Instructor: Julie Dickerson
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Office hours (tentative): MW 11-12.

Prerequisites: EE 322, EE 424, and knowledge of linear algebra, or consent of the instructor.


Reference Books:

Grading (tentative):
50% Homeworks and projects,
30% Midterm Examinations (2),
20% Final Examination.

Course Outline:
- Review of signals and systems, frequency response, z transforms, sampling
- Introduction to filter banks and multirate signal processing, (Chap 11)
- Random signals and matrix algebra for signal description,
- Optimal and adaptive filtering,
- Introduction to beamforming and adaptive arrays.
- Power spectrum estimation (parametric and nonparametric),