

INFORMATION AND POLICY

Math 314 – Elementary Differential Equations

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Office Hours: Tuesday and Thursday 1-1:50 pm in my office or by appointment.

Text Book: Boyce and Diprima: *Elementary Differential Equations*, 8th Edition, by John Wiley & Sons, Inc. ISBN: 047143339.

Grading Policy: There will be one final exam (200 points), two midterm exams (100 points each) and 6 quizzes (20 points each). Your highest 5 grades from the 6 quizzes will count for the total grade. The formula of the total point is

$$20 \text{ (attendance)} + 100 \text{ (5 Quizzes)} + 200 \text{ (2 Midterms)} + 200 \text{ (Final)} = \text{Total (520 points)}$$

The course grade will be given on a curve based on the total point.

Exams: The exams (except the final) will be given in this classroom.

First Exam: Tuesday, February 24

Second Exam: Tuesday, April 14

Final Exam: Tuesday, May 12

Make-up exams will be allowed only in extreme situations (death in the family, serious illness) with written documents, and I must be notified before the scheduled exam dates. Thus the fact that you have bought a ticket home before the exam is not an excuse to take the exam earlier or later. A time conflict with another exam is not the reason for a make-up exam either. A make-up exam might cover more materials and might be more difficult than the regular exam. There are no make-up quizzes.

Homework: The homework will be assigned in each lecture. Even though the homework problems will not be collected, they should be studied carefully. Doing homework is the most important component of the course work. The exams and quizzes will be closely related to the homework.

Classes: The students are expected to attend the lectures on time and remain until the end of the lectures. Attendance check will be given from time to time, and absence will reduce your course grade. If you have any concerns about this course, you should discuss it with me as early as possible. Don't wait until the end of the semester when getting an unwanted grade and paying the tuition is usually the only solution.

FREE tutoring: Bradley Hall, Room 140. Monday - Friday. 973-353-5608. <http://lc.newark.rutgers.edu>. Check the web site for schedules.

Course Outline(tentative):

Chapters, Sections	Topics
Chapter 2, §2.1-8	First order ODE
Chapter 3, §3.1-7	Second order linear equations
Chapter 4, §4.1-4	Higher order linear equations
Chapter 5, §5.1-8	Series Solutions
Chapter 6, §6.1-4	Laplace Transform

Homework Assignment

Sections	Homework
§1.1	1,3,7,9,15,21
§1.2	1,2,3
§1.3	1,2,7,8,15,17,19
§2.1	1,13,15,16,17
§2.2	1,3,7,8,9,10
§2.3	1,4,7,9
§2.4	1,3,5,7,8,13
§2.6	1,2,5,7,13,15,19,25
§2.7	1,11
§2.9	1,4,8,9
§3.1	1,3,9,11,17
§3.2	1,5,7,11,13
§3.4	7,13,17,19
§3.5	1,7,11,13
§3.6	1,3,7,13,19,21
§3.7	1,5,13
§4.1	3,5,11
§4.2	11,12,14,17
§4.3	4,13,15
§5.1	19,20,21,23
§5.2	1,2,5,6
§5.4	1,3,5,6
§5.5	1,3,4,7
§5.6	1,3
§5.7	1,2
§6.1	1,5,6
§6.2	1,2,3,11,13,15
§6.3	1,3,7,8,13,15,16
§6.4	1,7