

# Applied Differential Equations 2250

## Spring Semester 2004

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

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

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

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

Midterm 1 [Feb 11]      Av= , Scores \_\_\_\_\_

Midterm 2 [Mar 10]      Av= , Scores \_\_\_\_\_

Midterm 3 [Apr 9]      Av= , Scores \_\_\_\_\_

Final [4-30 to 5-6]      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, Email: [gustafson@math.utah.edu](mailto:gustafson@math.utah.edu), Office: 113 JWB.

### Maple Labs (18 boxes)

Use a cover sheet on each package.  
Save paper with a small figure size.  
Edit the output. Notes in pencil.

#### Lab 1a [Feb 6]

1.1 , 1.2

#### Lab 1b [Feb 18]

1.3 , 1.4 , 1.5 , 1.6

#### Lab 2a [Mar 24]

2.1 , 2.2 , 2.3 , 2.4

#### Lab 2b [Apr 2]

2.5 , 2.6

#### Lab 3a [Apr 21]

3.1 , 3.2 , 3.3

#### Lab 3b [Apr 26]

3.4 , 3.5 , 3.6

### Chapter 1 (15 boxes)

Page 17, 1.2: 2 , 6 ,  
8 , 10

Page 26, 1.3: 12 , 18

Page 40, 1.4: 2 , 6 ,  
8 , 18 , 22

Page 53, 1.5: 2 , 6 ,  
12 , 34

### Chapter 2 (18 boxes)

Page 84, 2.1: 4 , 16

Page 93, 2.2: 8 , 10

Page 103, 2.3: 10 , 20

Double credit for 2.4, 2.5, 2.6

Page 113, 2.4: 4

Page 124, 2.5: 4

Page 135, 2.6: 4

Page 114, 2.4: 14

Page 124, 2.5: 14

Page 135, 2.6: 14

**Chapter 3** (20 boxes)Page 149, 3.1: 8 , 16 ,  
28 Page 160, 3.2: 8 , 18 ,  
26 Page 169, 3.3: 10 , 18 Page 182, 3.4: 22 , 26 ,  
36 , 40 Page 195, 3.5: 20 , 28 ,  
32 Page 213, 3.6: 4 , 18 ,  
32 , 36 , 52 **Chapter 4** (13 boxes)Page 237, 4.1: 16 , 22 ,  
32 Page 245, 4.2: 4 , 16 ,  
28 Page 254, 4.3: 18 , 24 Page 261, 4.4: 6 , 20 Page 270, 4.5: 10 , 22 ,  
26 **Chapter 5** (23 boxes)Page 284, 5.1: 34 , 36 ,  
38 , 40 ,  
44 , 48 Page 297, 5.2: 14 , 22 Page 310, 5.3: 4 , 8 14 , 28 Page 320, 5.4: 4 , 18 Page 336, 5.5: 4 , 10 ,  
24 , 34 48 , 52 Page 348, 5.6: 4 , 12 ,  
18 **Chapter 6** (6 boxes)Page 362, 6.1: 12 , 20 ,  
32 Page 371, 6.2: 10 , 22 ,  
28 **Chapter 7** (8 boxes)Page 393, 7.1: 10 , 18 Page 408, 7.2: 8 , 16 Page 421, 7.3: 6 , 18 Page 422, 7.3: 28 Page 429, 7.4: Ex 2 problem **Chapter 10** (11 boxes)Page 581, 10.1: 14 , 18 ,  
28 Page 593, 10.2: 6 , 12 ,  
22 Page 603, 10.3: 8 , 18 ,  
22 , 38 Page 614, 10.4: 18 

**Policy on Dailies.** The highest 124 boxes will be counted. The lowest 8 of the 132 boxes 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, so that it counts as two midterms. Graded by G.B.Gustafson.