

MATH 3263 SECTION 1, SPRING 2013, SYLLABUS

FACULTY: WEIPING LI
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1. BASIC COURSE INFORMATION

Prerequisites: Math 2163 (Calculus III)

Textbook and Content: *Differential Equations and Linear Algebra* (Third Edition), by Stephen W. Goode and Scott A. Annin, Publisher: Pearson Education, Inc.

This course will analyze basic ideas and terminology of differential equations, and understand the systems of linear equations and basic matrix properties on Gaussian elimination, LU factorization and determinants. The linear independence and linear combination are important to formulate bases and dimension as well as descriptions of various vector spaces.

The linear transformations and linear differential equations of order n are covered in this course. Combining with linear algebra techniques, the solving procedure for systems of differential equations is given. Tentative to cover from Chapter 1 to Chapter 7. Hopefully part of Chapter 8.

Class Time: MWF 11:30am –12:20pm. Start on Monday January 7, 2013.

Class Room: ES 302.

Office Hours: MWF 12:30pm–1:20pm. or **BY APPOINTMENT**. Highly recommended to take full and consistent advantage on my office hours. Feel free to call/email/fax me at any time. Please do not hesitate to seek any appropriate out-of-class help from me in your efforts to master the subjects.

University information:

University Academic Calendar Spring 2013:

<http://academicaffairs.okstate.edu/images/syl-spring13.pdf>

University Academic Affair Office:

<http://academicaffairs.okstate.edu/academic-affairs-units>

2. EXAMS AND GRADE

Your grade will be determined by the scores on the 3 fifty-minute tests, each of which is worth 100pts. Homework is worth 100pts and the final exams is worth 200pts.

A as 510-600; **B** as 450-509; **C** as 390-449; **D** as 330-389; **F** as 0-329.

The cutoff might be lower slightly at the end of the term, but this is not guaranteed. If you cannot take an hour test because of medical reason or other emergency, please notify me **IN ADVANCE** or hand in your **written proof** for excuse. Make-up exams will be scheduled **ONLY** in those cases with **proofs**.

Homework: Homework will be assigned at the beginning of lecture periods or in D2L. Typically quizzes will be given on Fridays. Although the homework problems will not be graded, it is extremely important that the student work them; the quizzes will consist of problems similar to those assigned. Students who are taking the course for graduate credit will be expected to complete an additional assignment, one that will count as a quiz score.

MLRC: MLRC is located on the 4th floor of the classroom building just north of the Student Union, tutoring services are provided there for this course and similar ones. Check in for tutoring is in Room CLB 420.

<http://www.math.okstate.edu/mlsc>

For questions about the MLSC, call (405) 744-5688,

or email Elena Pavelescu at elena.pavelescu@okstate.edu

First Exam: Friday February 8, 2013;

Second Exam: Friday March 15, 2013;

Third Exam: Friday April 19, 2013;

Final Exam: Wednesday May 1, 2013, from 10:00am – 11:50am at ES302

2.1. **Attendant Policy.** Attendance is not a part of your grade in the course, but it is **VERY HIGHLY RECOMMENDED**. You are responsible for all material covered in class and all assignments. Experience has shown a definite correlation between poor class attendance and low grades.

2.2. **Main Office.** Main office of Math Department 401 Ms, phone number: 405-744-5688. Fax number: 405-744-8275.

2.3. **Homework.** Please **DO THE HOMEWORK**. The purpose of homework is to provide a way for you to practice and get feedback on what you are doing. I suggest that you first read each section and try the assigned problems on your own. Then discuss your solutions with others in the class. Finally re-read your solutions and make corrections as needed. *Practice makes perfect.* **Remember to use the tutors to help you learn. Not to do the homework for you.**

2.4. General Comments. To succeed in college, each student must take responsibility for his or her own learning. Thinking of attending college as your job. Just as you arrive at work on time and finish an assigned work on time, so should you attend class every day and finish all your daily homework.

- (i) Please be advised that **Doing your homework on time is absolutely essential** for you to get better grade. Quiz and exam problems will be largely chosen from your homework problems.
- (ii) On average you should expect to spend two hours studying outside of class for every hour in class. Some student will require more. It is best to do this on a regular basis after *every class* if possible. The learning of mathematics is cumulative, and keeping up with the work is necessary in order to follow our class discussion. Our mind absorbs new ideas best in smaller, regular doses.
- (iii) Your study time **SHOULD** start with the book and your class notes with pencil in hand to work out the calculations. The homework problems are not identical to the book examples and can require considerable thoughts. Give each problem a serious effort before seeking help.
- (iv) Ask for help whenever you feel you need it from your instructor, from your classmates and any other sources.

2.5. Academic Dishonesty/Misconduct. OSU has explicit rules governing academic dishonesty and academic misconduct. The policies are detailed in the document *Students Rights and Responsibilities Governing Student Behavior*.

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