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Syllabus

MA 214 Syllabus Fall 2011 Section 6

Instructor: Jay Hineman

Office Number/Hours/Contact: POT 702/By Appoi and after 2 p.m.)/ jay (dot) hineman (at) uky (dot) e

Time & Place: 10-10:50 a.m. MWF DH B57

Required Text: *A First Course in Differential Equat*. Logan. We will cover chapters 1-7 with the omissio Available through University of Kentucky library at:

<http://www.springerlink.com/content/p78848/>

Break Down of Grade and Exam Information (da

Exam 1 (9/16/2011)	20%	Cha
Exam 2 (10/7/2011)	20%	Cha
Exam 3 (10/28/2011)	20%	Cha
Exam 4 (12/2/2011)	20%	Cha
Final (12/13/2011)	20%	Cun
Homework and Quizzes	20%	

Scale: The standard letter grades are given to the r "A" \hat{O} 90%; 90% > "B" \hat{O} 80%; 80% > "C" \hat{O} 70

The full grade percentage is computed as:

Grade = :2 \hat{A} Exam1% + :2 \hat{A} Exam2% + :2 \hat{A} Exa where the Final may be taken to replace the lowest

Homework: Homework due at 3:00 p.m. on a given Some feedback will be given on homework, but it is concepts from lecture, the text, and the problems o

Instructor: Jorge Rivera-Noriega.

Office and Phone number: 767 Patterson Tower, (859) 2574802 (only in weekdays from 8:30 AM to 2:30 PM)

E-mail: jri238@uky.edu

Class Schedule: Mon, Wed, Fri, 10:00-10:50 hrs, at TPC 212

Office Hours: Mon, Wed, Fri 1:00 to 2:30 PM.

Course Information: Differential Equations (DE) have been used to describe certain natural phenomena such as falling objects, flow of electricity, vibration of objects, etc. In this course we plan to describe some basic techniques to solve DE, and review some of their basic applications.

1. The textbook used for this course is:

Boyce, W. E. and DiPrima R. C., *Elementary differential equations and boundary value problems*, 8th. edition, John Wiley & Sons, New York, 2005.

We will cover selected parts of the following chapters:

- Chapter 1: Introduction
- Chapter 2: First Order Differential Equations
- Chapter 3: Second Order Linear Equations
- Chapter 4: Higher Order Linear Equations
- Chapter 6: The Laplace Transform

2. Course Evaluation. The final grade consists of a combination of Exams points and Quizzes points, where the highest grade will be assigned when achieving 600 points.

Exams are worth up to 500 points. Quizzes are worth up to 105 points. After adding up these points we divide it by 600, and we get a “percentage grade”. (Of course if one gets more than 600 points then one has a 1.0 of percentage.)

The details to obtain Exams points and Quizzes points are as follows:

- (a) Exams: up to 500 points

There will be three Monthly Exams during class time, worth 100 points each exam:

Exam 1, on Friday September 23rd;

Exam 2, on Friday October 21st;

Exam 3, on Friday November 18th;

A Final Exam is given on December 13 at 1:00 PM, including all the material covered during the semester. This Final Exam is worth 200 points.

(b) Quizzes: up to 105 points

Suggested homework exercises will be assigned in class, and discussed during subsequent periods. However, these assignments will not be collected. Instead, a quiz based on the list of exercises will be given each Friday, except on the weeks there is a Monthly Exam. Each Quiz is worth 15 points.

At the end of the semester the points of the 7 highest Quiz Scores will be added.

The standard letter grade assigned is as follows:

- a percentage of 0.9 to 1.0 = A
- a percentage of 0.8 to 0.89 = B
- a percentage of 0.7 to 0.79 = C
- a percentage of 0.6 to 0.69 = D
- a percentage of 0 to 0.59 = E

However, there may be a slight curve after the percentages are figured.

Some important dates to remember:

- September 5th – Labor Day: No class
- November 23rd to November 26th – Thanksgiving Break
- December 9th — Last day of classes

For a more complete list of important dates in the Academic Calendar check the website

<http://www.uky.edu/Registrar/bulletinCurrent/cal.pdf>