2014

MATH 230-02 Differential Equations

Hem Joshi

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(9th ed. is Ok but be careful with homework problems!), by Boyce and DiPrima

Place and Time:  Musketeer Mezzanine 1,  MWF 10:00 am - 10:50 am 
Instructor:  Hem Joshi (joshi@xavier.edu)  
Website:  www.cs.xu.edu/~joshi/  
Office:  Hinkle 106 (Tel: 745 4277)  
Office hours:  MWF 1:30-3:00 pm (open door policy, give me a call or write an email)

Course Goal: Understand physical meaning and be able to solve a variety of differential equations. Learn different analytic techniques such as separation of variables, integrating factors, undetermined coefficients, and variation of parameters. This course will cover majority for the chapters 1-4 and 6-7. We will discuss some application to real life problems from Physics, Chemistry, and Biology.

Your final grade will consist:  
Home works 100 points  
Quizzes 70 points  
3 Group Projects 30 points  
In Class Examinations (three) 300 points  
Comprehensive Final Examination 200 points

Grading scale: 90-100 (A) 80-89 (B) 70-79 (C) 60-69 (D) < 60 (F)

Home Work policy: Homework assignments must be neat, legible, stapled and your name printed on it. Be aware that I will not accept any loose pages or sloppily prepared work. During the semester homework will be assigned at the end of each section except the last week of the class. Homework will be collected regularly and selected problems will be graded. You will get 40% points for completion (more than 70% of assigned problems done) and 60% points for correctness. Late homework will be accepted under special situations (e.g. illness, family emergency, etc and if complete). At the end of the semester, I will drop your two lowest scores awarded to completed homework in computing your final grade. Please note that assignments not turned in or considerably incomplete (less than 70% of work done) may not be dropped.

Quizzes: There will be 4-5 short quizzes during the semester and there will be no make-up quiz but I will drop a lowest quiz grades while calculating your final grades.

Group Projects: During the semester I will assign three short group projects. These projects may require use of mathematical software.

In Class Examinations: Tentative dates are February 7th, March 19th, and April 16th.
Make-up examination policy: There will be make-up examination for a valid excuse (by my definition), and only if arrangements are made in advance.

Final examination: Comprehensive final exam on May 7th, 2014 (10:00-11:50 am).

Attendance Policy: I will pass around an attendance sheet occasionally. If you miss a class please get notes from a fellow student and see me if you need any help.

Cell phones and Texting: Electronic gadgets such as cell phones and music listening devices are to be turned off during the class.

Note: If you have more than two exams in a day please let me know in advance so that I can give you a make-up test. If you have below 40% in any test or homework points, your final grade may be lowered by one full letter grade. Any kind of cheating will be dealt with according to Xavier University policy and may result in a zero grade.

Have a Great Semester