

MATH 2233 - Differential Equations - Fall 2014

ROOM and TIME: CLB 202, MWF 10:30-11:20

INSTRUCTOR: Dr. Roger Zierau

OFFICE: MSCS 502A

OFFICE HOURS: WF 1:30-2:20 p.m. (in MSCS 502A), M 1:30-2:20 p.m. (in the MLSC) and by appointment

PHONE: 744-6296

E-MAIL: zierau@math.okstate.edu

TEXTBOOK: *Elementary Differential Equations and Boundary Value Problems*, tenth edition, by Boyce and DiPrima is the required textbook.

COURSE CONTENT: This is a first course on differential equations. We will learn basic techniques for solving differential equations. We will cover most of chapters 1-6 in the textbook. These chapters will be covered in the following order: 1,2,3,4,6,5.

GENERAL INFORMATION: Students are expected to attend all classes and work all of the assigned homework problems. About a week before each exam the instructor will post a practice exam on D2L.

HOMEWORK: Homework exercises from the book will be assigned for each section we cover. Students are expected to do all of the problems. The homework is an extremely important part of the course; carefully working through the homework problems is crucial to learning the material. Homework will not be collected or graded.

GRADES and EXAMS: There will be three in-class exams (100 points each); they will occur after we finish Chapters 2, 4 and 6. There will also be a final exam (100 points), giving a total of 450 possible points. The final exam is scheduled for Wednesday, December 10 from 10:00 to 11:50 a.m. Several optional extra credit problems (totalling approximately 20 points) will be assigned. Letter grades will be assigned as follows:

- 360-400 points (90%): guaranteed A
- 320-359 points (80%): at least a B
- 260-319 points (65%): at least a C
- 240-259 points (60%): at least a D
- 0-239 points (below 60%): probable F.

SYLLABUS ATTACHMENT: For various information such as drop dates, university policies on student disabilities and academic dishonesty, library hours, etc. see the following two pages.

D2L: D2L will be used to post homework assignments, practice exams, an occasional solution to homework problem, etc. Students should be sure to set their email on D2L to an address that they regularly use; certain announcements and reminders will be emailed to students using this address.

Here is the first homework assignment (due Monday August 25):

Section 1.1: # 2,7,9, 15-20

Section 1.2:# 1(a), 2(a),3,5,6,8,9.