Week	Lecture	Lab
1. Sept 11;	- Course organization and	Using the equipment: Model neurons:
12&13	expectations	resistor and capacitor circuits.
	- Signal acquisition: A/D	_
	- Data presentation, report format,	
	graphs etc.	
2. Sept. 18;	Graphs of model neuron data due	Crayfish superficial flexor muscle (1)
19&20	Sept. 18 (5%)	Spontaneous spikes versus psps.
	Extracellular and intracellular	
	recording techniques. Superficial	
	flexor muscle dissection	
3. Sept. 25;	Short-term synaptic plasticity	Crayfish superficial flexor muscle (2)
26&27	& neuromodulation	Evoked psps
4. Oct 2; 3&4	Neuronal staining techniques:	Serotonin effects on superficial flexor
	Backfill, iontophoresis.	muscle synapses
	Light and fluorescence microscopy	
	theory and practice, sectioning	Preparation of stained neurons –
	tissue	wholemount nerve backfills
5. Oct ; 10&11	No lecture Stat. holiday	Sectioning, mounting brain tissue/
		start immuno. This will require time
		out of class to do solution changes.
6. Oct 16; 17&18	Immunohistochemistry theory –	Finish immuno, mount tissue.
	lecture Dr. Chow?	Examination/photography of stained
	Crayfish spikes report Due	tissues during lab time and on thur/fri
	Friday the 19th. (10%)	
7. Oct 23; 24&25	Tutorial help – data analysis or	Examination/photography of stained
	figure prep etc. for images	tissues during lab time and on thur/fri
	Staining theory quiz in lecture	
8. Oct 30; 1&2	Voltage gated currents and action	Slugs 1
	potentials.	
	Crayfish Plasticity report due	
	Friday Nov. 4	
9. Nov 6; 7,8	No lecture Reading break	Reading Break Lab open for those
		who want access for slugs
10. Nov. 13;	Presentation of anatomy data – 8	Slugs 2 (more slugs)
14&15	groups, 10 minutes each,	
	powerpoint	
11. Nov 20;	Open Independent project	Independent Project
21&22		
12. Nov 27;	Independent Project	Independent Project
28&29		
Exam during	Independent Project Presentation-	
exam period	"defense". 8 presentations	
	scheduled during 3 hour exam	
	period.	

Text: Neuroscience (Purves) for theory Crawdad online manual https://www.amazon.ca/Crawdad-Online-Lab-Manual-Neurophysiology/dp/1605353213

Marking:

- Model neuron report 5%
- Crayfish muscle report1 15% -- Oct 19
- Crayfish muscle report2 15% -- Nov. 4
- Anatomy theory quiz 5% Oct 23
- Anatomy presentation 20% Nov. 13 and report Nov. 17
- Slug neuron report 15% **Dec. 2**
- Project Report and Final "Exam" presentation **Date TBA-** 15 + 10 = 25%