

Differential Equations and Linear Algebra 2250

Grade Sheet with Due Dates and Lectures Spring 2009

Midterm 1 [19 Feb]

Av1=

Midterm 2 [26 Mar]

Av2=

Midterm 3 [23 Apr]

Av3=

Final Exam [May 4-5]

AvFin=

Average of dailies including maple labs:

AvDaily=

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

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

Week 1, Jan 12 to 16

Lecture 1.1, 1.2, 1.3, 1.4.

12 Jan, Intro, GB Gustafson, nothing due.

13 Jan, Page 16, 1.2: 2 ,

14 Jan, Page 16, 1.2: 4 , 6 , 10

15 Jan, Intro, Thu. assistants Loc and Sita.

16 Jan, Begin maple lab 1.

Week 2, Jan 20 to 23

Lecture 1.5, 2.1, 2.2.

19 Jan, No class, Martin Luther King

20 Jan, Page 26, 1.3: 8

21 Jan, Page 26, 1.3: 14 ,

21 Jan, First maple intro, Week 2 in LCB115.

22 Jan, Discuss maple lab 1.

Review, drill, Q&A ch1.

23 Jan, Page 41, 1.4: 6 , 12

23 Jan, Repeat maple intro, Week 2 in LCB115.

Week 3, Jan 26 to 30

Lecture 2.3, 2.4, 2.5, 2.6.

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

27 Jan, Page 54, 1.5: 8 , 18

Repeat maple intro, LCB115.

28 Jan, Page 54, 1.5: 20 , 34

29 Jan, Discuss L2.1. Review, drill, Q&A ch1.

30 Jan, Page 86, 2.1: 8 , 16

Week 4, Feb 2 to 6

Lecture 3.1, 3.2, 3.3.

02 Feb, Page 96, 2.2: 10 , 14

03 Feb, Submit Maple lab 1:

L1.1 , L1.2 , L1.3 , L1.4

04 Feb, Page 106, 2.3: 10 , 20

05 Feb, Discuss L2.2, L3.1 and L4.1

06 Feb, Page 152, 3.1: 6 , 16 ,

26

Week 5, Feb 9 to 13

Lecture 3.4, 3.5, 3.6.

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

10 Feb, submit maple L2.1

10 Feb, submit maple L3.1 , L4.1

11 Feb, Page 170, 3.3: 10 , 20

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

12 Feb, Discuss L2.3.

13 Feb, Page 182, 3.4: 20

Week 6, Feb 17 to 20

Lecture 4.1, 4.2, 4.3.

16 Feb, No class, President's Day

17 Feb, Page 182, 3.4: 30 , 34 ,

40

18 Feb, nothing due
19 Feb, Midterm 1, Five problems ch1 and ch2
20 Feb, Page 194, 3.5: 16 , 26 ,
44

Week 7, Feb 23 to 27

Lecture 4.4, 4.5, 4.6, 4.7.

23 Feb, Page 212, 3.6: 6 , 20 ,
32 , 40 , 60
24 Feb, Page 233, 4.1: 16 , 20 ,
32
25 Feb, Page 240, 4.2: 4 , 18 ,
28
26 Feb, Review, drill, Q&A Ch3.
26 Feb, Discuss maple L3.2, L3.3, L3.4.
27 Feb, submit maple lab 2 remainder:
L2.2 , L2.3 , L2.4

Week 8, Mar 2 to 6

Lecture 5.1, 5.2, 5.3, 5.4.

02 Mar, Nothing due.
03 Mar, Page 248, 4.3: 18 , 24
04 Mar, Page 255, 4.4: 6 , 24
05 Mar, Exam 2 review.
05 Mar, Discuss maple L4.2, L4.3, L4.4.
06 Mar, Page 263, 4.5:
6 , 24 , 28

Week 9, Mar 9 to 13

Lecture 5.5, 10.1, 10.2, 10.3

09 Mar, Page 271, 4.6: 2
09 Mar, Submit maple lab3 remainder:
L3.2 , L3.3 , L3.4
10 Mar, Page 278, 4.7: 10 , 20 ,
26
11 Mar, Page 294, 5.1:
34 , 36 , 38 , 40 ,
42 , 46 , 48
12 Mar, Exam review continued.
13 Mar, Nothing due.

