INFORMATION SHEET

Instructor: Thomas Liu
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Teaching Assistant: Cherilyn Go; ctgo@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 Text: 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 2014. Errata available at
http://iacl.ece.jhu.edu/~prince/mibook/mierrata-v1.03.pdf
(1 copy of the older 2005 version is available on reserve at the main library)

Course Web Site: http://cfmriweb.ucsd.edu/ttliu/BE280A_15.html
(mirror site: http://fmriserver.ucsd.edu/ttliu/BE280A_15.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. Polls are at
PollEv.com/be280a

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%