				Topic	Background Reading	Section	Assignments Due
Septem		5	W	Course Intro/Overview		no section	_
Septem	nber	7	F	Cellular/subcellular organization Vascular System &	Byrne p 1-23	110 3000.011	
Septem	nber	10	М	Neurometabolism	Byrne p 49-58 (optional: 58-80;91-97)		
·				The Membrane Potential	Byrne p 133-139 &	no section	
Septem		12	W		Nicholls p 99-109*		
Septem Septem		14 17	F M	Active Transport/Ion Pumps Neurons as RC circuits	Fain p 95-121* Nicholls p A2-A8*		
Septem		19	W	Passive Properties - Cable Theory	Byrne p 111-126	1	
_	_			Active Properties of the Membrane	Byrne p 139-144;181-	1	
Septem	nber	21	F		185		pset 1 due before
Septem	nber	24	М	Hodkin & Huxley Gating Model	Byrne p 185-197		class
_	_			Dynamical Systems Analysis of	Byrne p 198-213	2	
Septem Septem		26 28	W F	Action Potentials Ion Current Diversity and Function	Byrne p 145-155		
Septen	ibei	20		1			pset2 due before
Octobe		1	М	Ion Channel structure	Byrne p 159-176		class
Octobe	er	3	W	Electrical Synapses Chemical Synapse: NT release -	Byrne Ch 15	3	
Octobe	er	5	F	quantal analysis	Byrne Ch 8		
Columb	ous Day	8	М	no class			
Octobe	r	10	w	Chemical Synapse: Vesicles I: Exocytosis		4	
Octobe	:1	10	VV	Chemical Synapse: Vesicles II:	Byrne Ch 8	4	
Ocotob	er	12	F	Endocytosis**			
Ostaba		15		NT diversity	Byrne Ch 9 and 10	no section;	pset3 due before
Octobe Octobe		15 17	M W	MIDTERM		optional review	class
Octobe		19	F	no class		sesson TBA	
0-4-1-		22		Neuronal Polairty & Intracellular	Byrne p23-48		
Octobe	er	22	М	Trafficking Direct Excitatory Synaptic			
				Transmission I: Ach Receptor		5 - cover term	
Octobe	er	24	W	Structure and Function		paper guidelines	
				Direct Excitatory Synaptic Transmission II: AMPA and NMDA	Byrne Ch 11, p 321-343	•	
Octobe	er	26	F	Receptors			
				Direct Inhibitory Synaptic			
Octobe	er	29	M	Transmission: GABA and Glycine Indirect Syanptic Transmission I:		6 - paper	
Octobe	er	31	W	Metabotrophic Receptors	Byrne Ch 11, p 343-355	selection due	
	_	_		Indirect Syanptic Transmission II:	Byrne Ch 12		
Novem	ber	2	F	Second Messengers	·		pset 4 due before
Novem	ber	5	М	Superstorm Sandy	no class		class
Novem	ber	7	W	Intrinsic Plastiicty	no reading	7	
Novem	hor	9	F	Short Term Plasticity	Byrne p 255 -258; 544- 549		
Novem		12	M	Long Term Plasticity I	Byrne Ch 19		
Novem	ber	14	W	Long Term Plasticity II	Byrne Ch 19	8	
Novem	ber	16	F	Long Term Plasticity III	Byrne Ch 19	-	pset 5 due before class
Novem		19	M	no class		no coction	Class
Thanks	_	21	W			no section - thanksgivng	
Thanks	giving	23	F		Byrne Ch 4, p 126-130	0 0	
Novem	ber	26	М	Info processing in dendrites	& Ch 17		
	_			Info processing in circuits	Ch 18	9	term paper rough
Novem Novem		28 30	W F	Neurodegeneration	Byrne Ch 20		draft due in section
Decem		3	M	Cutting Edge Research	no reading		
	g Period		W	-			
_	g Period g Period		F M	TERM PAPER I	JUE		
_	g Period		W				
Exam P	eriod	14	F				
Exam P		17 19	M W	FINAL EXAM - date to b	e detemined		
Exam P		21	F				
					* Readings from Fain and Nichollis will be		
				** End of material for the midterm	provided on the		
					wesbite		