 , 14 , 24

Lecture Week 3, Jan 22,24,26

Sections 2.1,2.2,2.3,2.4.

22 Jan, Page 41, 1.4: 6 , 12

23 Jan, Begin maple 2. Discuss L2.1.

24 Jan, Page 41, 1.4: 18 , 22 , 26

26 Jan, Page 54, 1.5: 8 , 18 , 20

, 34

Lecture Week 6, Feb 12,14,16

Sections 3.5,3.6.

13 Feb, Newton Cooling L2.1

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

14 Feb, Midterm 1, Ex1-1 , Ex1-2 ,

Ex1-3 , Ex1-4 , Ex1-5

15 Feb, Page 170, 3.3: 10 , 20

17 Feb, Page 182, 3.4: 20

Lecture Week 7, Feb 19,21,23.
Sections 4.1,4.2,4.3.

19 Feb, President's Day holiday.
20 Feb, Ch3 problem session in lab.
20 Feb, Discuss maple L3.2, L3.3, L3.4.
21 Feb, Page 182, 3.4: 30 , 34 , 40
23 Feb, Submit Newton Cooling L2.2 , L2.3

Lecture Week 8, Feb 26,28, Mar 2
Sections 4.4,4.5,4.6,4.7.

26 Feb, Page 194, 3.5: 16 , 26 , 44
27 Feb, Ch3 and Ch4 problem session.
27 Feb, Discuss maple L4.2, L4.3, L4.4.
28 Feb, Submit maple Newton Cooling: L2.4
02 Mar, Page 212, 3.6: 6 , 20 , 32 , 40 , 60

Lecture Week 9, Mar 5,7,9
Sections 5.1,5.2,5.3,5.4.

05 Mar, Page 233, 4.1: 16 , 20 , 32
06 Mar, Exam 2 review.
07 Mar, Page 240, 4.2: 4 , 18 , 28
08 Mar, Page 248, 4.3: 18 , 24
08 Mar, Submit maple L3.2 , L3.3 , L3.4

Lecture Week 10, Mar 12,14,16
Sections 5.5,5.6.

12 Mar, Exam review continued.
12 Mar, Page 255, 4.4: 6 , 24
13 Mar, Midterm 2, Ex2-1 , Ex2-2 , Ex2-3 , Ex2-4 , Ex2-5
14 Mar, Page 263, 4.5: 6 , 24 , 28
14 Mar, Page 271, 4.6: 2
16 Mar, Page 278, 4.7: 10 , 20 , 26
16 Mar, Submit maple L4.2 , L4.3 , L4.4

Lecture Spring Break
Happy holiday!

19-25 Mar, No classes.

Lecture Week 11, Mar 26,28,30
Sections 6.1,6.2,7.1,7.2.

26 Apr, Page 294, 5.1: 34 , 36 , 38 , 40 , 42 , 46 , 48
27 Mar, Discuss maple L5.1, L5.2, L5.3.
28 Mar, Page 306, 5.2: 18 , 22
28 Mar, Page 319, 5.3: 8 , 10
30 Mar, Page 319, 5.3: 16 , 32
30 Mar, Submit maple Matrix Algebra, L5.1 , L5.2 , L5.3

Lecture Week 12, Apr 2,4,6
Sections 7.3,7.4,10.1.

02 Apr, Page 331, 5.4: 20 , 34
03 Apr, Exam 3 review. Discuss maple L6.1, L6.2, L6.3.
04 Apr, Page 346, 5.5: 6 , 12 , 22 , 54 , 58
06 Apr, Page 357, 5.6: 4 , 8 , 18

Lecture Week 13, Apr 9,11,13

Sections 10.2,10.3.

09 Apr, Page 370, 6.1: 12 , 20 , 32 , 36

09 Apr, Page 379, 6.2: 6 , 18 , 28

10 Apr, Exam 3 review.

11 Apr, Page 400, 7.1: 8 , 20

11 Apr, Page 413, 7.2: 12 , 14

13 Apr, Page 425, 7.3: 8 , 20 , 30

Laplace. Final exam review.

23 Apr, Page 597, 10.3: 6 , 18

23 Apr, Page 606, 10.4: 22

24 Apr, Final Exam review.

25 Apr, Final exam review. Lectures end.

26 Apr, Reading Day. Office hours finished.

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

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

03 May, 2250-2 Final Exam LCB 219

10:10am.

Ch3 , Ch4 , Ch5 ,

Ch6 , Ch7 , Ch10

Exam Period, Apr 27 to May 3

Final exam for the 7:30 class is Friday, April 27, 2007 from 7:30am to 10am [JTB 140].

Final exam for the 10:45 class is Thursday May 3, 2007, 10:10am to 12:30pm [LCB 219].

Lecture Week 14, Apr 16,18,20

Section 10.4. Midterm 3 review.

16 Apr, Page 438, 7.4: 6

16 Apr, Submit maple Mechanical

Oscillations L6.1 , L6.2 , L6.3

17 Apr, Midterm 3, Ex3-1 , Ex3-2 ,

Ex3-3 , Ex3-4 , Ex3-5

18 Apr, Page 576, 10.1: 18 , 28

20 Apr, Page 588, 10.2: 10 , 16 , 24

Extra Credit: Under the door, 113jwb.

26 Apr, Ch10 Extra Credit, 10.3-24,

10.4-12 , 10.5-6 , 10.5-28

26 Apr, Maple Makeup Lab 7:

Tacoma Narrows L7.1 , L7.2 , L7.3

26 Apr, Maple Makeup Lab 8:

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

L8.4 , L8.5 , L8.6

Extra credit records locked at 9pm on 26

Apr. Ch10 and maple 7,8 credits apply to

the semester dailies total.

Lecture Week 15, Apr 23,25

Policy on Dailies: The highest 116 dailies will be counted. The lowest 8 of the 124 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.

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.