

Biology 367 Neurobiology: Molecules to Behaviour
Spring 2024

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- Office: Cunningham 259A
- Office hours: Available for 30 minutes after each lecture or by appointment

Information in this outline is current as of Jan. 1, 2024 and subject to update. Any changes to the outline will be advertised in lecture and available on BrightSpaces. <https://brightspaces.uvic.ca>

Recordings of lectures will not be posted.

The objective of the course is to have students acquire knowledge of nervous system function through understanding of the cellular properties of neurons and their integration into neural circuits to produce behavior and perception. Both qualitative and quantitative descriptions of neuronal function will be undertaken with an emphasis on understanding the mechanisms that contribute to higher order sensory, motor and cognitive functions. The course includes a comparative approach examining neuronal function in a diversity of vertebrate and invertebrate organisms to illustrate these processes.

Topics covered include:

Neurons and nervous tissue

Properties of neurons including passive and active membranes, (injury)

- Physiological basis for higher order neural processes – Emotion, Addiction, Sleep etc.

- Course Evaluation:

Material tested in examinations will be derived directly from material presented in class.

Sections of the course textbook directly related to material presented in class.

Feb. 05, In-class Quiz – not a required course component (0% or 0%)

Feb. 25, Midterm Exam required 2 (r)3 (e)4 (d) -10 hP <</MCID1w 3.7 d

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possible – e.g. within 24 hours or have a valid reason for not contacting within 24 hours -- to determine when the makeup exam is scheduled. For obvious reasons once the answers to the midterm are available to the class a deferred exam is not possible so timely completion of any makeup exam is required.

Deferral of Final exam: If illness prevents writing of the FINAL examination students must inform the instructor AND if a deferred exam cannot be completed prior to the submission of class grades an N (incomplete) grade will be submitted and the student must submit a