MATH 244 Sections 23 – 24 – 25

Lectures: MTh 8:40 - 10:00 PM at SEC 205
Lecturer: Dr. Las Goonetilleke, lcg71@scarletmail.rutgers.edu
Office Hours: Mondays and Fridays 10:15 – 11:15 AM at Hill 101

Recitations:

23	Tuesdays 8:40 AM - 10:00 AM	ARC-207
24	Tuesdays 10:20 AM - 11:40 AM	ARC-107
25	Tuesdays 12:00 PM - 1:20 PM	ARC-207

Recitations Instructor: Mr. Fei Qi, cl.volkov@rutgers.edu
Office Hours: Monday 5PM - 6PM at Hill 624. You may also make appointments for Tuesday 5-6PM, Wednesday 2-3PM, Thursday 5-6PM, Friday 3-6PM, or weekends.

General information: We will be studying ordinary differential equations and systems of first order ordinary differential equations.

Math 251 is a perquisite for this course. Required linear algebra techniques will be taught.

Text: Elementary Differential Equations, Boyce & DiPrima, 10th edition. (9th edition is OK too)

Homework: Homework is collected and graded. See table on the other page. In general HW from the previous week's lectures will be due during Tuesday's recitation.

Quizzes: Quizzes will be given during lectures on Thursdays. Several attendance quizzes will be given during recitations too. There will be no make-up quizzes: the 2 lowest will be dropped.

Maple Labs: There will be 6 Maple labs. The first one (lab 0) will serve as a warm-up and will not be counted toward the course grades. Maple labs can be downloaded from the math department website: http://www.math.rutgers.edu/courses/244/maple244_s13.html

Maple labs are due 2 weeks after they are assigned. Late submissions will not be accepted.

Exams: There will be 2 mid-terms and a final. The final is cumulative. There will be no make-up exams except for verified medical reasons.

Grading: Exam-1: 20%, Exam-2: 20%, Final: 40%, Homework: 5%, Quizzes: 10%, Maple Labs: 5%. To pass the course a student must pass the final exam with at least a 50% score.

The cutoffs for grades will be A – 90% or above, B+ - 85% or above, B - 80% or above, C+ - 75% or above, C - 70% or above, D - 60% or above, and F – below 60%. There will be no curves.

Other: No calculators allowed in exams or quizzes. You are expected to remember the standard integration techniques from calculus 1 and 2. (These will be reviewed during the first recitation).

Schedule of Lectures

	Date	Lesson		Date	Lesson
1	1/22/2015	1.1, 1.2, Assign: Maple Lab 0		3/17 3/20	No classes – Spring Break
2	1/26/2015	1.3, 2.1	16	3/23/2015	4.2, 4.3
3	1/29/2015	2.2, 2.3	17	3/26/2015	7.2, 7.3
4	2/2/2015	2.4, 2.5	18	3/30/2015	7.1, 7.4
5	2/5/2015	2.5, 2.6, Assign: Maple Lab 1	19	4/2/2015	7.5, Assign: Maple Lab 4
6	2/9/2015	2.7, 8.1	20	4/6/2015	7.5, 7.6
7	2/12/2015	8.2, 8.3	21	4/9/2015	EXAM 2 (lessons 10 to 19)
8	2/16/2015	3.1, 3.2	22	4/13/2015	7.8
9	2/19/2015	3.3, 3.4, Assign: Maple Lab 2	23	4/16/2015	9.1, 9.2, 9.3
10	2/23/2015	5.4 through page 274	24	4/20/2015	9.4, 9.5, Assign: Maple Lab 5
11	2/26/2015	EXAM 1 (up to lesson 9)	25	4/23/2015	9.5, 5.1
12	3/2/2015	3.5	26	4/27/2015	5.1, 5.2
13	3/5/2015	3.6	27	4/30/2015	5.2, 5.3
14	3/9/2015	3.7, 3.8, Assign: Maple Lab 3	28	5/4/2015	Review
15	3/12/2015	3.8, 4.1		5/12/2015	Final Exam (8 PM - 11 PM)

Homework Assignments
(For both 9th and 10th editions. Note the differences in section 3.5 problem numbers)

Section	Problems	Section	Problems
1.1	1, 2, 5	3.7	1, 4, 5, 8, 15, 19
1.2	1, 2, 7, 9, 12, 13	3.8	2, 5, 7, 11
1.3	1, 3, 4, 6, 8, 13, 18	4.1	1, 6, 7, 13, 17, 20, 21
2.1	2, 8, 13, 22	4.2	2, 10, 11, 19, 23, 28
2.2	3, 8, 9, 17	4.3	3, 9, 12, 17
2.3	7, 8, 14, 16, ~~20, 23, 27, 29, 30~~	7.1	4, 5, 6, 7
2.4	1, 7, 15, 18	7.2	2, 3, 4, 8, 11, 22, 26
2.5	2, 7, 9, 22	7.3	2, 3, 7, 11, 14, 16, 22
2.6	2, 3, 5, 8, 9, 14, ~~19, 26~~	7.4	4, 6
2.7	2	7.5	3, 12, 16, 17, 19
8.1	8, 16, 19	7.6	3, 8, 9, 13
8.2	2, 7	7.8	3, 8
8.3	2, 7	9.1	1, 2, 13, 18
3.1	3, 6, 10, 16, 18, 21	9.2	2, 8
3.2	2, 6, 7, 11, 13, 24,29,33	9.3	4, 13, 16
3.3	1, 4, 7, 16, 17, 22, 24	9.4	5, 8
5.4	2, 9, 15, 35	9.5	1, 6, 14
3.4	2, 7, 11, 14, 15, 19, 23	5.1	1, 6, 8, 9, 14, 18
3.5	4,10,17,20,25 **(6,12,19,22,27 for 10e)**	5.2	2, 6, 12, 15, 18
3.6	1, 7, 15	5.3	1, 3, 7, 8, 12, 16