

<u>Date</u>	<u>Lect #</u>	<u>Topic</u>	<u>Lecturer</u>	<u>HW</u>
W 1/13/16	1	Welcome, Intro to BCI and	Litt	HW #0 - Matlab, LaTeX, and the IEEG Portal
Friday 1/15/16	1.5	Intro to MATLAB and ieeg.org, LaTeX	Hoameng Ung	

<i>M 1/18/16</i>	-	MLK Day, no class		
W 1/20/16	2	Intro to Neuro Signals: EEG and neuro time series	Litt	HW 1: Process neuro signals
F 1/22/16		Recitation		
M 1/25/16	3	Modeling and Talking to Neurons I: Basics of recording and stimulation	Litt	
<i>*W 1/27/16</i>	4	Talking to Neurons II:	Litt	HW #2 Modeling neurosignals
F 1/29/16		Recitation: DSP in MATLAB		
M 2/1/16	5	Feature Extraction #1	Litt	

W 2/3/16	6	Cloud computing, big neural data: Hadoop, GWT,	Joost Wagenaar, PhD	HW #3 Feature extraction
F 2/5/16		Recitation		
M 2/8/16	7	Feature Extraction 2	Javier Echauz, PhD; JE research	
*W 2/10/16	8	Machine Learning I	Javier Echauz, PhD; JE research	
F 2/12/16		Recitation		HW #4 HFO classification
M 2/15/16	9	Visual Prostheses	Litt	
W 2/17/16	10	Machine Learning II	Hoameng Ung	
F 2/19/16		Recitation (Drop Period Ends)		
M 2/22/16	11	Functional Localization	Litt	
W 2/24/16	12	Auditory Prostheses	Litt	HW #5 Vision
F 2/26/16		Recitation		

M 2/29/16	13	Haptics and BCI/ Sensory Prostheses	Litt	
W 3/2/16	14	Unit detection, clustering, classifying	Joost	HW #6 Analyzing Units
F 3/4/16		Recitation (by request)		
<i>3/5-3/13/16 Spring Break</i>				
Welcome Back!		Welcome Back!	Welcome Back!	Welcome Back!
M 3/14/16	15	Motor Control: Robot Monkeys Conquer the World	Litt	
W 3/16/16	16	Sensorimotor Control	Tim Lucas, MD, PhD, Penn Neurosurgery	HW #7 Sensorimotor Control Contest
F 3/18/16		Recitation		
M 3/21/16	17	Deep Brain Stimulation	Litt	
W 3/23/16	18	Functional Electrical Stimulation	Litt	

F 3/25/16		Recitation		**Last Day To Withdraw From Course**
M 3/28/16	19	Epilepsy I	Litt	
W 3/30/16	20	Schalk Speech, P300	Gerwin Schalk, PhD Wadsworth Center	HW # 8 P-300 speech Decoder
F 4/1/16		Recitation		
M 4/4/16	21	Biocompatibility	Litt	
W 4/6/16	22	Ethics and BCI	Litt	Rest or Something Fun
F 4/8/16		Recitation		
M 4/11/16	24	Cognitive Neuroprostheses	Litt	

W 4/13/16	25	BCI and Hardware Design	Kuzum	<i>HW #10 Sz Detection Contest</i>
F 4/15/16		Recitation		
M 4/18/16	26	FDA....	Litt	Program Devices
<i>W 4/20/16</i>	27	Michelle Johnson, Rehab devices	Litt	<i>HW #11 Prediction Contest</i>
<i>F 4/22/16</i>		Recitation Optional: Passover Starts		
<i>M 4/25/16</i>		Data Sharing, Start-ups and Next Steps or Medtronic	Litt	
<i>W 4/27/16</i>		New Things Since Course Started	Litt	Last Day of Class
W 5/4/16 finals		Meet in class for recap, winners and runners up discuss method	Pizza and PRIZES	Contest submissions due at midnight 5/5/15