Math 242 - Linear Algebra

Lehigh University - Fall 2008

Instructor - Garth Isaak

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office: Christmas-Saucon room 331

Office hours: to be announced

Class meets Monday, Wednesday, Friday 11:10 - 12:00 in Christmas-Saucon 400 and an additional problem session hour at a time to be scheduled.

Text: Applied Linear Algebra by Peter Olver and Chehrzad Shakiban

Content: The core material covered will chapters most of chapters 1,2,3,5,8. Some material from these chapters will be omitted and some other sections will be covered. Specifically, we will plan to cover the following sections 1:1-9; 2:1-5; 3:1-5; 4:1,3; 5:1-3,5,6; 7:1-3; 8:2-6; 10:6. This is a lot of material and in order to cover it, portions of some sections will also be omitted. These will be announced in class.

Much of the content is also covered in Math 205. Here we will focus more on the theoretical foundations. You will be expected to learn to give proofs to problems. Despite the overlap in content with Math 205, Math 205 is not a prerequisite for Math 242.

Disabilities and Academic Integrity statements: Please see attached sheet.

Homework: There will be regular homework assignments. Most of the problems will be written down and turned in. Homeworks will be graded on correctness as well as style. You may be asked to present solutions to homeworks during the problem sessions.

You are encouraged to discuss the ideas for the solutions of homeworks. However, the final written product must be your own. It is sometimes hard to find the line between copying and discussing. One basic rule: you can (and should) talk about homeworks and the ideas behind what you need to do. However, you should never share written solutions. It is easier than you think to notice writing that is essentially the same in homework solutions. Please see the academic integrity statement for more details.

Exams: There will be three in class exams and a comprehensive final exam. A significant portion of the exam questions will be from the homework problems or similar to homework problems. The in class exams are tentatively scheduled for Monday September 22, Friday October 24 and Monday November 24. The final exam will be scheduled by the registrar.

Grading: Each of the 3 exams will will be 15% of your grade, homeworks will be 25% and the final exam will be 30%. In addition, up to 7 points may be added or subtracted from your scores for 'participation'. If you miss class or problem sessions routinely, clearly don't care to be in class when you are there, make little effort on difficult homework problems etc points may be deducted. If you are clearly trying even if you are struggling with the material, ask good questions in class and problem sessions, provide interesting solutions to homework problems etc points may be added.

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Accommodations for Students with Disabilities: If you have a disability for which you are or may be requesting accommodations, please contact both your instructor and the Office of Academic Support Services, University Center 212 (610-758-4152) as early as possible in the semester. You must have documentation from the Academic Support Services office before accommodations can be granted.

Academic Integrity:

Students are expected to follow academic integrity policies of the university. Please the web link http://www.lehigh.edu/%7Eindost/conduct/aiforstudents.html for information and details. Basically this means that for exams you work on your own with no extra resources unless instructed otherwise.

The following is taken from the university handbook portion on academic integrity:

Lehigh University is a community that has expectations of its student members. These expectations and a list of non-inclusive examples of behavior that might breach these expectations are below.

Lehigh University expects that all students will act in a manner that reflects personal and intellectual honesty.

Proscribed Conduct

A. Cheating. This includes but is not limited to:

1. The use of any unauthorized assistance in taking quizzes, tests, or examinations.

i. The possession at any quiz or examination of any articles which are prohibited will be regarded as evidence of responsibility.

2. The dependence upon the aid of sources beyond those authorized by the instructor in writing papers, preparing reports or homework, solving problems, or carrying out other assignments.

3. The acquisition, without permission, of tests or other academic material belonging to a member of the university faculty or staff.

4. Any attempt to falsify an assigned grade in an examination, quiz, report, program, grade book, or any other record or document.

5. The creation and/or submission of falsified data in any experiment, research paper, laboratory assignment, or other assignment.

6. Collusion occurs when students willfully give or receive unauthorized or unacknowledged assistance. Both parties to the collusion are considered responsible.

B. Plagiarism. This includes but is not limited to:

1. The direct use or paraphrase, of the work, themes or ideas, of another person without full and clear acknowledgement.

2. Submitting the work of another as your own in any assignment (including papers, tests, labs, homework, computer assignments, or any other work that is evaluated by the instructor).