Instructor: Shahriar Afkhami  
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Office: 450 McBryde Hall  

Office Hours: Monday to Friday, 2:30-3:30 pm, and by appointment, if necessary  

Class Meeting Time and Location: Monday to Friday, 9:30-10:45 am, 321 McBryde Hall  


Prerequisites: Math 1114 and 1206  

Course Objectives: To understand basic classifications for differential equations. To learn how to describe simple physical problems by ordinary differential equations, and to learn techniques to solve the resulting differential equations. We will cover: first order linear and nonlinear differential equations, second and higher order linear differential equations, first order linear systems, numerical methods for system of linear differential equations, and the basics of nonlinear systems.  

Emporium Quizzes: There are emporium-based quizzes scheduled regularly. Quizzes start and end date/time will be announced in the class. Tentative deadlines are listed on the course webpage. Quizzes must be proctored. Check Details Regarding Proctored Testing at the Math Emporium on how to take a proctored exam. Check Math 2214 course homepage for practice quizzes.  

Homework: Homework assignments and due dates will be posted daily on the course webpage and also will be announced in the class. A tentative list of assignments is posted on the course webpage. Homework assignments are randomly selected for grading and only selected problems are graded. At most, two late homework assignments will be accepted for full credit provided that they are submitted no later than a day after they were collected. Review Math 2214 Assignment Sheet for suggested assignments. While discussing assignments with other students and getting help outside of class is encouraged, every student certifies that what is written accurately represents the student’s own understanding of the problem in the student’s own words.  

In-class Test: There will be two in-class closed book and notebook exams on Monday, July 14, and, July 28, during regular class hours. Covered sections for in-class tests will be announced in the class.  

Final exam: There will be a final exam for all sections of 2214 on Saturday, August 9, 10:30am-12:30pm, in our usual class room. The exam will be closed book and notes.  

Grading: Homework assignments, quizzes, and exams are graded based on the work shown, not just on final answers. Grades are calculated as follows:  
1- Emporium Quizzes 15%  
2- Two In-class Tests 20% each  
3- Homework 20%  
4- Final Exam 25%  

No accommodation will be made for a missed quiz or homework. Your lowest emporium quiz and your lowest homework grade will be dropped. No make-up tests will be given. The percentage score of your final exam will replace your lowest test if it is to your benefit. 90% guarantees an A-, 80% guarantees a B-, 70% guarantees a C-, and 60% guarantees a D-.  

Honor Code: The Virginia Tech honor system applies to all graded work in this course. Students are responsible to understand and to adhere to the Honor Code.  

Miscellaneous: Meeting by an appointment will be made if office hours do not work for you. Students with special needs are encouraged to meet with me in my office.