

MATH 4233 - Intermediate Differential Equations- Fall 2010

INSTRUCTOR: Dr. Roger Zierau
OFFICE: MS502A
OFFICE HOURS: MWF 1:30-2:20 and by appointment
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TEXT: *Elementary Differential Equations and Boundary Value Problems*, ninth edition, by Boyce and DiPrima is the textbook. (The eighth edition will work fine, but you will need to keep up with some small differences.)

COURSE CONTENT: This is a second course on differential equations. We will cover most of Chapters 7-11, and part of Chapter 5. Students will be expected to learn and use some MAPLE (a computer algebra program).

HOMEWORK an EXAMS: There are two types of homework. Routine exercises from the book will be assigned as we cover the material, but will not be collected. Students should keep a notebook with all homework solutions. There will also be six homework 'projects', which will be more in depth. These are to be done completely on your own (no collaboration whatsoever) and will be handed in and graded. There will be a midterm and a final exam. The midterm exam will cover Chapters 7 and 9 and will occur during the last week of September.

GRADES: The midterm is 100 points and the final is 100 points. The homework (projects) will be 100 points, giving a total of 300 possible points. Letter grades will be assigned as follows:

at least 270 points: guaranteed A
240-269 points: at least a B
195-239 points: at least a C
180-194 points: at least a D
0-179 points: probable F.

ATTACHMENT: See the attached university syllabus attachment for additional information, policies and dates.

FIRST HOMEWORK: See the attached sheet for the first several homework exercises.