Wavelets and Applications
Math 5750 and 6880, Section 2, 3 Credits
Tuesday and Thursday, 9:10-10:30, JWB 333
Spring 2009

This syllabus is subject to change.

Professor: Jeff Blanchard, LCB 337, jeff@math.utah.edu, 801-585-1644

Office Hours: Tuesday and Thursday: 10:30-11:30 am and by appointment.

Prerequisites: The main prerequisites are motivation, some mathematical sophistication, MATH 2210 (multivariate calculus), and MATH 2250 or 2270 (linear algebra). You should have taken a proof based course in the past such as 3210-3220 Foundations of Analysis I and II. If you have taken 5210 and/or 5610 that will be very helpful, but I will cover background material that is missing from the audience background. It will also be very helpful if you are familiar with MATLAB, although you can learn Matlab quickly during the course. While MATLAB will be the program of choice, any language will be accepted.


The Course: We will cover the material of chapters 2-3, and portions of chapters 4,7,9,10,11,12,13 and possibly some material not in the text. This may change based on input from the class.

Course Webpage: http://www.math.utah.edu/~jeff/MATH5750_Spring2009.html

Homework: There will regular homework assignments due no sooner than one week after the assignment. Late homework will generally not be accepted.

Project: There will be a course project with details provided in class.

Exams: There will be one take home exam instead of a final. It will count as two homework assignments.

Course Grade: Homework 70%, Project 20%, Participation 10%

Attendance: Absences permitted by the university attendance policy must be coordinated prior to the class period in order to make up the missed homework or exams. This coordination should be done in person.

Students with Disabilities: Students with disabilities should make reasonable prior coordination with the Center for Disability Services, 162 Olpin Union building, 581-5020 (V/TDD). CDS will work with you and the instructor to make arrangements for accommodations.