Instructions for Class Project
M375T: Multivariable Analysis (Unique number: 56820)
March 25, 2013

The projects are explorations into “multivariable analysis” beyond the material we cover in class. Your exploration will involve reading and asking questions, then doing thought (and computational) experiments to answer them. You will hand in a written account of these explorations in the form of a paper.

Several ideas for the class project will be posted on the class website at

http://www.ma.utexas.edu/~dafr/M375T/index.html

You are not limited to my suggestions, however. I encourage you to come up with your own ideas. The projects are an opportunity for you to explore. I am very flexible about the topic, which is why I put ‘multivariable analysis’ in quotes above. The intent is that you ask questions and explore, though of course I don’t expect original research. Your writeup may include questions you do not answer and issues for further exploration. Please use the library and the web to get ideas and to do research. I strongly encourage you to come see me as you work on the project. If office hours are not convenient, we can arrange other times.

You may do the projects in groups of 1 or 2. If you work with a partner, then you each need to hand in a separate paper, and the papers should cover different parts of your explorations, though inevitably there will be some overlap. What you hand in should be a neat, well-written exposition of the topic. You must include proper referencing for all source materials.

The projects are due at the beginning of class on April 25. Of course, you may hand them in earlier. There are no extensions. We will permute the papers that day among your classmates and you will write comments on the paper you receive. Those comments are due at the beginning of class on April 30 and will go back to the author. The final paper is due at the beginning of class on May 2 along with the student comments you received.

The numerical grade for the project will be based on a variety of factors, including the mathematical correctness, clarity of presentation and exposition, originality, degree of exploration, use of the library and/or web (if appropriate), use of computer (if appropriate), etc. There is a sample grade sheet on the web.