

Biology 367 Neurobiology: Molecules to Behaviour Spring 2020

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- Office: 'uningham 215
- Office hours:)* appointment

Time and Place: 1st year, April 2020. / on- 0hr 2:10 pm 2 1:10 pm. David Ourpin (Building, 102

Information in this outline is current as of Jan. # 2020 and subject to update. Changes to the outline will be advertised in lecture and available on coursespaces.uvic.ca.

5 Course objective: To acquire knowledge of the principles of function of nervous systems through an understanding of the cellular properties of neurons and their integration into neural circuits to produce behaviours and perceptions. Topics to be covered include:

- Structure of neurons and nervous tissue
- Electrical properties of neurons: passive and active
- Synaptic transmission) tetanic neurons: presynaptic and postsynaptic elements
- Synaptic plasticity: activity and neuromodulator dependent processes
- Learning and memory: plasticity at the cellular and systems level
- Sensorimotor systems: transduction of sensory signals- sensorimotor system integration
- Motor systems: motor control
- Nervous system development

! Course evaluation:

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