Instructor: David Singman

Office: Exploratory Hall, Room 4203

E-mail and Telephone: dsingman@gmu.edu, (703)-993-1476. You can leave a voice-mail message if I am unavailable, but it's much better to send me an e-mail as I check my e-mail seven days a week.

Web site: A web site has been set up for the course. You are responsible for checking the homepage of the site for updates each day. On it I will post announcements relevant to the course such as information on practice problems from the test, lecture outlines, class notes, quizzes, and other things. You can find it by going to http://math.gmu.edu where you will see a link to “course home pages” on the left center of the page. After you click on it you will find a link to our course webpage.


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. In particular you should know very well the various techniques of integration done in a one-variable calculus course. This includes basic integrals, method of substitution, integration by parts, method of partial fractions, trig integrals, etc. You cannot learn differential equations if you are not already expert at integration.

Course: We will cover (with some omissions) the following from the text.

- Chapter 1: Introduction
- Chapter 2: First Order Differential Equations
- Chapter 3: Systems of Two First Order Equations
- Chapter 4: Second Order Linear Equations
- Chapter 5 The Laplace Transform
- Chapter 7: Nonlinear Differential Equations and Stability

For a detailed listing of the sections covered, see the list of Practice Problems, a link to which you will find on the course homepage.
Lecture Outlines: Lecture outlines will be provided in advance of the lectures, so you should work through them prior to the lecture. In class we will go over the lecture outlines. In the course of doing that, we will fill in the gaps and do additional problems from the text.

Practice Problems: These are practice problems from the text for you to work each day. These 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 about the ones you have trouble doing.

Quizzes: These will be short quizzes given during the recitations.

Makeups: Makeups will not be given for quizzes or exams, so if you want to get credit for them you need to attend class.

Midterm test: One midterm test will be held in class on Thursday June 30.

Final exam: The final exam will be held on Thursday, July 28, 4:30pm-7:15pm

Grading: The grade will consist of quizzes, one midterm exam, and a final exam as follows:

- quizzes: 40%
- midterm exam: 25%
- final exam: 35%


University Honor Code: It is expected that each student will conduct him or herself within the guidelines of the Honor Code. Among other things, this means that any kind of cheating on exams or tests is strictly forbidden, and will be dealt with very severely.