

Math 484: Final Project

Due: 14 February, 27 March, 4 May, 2012 (see below)

Final Project, Mathematical and Computational Modeling.

For this project you will develop and present a model that describes a natural or industrial process, i.e. the model should be relevant to the title of this course. You are free to choose any project that is to your liking, but be aware that if I don't like what you propose, you will be asked to come up with another or an improved idea. For this project, required deliverables are a proposal, a progress report and the finished project report. All documents should be typed and presented as a polished final work. The grading of this final project will be based on the clarity of your presentation and the thoroughness with which you address the problem that you are trying to model.

- 1. Proposal. Due: 14 February.** Submit to me a one-page paper that outlines what you intend to do for your final project. Give a brief background of the process that you will model and outline the work you intend to do. Stating specific goals is suggested – this will give you a framework to follow as you develop your model. This will be graded on your writing and I will allow you to resubmit and make corrections.
Basis: 50 points.
- 2. Progress Report. Due: 27 March.** Submit to me a one-page paper that outlines what you have done to date on your project and also, outline what you intend to do to finish the project. **Basis: 50 points.**
- 3. Project Report. Due: 4 May, 5:00pm.** Submit your final project report. Guidelines for the final report are the same as those that were given for homework #4: The report should clearly describe the problem, give background on the problem, and present results and conclusions. Refer to homework #4 for specific guidelines. It is strongly encouraged that you include graphs/images in your report. It would also be a good idea to include equations. Cite references at the end of your report so that if I would like to read further on what you have done, I will be able to.
Basis: 100 points.