

**Math 2700: Elementary Differential Equations--**  
**MWF 11:15-12:05**  
**Spring 2010**

**Instructor: Dr. Jingzhi Tie**

**Office Hours:** MWF 1:15-1:15 PM, Boyd 504, or by  
appointment.

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**Course web Page:**

<http://www.math.uga.edu/~jtie/teaching/spring-10/2700/Syllabus.html>

**Text:** Blanchard, Devaney and Hall, *Differential Equations*, Third Edition.

**Class Time, Place:** MWF 11:15-12:05. Aderhold 116.

**Office Hours:** MWF 1:15-2:15PM in Boyd 504, or by appointment. You are urged to get your questions out of the way by coming to my office hours. It is impossible to understand everything perfectly in class.

**Prerequisites:** Working knowledge of (not just a passing grade on) MATH 2260 or 2210 or 2319H or 2410H. You need at least got a C in one of these courses.

**Syllabus and Objectives of the Course:**

The theory of Differential Equations is the continuation of Calculus. The objective of this course is to study the elementary theory of ordinary differential equations (ODEs) and its application. Although computers are extremely useful for investigating differential equations and their solutions, and many of the problems are best approached with computational assistance, we will keep the levels of computer involvement to minimum. We will cover Chapter 1, 2, 3, 4, 6.

**Homework Assignments and Quizzes:** Weekly homework will be assigned and posted on the course web page <http://www.math.uga.edu/~jtie/teaching/spring-10/2700/2700hw.html>. **You are expected to do the homework on your own everyday.** Past experience shows that students who do not take homework seriously do poorly on the exams and most of them fail.

**Exam Dates:** There will be 3 one-hour term tests before the final exam (closed book and notes). Non-graphic Calculators will be allowed on tests and exams, but I do not think they will be necessary.

[First Test:](#) February 8.

[Second Test:](#) March 15.

[Third Test](#): April 19.

Final Exam: Exam: Fri, May 7, 12:00 - 3:00 pm

**Quiz Schedules:** Here is the schedule of quizzes. The quiz problems will be close to the homework problems.

| Quiz Number                       | Date                |
|-----------------------------------|---------------------|
| <u><a href="#">Quiz one</a></u>   | January 15, Friday  |
| <u><a href="#">Quiz two</a></u>   | January 29, Friday  |
| <u><a href="#">Quiz three</a></u> | February 19, Friday |
| <u><a href="#">Quiz four</a></u>  | March 1, Monday     |
| <u><a href="#">Quiz five</a></u>  | Narch 24, Wednesday |
| <u><a href="#">Quiz six</a></u>   | April 2, Friday     |

**Make-up Exams:** There will be no make-up exams.

**Class Attendance and Participation** are very important in this class. I will randomly take attendance and reserve the right to withdraw you from the class if you miss too many classes and/or too much work-- this will save you from frustrations later on in the course, as well as save other students from being held back because of your missing classes/work. In order to protect class from distraction, coming-later-for and leaving-early-from classes are discouraged. Tell me in advance if you **must** come late or leave early.

**Collaboration and Academic Honesty:** You are strongly encouraged to form study groups to work on your homework and discuss the material for the course. However, you must write up your own homework. Above all, **UGA Academic Honesty Policy** applies — See the web site [http://www.uga.edu/honesty/ahpd/culture\\_honesty.htm](http://www.uga.edu/honesty/ahpd/culture_honesty.htm). Here are some quotes from the UGA Academic Honesty Policy: "Every student has an obligation to be informed concerning the terms of this policy. Accordingly, lack of knowledge of the provisions of this policy is not an acceptable defense to a charge of violating this policy." "Any member of the University Community with direct personal knowledge of the facts related to an alleged violation of Section 5 of this policy has a responsibility to the entire University Community to file a charge."

**Grading Policy:** Hour-Exams 45%; Qizzes 15% and Final Exam 40%. You need to shows steps for solutions of problems. No credit will be given to a straight answer to a problem without explanation, unless it is a yes-or-no type problem. You are expected to write your problem solutions in such a way that are understandable by your fellow classmates.

## Spring Semester 2010\*

Based on 50 minutes classes (MWF), 75 minutes classes (TTH), 15 weeks of classes, 75 days of classes

|   |              |                 |
|---|--------------|-----------------|
| Furlough Day**                            | Jan. 4       | Monday          |
| Orientation/Advisement                    | Jan. 5       | Tuesday         |
| Registration                              | Jan. 6       | Wednesday       |
| Classes Begin                             | Jan. 7       | Thursday        |
| Holiday: Martin Luther King Jr. Day       | Jan. 18      | Monday          |
| Midterm                                   | March 2      | Tuesday         |
| Last Day of Classes Prior to Spring Break | March 5      | Friday          |
| Furlough Day**                            | March 8      | Monday          |
| Spring Break                              | March 8 – 12 | Monday – Friday |
| Classes Resume                            | March 15     | Monday          |
| Withdrawal Deadline                       | March 23     | Tuesday         |
| Monday Class Schedule in Effect*          | April 29     | Thursday        |
| Classes End                               | April 29     | Thursday        |
| Furlough Day                              | April 30     | Friday          |
| Reading Day                               | April 30     | Friday          |
| Final Exams                               | May 3 – 7    | Monday - Friday |
| Commencement                              | May 8        | Saturday        |
| Grades Due                                | May 10       | Monday, 7 PM    |

**\*Note: For the Spring Semester 2010, the University will operate a Monday class schedule on Thursday, April 29.** This is done to equalize the class minutes between MWF and TTH classes and to provide an equal number of class meetings for courses which may meet only once per week.

**\*\*Furlough Day:** In implementation of the Board of Regents furlough policy, the University of Georgia has designated January 4, March 8, and April 30 as three of the six furlough days to be taken by UGA employees unless they are otherwise designated.