

EXAM 2 Information

When: Wednesday, November 4, 2015, during Recitation.

Where: In your regular Recitation room.

What: Exam 2 will cover the following material:

- 4.1 - Higher Order Linear Equations (Definitions);
- 4.2 - Second and Higher Order Linear ODEs (Existence and Uniqueness, Linear Independence, Reduction of Order);
- 4.3 - Linear Homogeneous Equations with Constant Coefficients; Cauchy-Euler Equations;
- 4.5 - Nonhomogeneous Equations; Method of Undetermined Coefficients;
- 4.7 - Variation of Parameters;
- 5.1 - Laplace Transform: Definition;
- 5.2 - Properties of the Laplace Transform;
- 5.3 - The Inverse Laplace Transform;
- 5.4 - Solving ODEs with the Laplace Transform;
- 5.5 - Laplace Transform of Unit Step Functions and Periodic Functions;
- 5.6 - ODEs with Discontinuous Forcing Functions.

Practice Materials: Homework 6 – 15;
Quiz 5 – 9;
Practice Exam 2.

Important things to be aware of:

- **Bring a Picture ID!** You will be asked to place your Picture ID on your desk before the test, and your TA will be going around the room checking your name against your ID and the class roster.
- **Don't be late!** If you are late for the exam, there will be no extra time given to you in order to complete the exam. You will have 50 minutes to complete the test.
- **Be aware of the Make-Up Policy for this class:** There will be no opportunities for make-up tests after the fact. **In the event of an absence due to travel representing Georgia Tech, such as an intercollegiate sports competition, you must notify the professor at least two weeks in advance to arrange an early test or other alternative.** Otherwise, such absences will be treated as personal.
- **Be aware of the Regrade Policy for this class:** The mid-term exams will be returned to you by your TA during recitation. There will then be a 20-30 minute period during recitation when the class will be able to discuss the solutions of the exam with the TA. If, after viewing the solutions and the grading scheme, you believe a problem or more should be regraded, you must leave your exam with the TA, along with the numbers of the problems you want regraded. Your TA will return your exam and request to the professor. **The moment you leave the recitation room with your exam, you can no longer ask for regrading of any part of that exam.**
- **No calculators, notes, cheat sheets etc. allowed during exams!** During exams, the only things you should have on your desk are writing instruments and your Picture ID. Scratch paper will be provided by your TA.