INFORMATION SHEET

Instructors:	Thomas Liu Center for Functional Magnetic Resonance Imaging (fMRI), Room 1001 (858) 822-0542 , ttliu@ucsd.edu Tzyy-Ping Jung Swartz Center for Computational Neuroscience; SDSC Room B198E (858) 822-7555; tpjung@ucsd.edu Scott Makeig Swartz Center for Computational Neuroscience; SDSC Room B178E (858) 822-7539; smakeig@ucsd.edu
Teaching Assistant:	Amran Assadi, aasadi@ucsd.edu
Lectures:	Mondays/Wednesdays 11 a.m. to 12:20 p.m., Powell-Focht Bioengineering Hall, Room 161
Office Hours:	Listed at the course website.
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 S&E 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 S&E library)
Course Web Site:	http://cfmriweb.ucsd.edu/ttliu/BE280A_12.html (mirror site: http://fmriserver.ucsd.edu/ttliu/BE280A_12.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, time-frequency analysis, blind source separation, and visualization with an emphasis on applications to biomedical imaging. Examples from MRI and EEG, with a focus on functional brain connectivity and integration of information from different modalities.
Grading:	Class Participation 15%; Homeworks 20%; Quizzes/Midterm 30%; Final Project/Exam 35%