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

Course Web Site: http://cfmri.ucsd.edu/ttliu/BE280A_04.html
(mirror site: http://fmriserver.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