

Math 2700 Syllabus

1. COURSE INFORMATION

Dr. Jason Cantarella	Boyd 304
Boyd 439	1:25-2:15 MWF
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Office hours: Monday 3-5.	

2. TOPICS COVERED

Classification of Differential Equations (1.3)	Linear ODEs using Integrating Factors (2.1)
Separable Equations (2.2)	Modelling with First Order Equations (2.3)
Existence and Uniqueness of Solutions (2.4)	Autonomous Equations and Dynamics (2.5)
First Exam	
Exact Equations and Integrating Factors (2.6)	Euler's Method (2.7)
Homogenous Equations w/Constant Coefficients (3.1)	Linear Homogenous Equations (3.2)
Linear Independence and the Wronskian (3.3)	Complex Roots of the Characteristic Equation (3.4)
Repeated Roots (3.5)	Method of Undetermined Coefficients (3.6)
Second Exam	
Variation of Parameters (3.7)	Mechanical and Electrical Vibrations (3.8)
Forced Vibrations (3.9)	
Third Exam	
Series solutions near an ordinary point (5.2)	The Laplace Transform (6.1)
Solution of Initial Value Problems (6.2)	Step Functions (6.3)
Differential Equations with Discontinuous Forcing (6.4)	Impulse Functions (6.5)
Final Exam (12-3pm)	
	F 12/8

3. GRADING AND POLICIES

The overall course grade is computed from homework, exam, and final grades by the formula:

- (1) 15% for each regular exam.
- (2) 30% for the final exam.
- (3) 25% for the homework assignments.

Homework is due every week, starting **next** week (T, August 22). Usually, the homework assignments are due at 10pm on Tuesday night, and answers are posted at 10:30 pm the same day.

4. WEBWORK

For this class, we're using a web-based homework system called WebWork. The login link is

http://ada.math.uga.edu/webwork2/Math2700_Fall106/

Your username is your UGA MyID. Your initial password is also your UGA MyID.

WebWork is different from your previous experiences with math homework. Until the assignment is due, **you can try the problems as many times as you like**, and the system will tell you whether or not you have the right answer. This lets you correct your work immediately.

After the assignment's due date, the system will show you the correct answer for each problem when you try it (but your answers won't be scored). The funny thing about WebWork is that **the due dates are absolute**. Since the system shows you the answers immediately after the due time, I can't give extensions on homework. You may complete assignments in advance if you want to.

You are welcome to work together on WebWork problems, but be warned: **the problems are a little different for each student**, so copying other folks' answers won't work.

When you first login to WebWork, you'll see three buttons on the left. Use the "Change Email" button to enter your email address and the "Change Password" button to change your password. Then try "Begin Problem Sets" to see how the system works. You can select a set and print it out in PDF format to work out the problems on paper if you like. Your problems will be the same when you login again to enter the answers. Now complete **PracticeSet** of the problem sets. This set is designed to give you a tutorial on how WebWork works.

5. ACADEMIC HONESTY

The University of Georgia expects every student to live up to the highest standards of academic honesty and ethics. There are severe punishments for cheating, and they are enforced **not** by your friendly neighborhood Math professor, but by large and discourteous people in ill-fitting suits bearing extremely pointy pencils.

6. DISCLAIMER

"The syllabus is a general course plan, but deviations may become necessary over the course of the semester."