Course Syllabus for MA214-003  Fall 2017

Calculus IV Differential Equations
MWF 12:00-12:50 CB212 3 hrs. credit

Prerequisite: MA 213

Instructor: Dr. Lawrence Harris 939 POT Office Hours: MWF 4-4:50


This course studies techniques of solution for the kinds of ordinary differential equations that are the most common and the least difficult to solve. Our discussion will include the more advanced topics of Laplace transform methods, series solution and systems of differential equations. The relation between mathematical theory and physical behavior will be illustrated with many problems including population dynamics, motion under friction, electric circuits and damped vibration. Chapters 1-4 and 6 will be covered. If there is time, we will discuss the first part of Chapter 5.

The course grade will be computed on the basis of 500 points earned as follows:

- 2 in-class exams 100 pts each
- Weekly quizzes 100 pts
- Web homework 50 pts
- 1 final exam 150 pts

The lowest A is 450, lowest B is 400, lowest C is 350 and lowest D is 300.

The in-class exams will be given in class on Friday, September 29 and November 3. The final exam is comprehensive and will be held on Wednesday, December 13, from 10:30 a.m.-12:30 p.m. in our classroom. Web homework will be assigned throughout the semester and is due typically on Friday. Most of the assignments will be made through Webassign at http://www.webassign.net.

Additional material covered in class may appear on exams or quizzes and in homework assignments. Students may use a graphing calculator on exams but may not use any device with the ability to do symbolic computations such as the TI-89, TI-92, HP48 or a laptop, netbook, tablet, etc., computer. Moreover, any device capable of electronic communication such as a cell phone or computer must be turned off and put away out of sight during all examinations. During regular class periods cell phones must be turned off and laptops and tablets may not be used.

Attendance in class is expected. A student will receive an additional 20 pts extra credit added to their final score at the end of the semester if the number of lectures for which the student is not present during the entire class period is no greater than three. (There will be 10 points extra credit if the number of unexcused absences is 4 and 5 points extra credit if the number of unexcused absences is 5.) A student with 15 or more unexcused absences will automatically receive an E in the course.
You are required to present FULL documentation that any makeups you request are required by University rules. This documentation needs to be submitted to me within 10 days of your absence and the earlier the better. Please notify me as soon as possible if you have an excused absence for an exam. If I have authorized you to take a makeup exam during dead week, it is your responsibility to contact me the week before dead week and schedule a time during dead week for you to take the exam. A Tier 2 or Tier 3 document provided by UHS is appropriate verification for an excused absence due to illness. Excused absences for religious holidays require written notification one week in advance.

The course webpage is at http://www.ms.uky.edu/~larry/ma214