

INFORMATION SHEET

- Instructor: Thomas Liu
Center for Functional Magnetic Resonance Imaging (fMRI), Room 1001
(858) 822-0542 , tliu@ucsd.edu
- 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)
- Supplementary Text: 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>
(1 copy available on reserve at the main library)
- Course Web Site: http://cfmriweb.ucsd.edu/tliu/BE280A_14.html
(mirror site: http://fmrserver.ucsd.edu/tliu/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%