Math 4452: Math Modeling Assignment 5 Due: Apr 9 2002

For this assignment, I am giving you some suggested problems below. However, if there are other problems which interest you more, feel free to tackle them instead of the ones I suggest.

The problems you do hand in should involve probability density functions, either continuous or discrete. This will be the last assignment for the course, so feel free to take problems from Chapters 8 or 9 if you wish.

If you do choose your own problems, I would like you to do at least two different problems, and for each give a short discussion as to why you choose that particular problem (I am just interested, you won't be graded on this part).

Feel free to talk to me about the problems you would like to do if you have any questions.

(50) 1. **Comparison of Discrete and Continuous Probability** Problem 7.4.13 from the text.

(50) 2. **Markov Chain Application** Problem 8.4.3 from the text.