

Week	Theme		Monday	Tuesday	Thursday	Friday
1	Neuro-science 1	Date/inst.	7/3 Casimo	7/4 no class	7/5 Casimo	7/6 Casimo
		Topic	Intro, pretest, scope	No class	Gross anatomy, vocabulary, neurons, synapses, plasticity	Major systems of the brain overview
		Events	Pretest (ungraded)	No class		
2	Neuro-science 2	Date/inst.	7/10 Casimo	7/11 Casimo	7/13 Brown	7/14 Casimo
		Topic	Finish Friday, intro to science writing, begin dissections	Finish dissections	Guest lecture- ethics in neural engineering 1	Diseases of the nervous system – causes, treatments, engineering
		Events				Weekly recap worksheet
3	Engineering 101	Date/inst.	7/17 Casimo	7/18 Casimo	7/20 Bjanas	7/21 Bjanas and Casimo
		Topic	Principles of engineering, existing BCIs, BCI goals	Monday continued, introduce final project	Guest lecture - biological systems engineering	EMG activity
		Events	Sheep brain recap	Vocabulary quiz		Weekly recap worksheet
4	Sensory systems	Date/inst.	7/24 Casimo	7/25 Casimo	7/27 Cronin	7/28 Cronin and Casimo
		Topic	Visual, auditory, vestibular senses (function, anatomy,	Touch, pain, proprioception (function, anatomy, disorders/loss)	Guest lecture - engineering sensation and perception	Sensory illusions demos
		Events		Final project proposal	Circuits recap	Weekly recap worksheet

5	Motor systems	Date/inst.	7/31 Casimo	8/1 Casimo	8/3 Wu	8/4 Wu and Casimo
		Topic	Motor systems in brain and body	Motor learning, reasons for engineering motor systems	Guest lecture - motor systems, engineering motor systems	3D printing (NO REPORT)
		Events	Final project progress report		Sensory recap	Weekly recap worksheet
6	Grand finale	Date/inst.	8/7 Casimo	8/8 Casimo	8/10 Casimo	8/11 Brown and Casimo
		Topic	Exam review, work on presentations, catch up	BCI project presentations	Final exam	Guest lecture- ethics in neural engineering 2
		Events		Class presentations	Exam; project materials due	Award ceremony