

MATH 214
Elementary Differential Equations
SUMMER 2009, Session C

Instructor : David Singman

Office and Hours: Science & Tech I, Room 235, MTWTh 11:45am-1:00pm for the duration of the course from July 6-August 6.

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Text: *Differential Equations-An Introduction to Modern Methods & Applications* by James Brannan and William Boyce, John Wiley & Sons, Inc, 2007.

Prerequisites: Before taking Math 214, you must have successfully completed Calc I, II, and III with a grade of C or better. In addition you should have recently reviewed the main formulas and techniques taught in those courses so that you are ready to apply them on the first day of the course.

Web site: A web site has been set up for the course. You can find it by going to <http://math.gmu.edu> (which is the web site for the math department) and following the link “*Course Information*”, then “*Course Home Pages*”. There you will find a link to the web site for this course. You are responsible for checking it every day for announcements relevant to the course. You will find posted practice homework problems (to be worked on each day), the syllabus, class tests, complete solution sets of tests, etc.

Course: This is a course in ordinary differential equations. We will cover first order differential equations, systems of two first order equations, second order linear equations, modeling and applications, Laplace transforms.

Practice Problems: I will post Practice Problems from the text for you to work each day. These should be done by you the moment a section is covered. They are not to be turned in, however, your success in the course will very much depend on your having regularly worked these practice problems each day. I will go over some of them in class, but please ask me about the ones you have trouble doing.

Grading: Three class exams (20% each) given on Wednesday **July 15**; Thursday **July 23**; Monday **August 3**.
Cumulative Final Exam (40%) on **Thursday August 6** from 10:30 am-1:15pm.

Makeup exams: No makeup exams will be given. If a test is missed for a well-documented reason, the final exam will count in place of it.

Scale: A^- , A , A^+ 90 - 100; B^- , B , B^+ 80 - 89; C , C^+ 70 - 79; D 60 - 69; F 0 - 59.