Spring Break: Mar 14-22

Happy Holiday!

14-22 Mar, Traveling? Nothing due from Mar 12-23. Substantial amounts of dailies and maple projects are due after the break.

Week 10, Mar 23 to 27

Lecture 10.4, 10.5, EPbvp7.6, 5.5

23 Mar, Nothing due.
24 Mar, Page 306, 5.2: 18 , 22
24 Mar, Page 319, 5.3: 8 , 10 ,
16 , 32
25 Mar, Nothing due.
26 Mar, Midterm 2, Five problems ch3, ch4,
ch5.1-5.3
27 Mar, Page 331, 5.4: 20 , 34
27 Mar, Page 576, 10.1: 18 , 28

Week 11, Mar 30,31 and Apr 1,2,3

Lecture 5.5, 5.6, EPbvp3.7, 6.1

30 Mar, Submit maple lab3 remainder:
L3.2 , L3.3 , L3.4
30 Mar, Submit maple L4 (L4.1 was 23 Sep):
L4.2 , L4.3 , L4.4
31 Mar, Page 588, 10.2: 10 , 16 ,
24
01 Apr, Page 597, 10.3: 6 , 18
02 Apr, Exam 3 review. Discuss maple lab5.
03 Apr, Page 606, 10.4: 22

Week 12, Apr 6 to 10

Lecture 6.2, 7.1, 7.2, 7.3.

06 Apr, Page 346, 5.5: 54 , 58 ,
6 , 12 , 22
07 Apr, Submit maple lab5:
L5.1 , L5.2 , L5.3
08 Apr, Page 616, 10.5: 4 , 22 , 28
09 Apr, Exam 3 review. Discuss maple lab6

10 Apr, Page 510 in EPbvp 7.6: 8 , 22

Week 13, Apr 13 to 17

Lecture 7.4, 7.5 /w Laplace, 8.1, 8.2.

13 Apr, Page 357, 5.6: 4 , 8 , 18

14 Apr, Page 227 in EPbvp 3.7: 4 , 12

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

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

16 Apr, Exam 3 review. Discuss maple lab7

17 Apr, Page 400, 7.1: 8 , 20

17 Apr, Page 413, 7.2: 12 , 14

Week 14, Apr 20 to 24

Lecture 9.1, 9.2, 9.3.

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

21 Apr, Page 438, 7.4: 6 , 24

22 Apr, Submit maple lab6:

L6.1 , L6.2 , L6.3

22 Apr, Submit maple lab7:

L7.1 , L7.2 , L7.3 , 7.4

23 Apr, Midterm 3, Five problems ch5, ch10, ch6

24 Apr, 8.1: 4 , 12 , 38

24 Apr, 8.2: 4 , 19

Week 15, Apr 27,28,29

Lecture 9.4, Review.

27 Apr, 9.1: 4 , 8 , 18

27 Apr, 9.2: 2 , 12 , 22

28 Apr, 9.3: 8 , 9 , 10

29 Apr, 9.4: 4 , 8

29 Apr, Office hours and lectures finished.

30 Apr, Extra Final Exam review, 2pm, LCB 219

06 May, Extra credit Ch9 and maple due.

Deliver under the door 113jwb by 6pm.

May 1 to 8, Final Exam period.

See the online final exam study guide.

Exam Period, May 1-8

Final exam for the 7:30 class is Tue, May 5, 2009 from 7:30am to 10am [JTB 140] .

Final exam for the 10:45 class is Mon May 4, 2009, 10:10am to 12:30pm [LCB 219].

Extra Credit: Under the door, 113jwb.

06 May, Ch9 Extra Credit. About 10 problems appear on the ch9 extra credit page.

06 May, Maple Makeup Lab 8:

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

L8.4 , L8.5

06 May, Maple Makeup Lab 9:

Tacoma Narrows L9.1 , L9.2

Extra credit records locked at 6pm on 06 May. Ch9 and maple 8,9 credits apply to the semester dailies total, not just ch9.

Policy on Dailies: The highest 150 dailies will be counted. The lowest 7 of the 157 dailies will be dropped. Any record with less than 70 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. Extra credit exercises can correct these zeros.

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

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