INFORMATION SHEET

Instructor: Thomas Liu
Center for Functional Magnetic Resonance Imaging (fMRI), Room 1001
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Teaching Assistant: Chunshu Wei; chw138@eng.ucsd.edu; Office hours TBD

Lectures: Mondays/Wednesdays 11 a.m. to 12:20 p.m., Powell-Focht Bioengineering Hall, Room 161

Office Hours: Mondays/Wednesdays 12:20 pm to 1:20 p.m., Powell-Focht Bioengineering Hall, Room 161

Prerequisites: Graduate Standing or Consent of Instructor.

Required Texts: Principles of Magnetic Resonance Imaging, Dwight G. Nishimura
(students can order through Lulu.com)(1 copy available on reserve at the main library)

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Course Web Site: http://cfmriweb.ucsd.edu/ttliu/BE280A_14.html
(mirror site: http://fmriserver.ucsd.edu/ttliu/BE280A_14.html)

Course e-mail list: Course e-mails will be sent through StudentLink to registered students.

Class Participation: We will be using the http://www.polleverywhere.com system to assess learning. More details will be provided in class.

Course Description: Fundamentals of Fourier transform and linear systems theory including convolution, sampling, noise, filtering, image reconstruction, and visualization with an emphasis on applications to biomedical imaging. Modalities include: X-rays, CT, and MRI.

Grading: Class Participation 15%; Homeworks 20%; Quizzes/Midterm 30%; Final Project/Exam 35%