
MTH 504 – Advanced Engineering Math 1

Fall 2009

TR 2:45-4:00 – Oelman Hall 103

Professor: Weifu Fang
Office: Math & Microbiology Building 120
Phone: 775-2785
Office Hours: TR 4:00–5:00 or by appointment
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Textbook:

“*Advanced Engineering Mathematics*” by Kreyszig, 9th edition, John Wiley & Sons, 2006

Course Description:

This is the first of a two-quarter sequence of courses designed for students in engineering. In this sequence, we will cover some essential mathematical topics that are important to applications. Topics include ordinary differential equations and matrix linear algebra in this quarter, and multivariate/vector calculus and partial differential equations in the next quarter. We will approach these topics in various perspectives, from modeling, analytical, to numerical, and will emphasize on conceptual understanding and problem solving skills.

Homework:

Homework assignments from the textbook will be posted on WebCT and collected weekly. Some problems will be graded and counted towards your grade. No late homework will be accepted. Whenever you have questions on the problems, you should either bring your questions to class for discussion or come to see me in my office for help. If necessary, we will spend some class time to discuss certain homework problems.

Computer Programming:

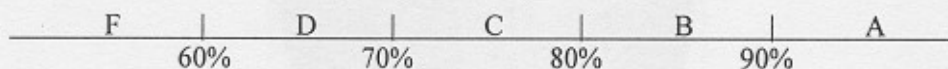
We will need some computer programming for a few topics and for some homework assignments. You can use any programs you are familiar with, but I will use either MATLAB or EXCEL (or both) for demonstration. Programming is not required for exams.

Exams:

Test 1 – Thursday, October 1 (*tentative*)
Test 2 – Thursday, October 29 (*tentative*)
Final – 3:15-5:15pm, Thursday, November 19 (*definite*)

Grading:

Each test is worth 75 points, the Final 100 points, and all graded homework assignments account for 100 points. The following scale will be used to determine your course grade, based on the total of 350 possible points:



Attendance and Make-up Policies:

You should understand the importance of attending class, completing homework assignments, and participating in discussions. You are expected to attend all classes. No make-up will be given for missed tests or quizzes. In the event that you have a legitimate excuse, you must inform me as soon as you possibly can, and provide documentation for my review on whether a make-up would be allowed.
