Applied Mathematics

INSTRUCTOR Ron Buckmire $\sim$ Fowler 313 $\sim$ x2536 $\sim$ `ron@oxy.edu` $\sim$ **MadProfessah**

OFFICE HOURS I am almost always in my office (Fowler 313) until at least 5pm. My official office hours for Spring 2009 are **MTWRF 10:30-11:30am and R 3-4:30p**.

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.

TEXTBOOK *Applied Mathematics*, (3rd edition) by J. David Logan. Published by John Wiley & Sons, 2006.

WEBSITE `http://faculty.oxy.edu/ron/math/395/`

FORMAT OF THE CLASS This is not a regular class! The format of the class will be an informal seminar which meets once a week for 90 minutes. The students will play an integral part in the presentation and understanding of the material. Together we will explore and learn the material in the text. Attendance of all class sessions will be mandatory. Each student will have to present solutions to worked out problems to the entire class at least once and probably several times.

STRUCTURE OF THE CLASS I believe strongly in collaborative learning. This will be an integral part of the class. This time, I "the teacher" will also be an equal collaborator in the group. I envision the class as alternating between weeks in which we work together to go over material in the textbook, attempt to do the exercises associated with the concept at hand and then the following week we will have presentations of solutions of the exercises.

GOALS OF THE CLASS The central goal of the class is to introduce you to some important concepts and techniques found in applied mathematics. In addition, other goals are

- to expose students to important techniques widely used in applied mathematics;
- to present a different mode of classroom instruction and student involvement where students see themselves as equal participants in the education process;
- to provide students with an opportunity to apply mathematics to actual real world problems in the manner applied mathematicians would do this;

and to have fun doing applied math!

GRADES Your course grade will be composed of the following:

- Attendance and Participation **50%**
- Written Work **25%**
- Verbal Work **25%**

OTHER NOTES We will not have class on Tuesday March 10 (Spring Break).