INSTRUCTOR Ron Buckmire ~ Fowler 313 ~ x2536 ~ ron@oxy.edu ~ MadProfessah

WEBSITE The official syllabus for this course is at http://faculty.oxy.edu/ron/math/214/07/

OFFICE HOURS I am almost always in my office (Fowler 313) until at least 5pm. My official office hours for Spring 2007 are MWF 3:30-5:00pm.
I am readily accessible by e-mail at ron@oxy.edu and by phone at 323-259-2536 and AIM at ProfBuckmire or MadProfessah (add me to your buddylist!) If you need to see me at a time not specified here, then contact me and make an appointment and I’ll be happy to meet with you then. If you don’t interact with me on a 1-to-1 basis then you really aren’t getting your (tuition) money’s worth!

CLASSROOM We will meet in Fowler 110, MWF from 2:30pm-3:25pm.


GOALS OF THE CLASS As always, a central goal of any class I teach is to develop and encourage the communication of mathematical ideas. Specifically, by the end of this class I want you to be able to

- Clearly articulate concepts in linear algebra in both oral and written forms.
- Perform routine calculations related to fundamental concepts in linear algebra.
- Develop a deep and flexible understanding of fundamental concepts in linear algebra.
- Develop an appreciation of selected applications of concepts in linear algebra.

TOPIC OF THE CLASS The central topic of the class is for you to understand and manipulate matrices. In particular, one of the most central concepts is learning how to find the complete solution to linear systems of equations $A\vec{x} = \vec{b}$, where $A$ is a known coefficient matrix, $\vec{x}$ is a vector of unknowns and $\vec{b}$ is a known vector.
The material in the class will include most of the topics from the first five chapters of the text, with the possible addition of material from Chapters 6 and 7. This is the first time I have used this text but it comes strongly recommended by other faculty.

FORMAT OF THE CLASS We will be making infrequent use of the MATLAB computer algebra system. I expect a lot of participation in class and will facilitate this through the use of daily class formats (worksheets), group work, in-class computer exercises, abbreviated lectures and online communication.

PROJECT There will be a group term project which will require a 10-minute oral presentation on some topic (application) of your choice in Linear Algebra. More information about the Term Project will be distributed later in the semester.
HOMEWORK  Homework should be done in pencil. Homework questions will be assigned daily. The assignment will be on the website and on the daily class worksheet, when in doubt go by the website. Homework will be due at the beginning of the next class. You are strongly encouraged to work on homework together. Whatever you hand in must represent your own understanding of the material. Copying homework is cheating and will be dealt with accordingly.

QUIZZES  There will be quizzes given every week. These quizzes will almost always be take-home quizzes given out on class on one day to be handed in in class in the next class. They will consist of interesting former exam problems which you work on by yourself and will be a way in which you can assure yourself you are keeping up with the course. The quiz, bonus quizzes (when available) and hints to the quiz will be posted on the web. There may also be in-class quizzes as well as group quizzes.

TESTS  There will be two (2) exams in this course. The mid-terms are currently scheduled for Friday March 2 and Friday April 20. These dates are subject to change until 1 week before the scheduled date. You may not be excused from a test without communicating in person to me an acceptable reason at least 1 week before the scheduled test date.

FINAL EXAM  The final exam is scheduled for Monday May 14, 8:30am-11:30am.

GRADING  Your course grade will be composed of the following:
- Homework 20%
- Two (2) Tests 20 % (10 % each)
- Quizzes 20 %
- Final Exam 20 %
- Term Project 20 %

To receive full credit on a problem, your solution or explanation must be easy to read. Be tidy. Don’t skip steps. Emulate the way I present examples in lecture. Write as if you were explaining the solution to a fellow student who is trying to learn the material.

POLICIES  This a (non-exhaustive) list of course policies
- Make-up tests will not be given except for compelling reasons which have been communicated to me in writing well in advance (i.e. at least 7 days) of the test date.
- If you are late to a test, you will only be allowed the time remaining in which to complete your test.
- Late homework will not be accepted under any condition since the solutions are made available on the same day that they are collected in class.
- Bonus points may be capped at some point

ACADEMIC HONESTY  I expect the highest level of academic honesty from my students. If you have any questions about academic honesty you should read the sections on “Spirit of Honor” (front cover) and “Academic Policies” (pp 111-112) found in the Student Handbook. Any instances of plagiarism or cheating will be dealt with strictly and in accordance with procedures outlined in the Handbook.

OTHER NOTES  We will not have class on Monday February 19 (President’s Day), March 12-16 (Spring Break). I will be out of town on Friday April 27. I will let you know at least a week ahead of time if there may be other days that we will not have class. In addition, you should know that we will have our last class on Wednesday May 2.