Instructor: Fangxu “Frank” Jing

Contact: jing at math.gatech.edu (preferred), Skiles 017, 404-894-9426

Office Hours: TTh 2:00 - 3:00 PM or by appointment

Course website: T-Square and www.math.gatech.edu/~fjing8


Topics:

- Introduction ........................................... ~ 2 classes
- First order differential equations ............... ~ 4 classes
- Systems of two first order differential equations .... ~ 6 classes
- Second order differential equations ............... ~ 6 classes
- Laplace transform ..................................... ~ 3 classes
- Systems of differential equations ................. ~ 4 classes
- Nonlinear differential equations .................... ~ 2 classes

Homework: All homework will be assigned at the end of lectures and then the problems with final solution (no middle steps) will be put on website. Homework will NOT be collected (hence NOT required), though some problems in the quizzes or exams will be chosen from assigned homework (with possible tweaks). You may discuss the homework problems with other students, but you are encouraged to complete the homework independently. Some of the problems will be discussed in the recitation sessions.

Quiz: The quizzes will be given at the END of lectures. Each quiz will have 2 to 3 problems, and require 20 to 25 minutes in total. Quizzes are open-book and open-notes. They may not be announced in advance.

Exam: The final will be on 12/15 from 11:30 AM - 2:20 PM. The two midterms will be 80 minutes, given in lecture time (tentative dates: 9/29 and 11/10). All exams are close-book and close-notes. You will be allowed to bring an A4 "cheat sheet" with anything you want written on it (both sides). Exam solutions should be written in ink and final answers should be circled with no correction inside.

Grading policy: Homework (0%), 5 quizzes with equal strengths, best 4 will be counted (25% in total), 2 midterms (20% each), final (35%).

The letter grade will be based on the total score in a curved fashion with the following exception: total score 90/100 or above will always be an A; total score 60/100 or above will always be at least a C.
Any request of grading review should be submitted within 1 week of quiz/exam. Writing in pencil would forfeit your right to argue for credit after the quiz/exam is given back to you. There will be no make-up for a missed quiz. No make-up will be given for a missed exam, except under provable impossibility to attend the exam (will be verified by Dean of Students).

**Academic honesty:** Please review the Georgia Tech Honor Code:
http://www.honor.gatech.edu/plugins/content/index.php?id=9

**Laptops:** Laptops may not be used in lecture.

**Calculators:** Scientific calculators will be allowed throughout the semester. Graphic calculators are NOT allowed unless authorized by TA or instructor.

**Participation:** Attendance in class is mandatory. Please don’t arrive late to classes.

**Learning disabilities:** Any students with learning disabilities should contact the instructor by email during the first week of classes.