Math 2214:
Index 84523
TR 8:00-9:15, Surge 104A

Instructor: Josh Clemons
Office: McB 449
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Office Hours: TR 11:00-1:00pm
http://www.math.vt.edu/courses/math2214/
http://www.math.vt.edu/people/jclemons/class_homepages/2214_84523.html


Prerequisites: MATH 1206 and either MATH 1114 or MATH 2114

Course Content: First order ordinary differential equations, second order linear equations, linear systems of ordinary differential equations, numerical methods (most of Chapters 1-4 and 6). The material in the text will be supplemented with the use of Matlab to facilitate numerical and graphical solutions to complement the analytical techniques.

Differential equations are at the core of the mathematical description of natural phenomena and are one of the principal applications of the calculus. The course introduces important classes of differential equations and techniques for solving them. Familiarity with these techniques is basic for studying any discipline of science or engineering.

Grade:
Grades are determined as follows:
- Three midterms: 20% each
- Final exam: 25%
- In class quizzes: 15% (see below for specifics)
- A 90-100, B 80-89, C 70-79, D 60-69, F 0-59
- Plusses and Minuses are at the discretion of the instructor

Midterms:
- Midterm schedule:
  - Exam 1 Sept. 17
  - Exam 2 Oct. 15
  - Exam 3 Nov. 12

Final Exam Schedule: The final will be a Common Time Exam (CTE) scheduled for 4:25pm-6:25pm, December 11, 2015.

It is the firmly held position of Virginia Tech that our final exam schedule, as announced in the timetable, takes precedence over all discretionary activities. For this purpose, a decision by a full time Virginia Tech student to take a course under a dual enrollment arrangement with another institution is considered discretionary.
**In Class Quizzes:** It is my intent to give an in class quiz every Thursday. Additionally, I will give several unannounced quizzes. These quizzes are all open note. You are NOT allowed to use your book, the internet, or any material that is not handwritten by your own hand. Studying in groups is strongly encouraged; however, using work that is not your own on quizzes will severely hamper your ability to perform well on tests. Generally, quiz problems will come directly from suggested problems, previous CTEs, and class notes. However, some quiz problems may be new. Please study accordingly.

**Late Work and Missed Exams:** Late attempts on quizzes will not be given. However, your lowest two quiz grades will be dropped. These drops are to facilitate emergencies. Make-up exams will not be given without documentation from a dean or other university official. However, your lowest exam grade will be replaced by your grade on the Final Exam.

**Classroom Courtesy:** Make an effort to be on time to class. If you must leave early, please let me know before class. Please do not have laptops open (flat tablet use is fine).

**Honor Code:** [http://www.honorsystem.vt.edu/](http://www.honorsystem.vt.edu/)

**IMPORTANT:** Please check your schedule which comes out after the last add date. Students who are not registered cannot receive a grade. Students who are registered for credit and do not turn in any work will receive NG grades (which count as Fs), even if they did not intend to be registered for credit. If you are registered for a different section of this course, you are expected to attend that section.

**Accomodations:** If you need adaptations or accommodations because of a disability (learning disability, attention deficit disorder, psychological, physical, etc.), if you have emergency medical information to share with me, or if you need special arrangements in case the building must be evacuated, please make an appointment with me as soon as possible. My office location and hours are as above.