

INFORMATION SHEET

- Instructor: Thomas Liu, Department of Radiology
Center for Functional Magnetic Resonance Imaging (fMRI), Room 1008
(858) 822-0542 , ttliu@ucsd.edu
- Lectures: Tuesdays/Thursday 8 a.m. to 9:20 a.m., Sequoyah 147
- Office Hours: Tuesdays/Thursdays 9:30 a.m. to 10:30 a.m. or by appointment.
Center for fMRI, Room 1008.
- Prerequisites: Consent of Instructor.
- Text: *Fundamentals of Medical Imaging*, Paul Suetens, Cambridge University Press 2002.
- Course Web Site: http://cfmri.ucsd.edu/ttliu/BE280A_04.html
(mirror site: http://fmrserver.ucsd.edu/ttliu/BE280A_04.html)
Lecture notes will be posted on the web by 5 p.m. the day before the 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. Examples from optical imaging, CT, MRI, ultrasound, nuclear, PET, and radiography.
- Grading: 20% Homework, Quizzes, and Class Participation, 40% Midterm Exam, 40% Final Project