MATH 713
Advanced Applied Matrix Theory
Summer 1999

The above is a misnomer, but continues to be the accepted rubric. In alternate years I teach a course on some aspect of linear algebra -- two years ago I did the finite-dimensional spectral theorem for complex inner product spaces. This year I intend to do some applications of linear algebra to questions of combinatorics: eigenvalue applications to graph and design theory, and I'll invest a fair amount of time on algebraic coding theory. I'll probably spend the first week or so making sure that everyone is up to speed in the linear algebra. Since the vast majority of our work will be over finite fields, I'll need to spend some time making sure that everyone understands these important fields.

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