

MATH 385-X1 DIFFERENTIAL EQUATIONS

FALL, 2004

Instructor	Office	Office Hours	Phone	E-mail and Homepage
Dr. Young-Ran Lee	227 B Illini Hall	Mon/Wed/Fri 9:30-10:30 am	265-6756	yrlee4@uiuc.edu http://www.math.uiuc.edu/yrlee4

Classes: Mon/Wed/Fri 12:00-12:50 pm in 156 Henry Administration Bldg.

Text: *Differential equations and boundary value problems: Computing and Modeling*, 3rd edition by C. H. Edwards and D.E. Penney.

We will cover most of Chapters 1, 2, 3 and 9.

This section of Math 385 will have a computer component, using the free software package Iode. Several times during the semester the class will meet at the EWS lab in Engineering Hall L426, and about one third of the homework assignments will have a computer component. You do not need any prior computing experience for this. If you are a **non-engineering student** then you must email me during the first week, giving your Net ID, so that I can create a free account for you.

Material to be Covered: The following sections will be covered in this course:

Chapter	Section
1	1,2,3,4,5,6 (ALL)
2	2,4
3	1,2,3,4,5,6,8
9	1,2,3,4,5,6,7 (ALL)

Prerequisite: Math 242, or Math 243, or Math 245, or equivalent

Tutoring room Go and check it later at
<http://www.math.uiuc.edu/UndergraduateProgram/tutoring.html>

Description: Intended for engineering students and others who require a working knowledge of differential equations; included are techniques and applications of ordinary differential equations and an introduction to partial differential equations.

1. Grading Policy:

Your grade will consist of homework, quizzes, two in-class tests and the final exam. **Unreadable or disorganized work will not be graded. All work must be shown - a bare answer never suffices.**

Item	Weight
Homework	20%
Quizzes	5%
Tests	40%
Final Exam	35%

2. Homework:

Homework will be assigned every Wednesday due on the following Wednesday. It is desirable to submit your homework in the class. However, if you miss a class but want to hand in your homework, you must bring your homework to my office by 4:00 pm. Late homework will be penalized. Clarity of exposition will always be a factor in the grading. You can drop your two lowest homework scores. IODE projects will be included in homework assignment.

3. Quizzes:

During the semester, you will have about five of short (15 minutes or so) quizzes in class. The dates and topics will be announced one week before. You may NOT use books, notes, calculators or computers during the quizzes.

4. Tests and Final Exam:

There will be **two major in-class tests** (each counting 20% of your total grade) and a final exam (35% of your total grade) given during the term. You may NOT use books, notes, calculators or computers during the tests or exam. Tests are given as follows:

Test	Date	Time
Test 1	September 24th, Friday	in class
Test 2	November 1st, Monday	in class
Final exam	December 15th, Wednesday	7:00-10:00 pm

5. Test and Exam Make-Up Policy:

Policy in this course is not to give make-up tests. In the event that you **have to** miss one of these tests because of an emergency, you must contact the instructor immediately and you may, **at the instructor's discretion and with written documentation of the cause of your absence**, count the final exam 20% more to make up the missing grade. However, this is not recommended since the final exam covers on the entire course and as a result a bit more difficult than in-class tests. Vacation and leisure plans are never a valid excuse. No make-up for the final exam.

6. Office Hours in 227 B Illini Hall:

All students are encouraged to visit the instructor during office hours which are **Monday, Wednesday and Friday 9:30-10:30 am**. It is available to make an appointment for more help. E-mail yrlee4@uiuc.edu or call 265-6756. Also, there will be tutoring rooms for Math 385.

7. Work outside class:

The university expects you to work at least 2 hours outside class for each hour in class. That means at least 6 hours per week on Math 385, outside class. Use this time to read the textbook and your notes, to do homework and to prepare for quizzes and tests (e.g. make study summary notes).