

INFORMATION SHEET

- Instructor: Thomas Liu, Department of Radiology
Center for Functional Magnetic Resonance Imaging (fMRI), Room 1001
(858) 822-0542 , tliu@ucsd.edu
- Teaching Assistant: Omer Tal; otal@ucsd.edu; (Office hours: TBD)
- Lectures: Tuesdays/Thursdays 9:30 a.m. to 10:50 a.m., Powell-Focht
Bioengineering Hall, Room 161
- Office Hours: Mondays 4 to 5 pm; Wednesdays 12 pm to 1 pm or by appointment.
Center for fMRI Conference Room.
- Prerequisites: Graduate Standing or Consent of Instructor.
- Required Texts: Medical Imaging Signals and Systems, Jerry L. Prince and Johnathan M.
Links, Prentice Hall 2006. Errata available at
<http://iacl.ece.jhu.edu/~prince/mibook/mierrata-v1.03.pdf>

Principles of Magnetic Resonance Imaging, Dwight G. Nishimura (we
will order copies of this from the author)
- Course Web Site: http://cfmriweb.ucsd.edu/tliu/BE280A_10.html
(mirror site: http://fmriserver.ucsd.edu/tliu/BE280A_10.html)
- Course e-mail list: Course e-mails will be sent through StudentLink to registered students.
- 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 CT, MRI, EEG, and MEG, with a focus on functional
brain connectivity.
- Grading: 25% Homework/Quizzes/Class Participation, 35% Midterm/Project, 40%
Final Project/Exam