

Biology 367 Neurobiology: Molecules to Behaviour Spring 2020

1

- Instructor: Dr. Raad Nashmi
- Email: raad@uvic.ca
- Phone: 250-721-6169
- Office: Cunningham 259B
- Office hours: by appointment

Time and Place: Jan 6 - April 2, 2020; Mon, Thur 2:30 pm – 3:50 pm; David Turpin Building A102

Information in this outline is current as of Jan. 6, 2020 and subject to update. Changes to the outline will be advertised in lecture and available on **coursespaces.uvic.ca**.

• **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 between neurons: presynaptic and postsynaptic elements
- Synaptic plasticity: activity and neuromodulator dependent processes
- Learning and memory: plasticity at the cellular and systems level
- Sensory Systems: transduction of sensory signals, sensory system integration
- Motor Systems: motor control
- Nervous system development

• **Course Evaluation:**

Midterm Exam	(45%) Feb. 13 (to be confirmed)
Final Exam	(55%) Scheduled by U/G Records

• **Required text:** Purves et al, Neuroscience 5th or 6th ed.
<http://www.oupcanada.com/catalog/9781605353807.html> .

Midterm and Final Exams:

Exams will be based on information covered in lectures.

The final exam will be cumulative.

Failure to write the midterm test will result in a grade of 0% for the exam. If you miss the midterm test for a valid reason (documented illness, accident, family affliction, or sporting commitments as a UVic athlete), please contact the instructor as soon as possible (no later than 48 hrs from the date of the exam) and provide suitable documentation for your absence. If you qualify for a missed midterm test, you will be accommodated so that you will not incur any penalty.

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2

The final exam can be deferred in cases of documented illness, accident, family affliction, or sporting commitments as a UVic athlete. If you miss or expect to miss the exam for any of these reasons, please notify the instructor and produce supporting documentation as soon as possible. You must also fill out a Request for Academic Concession form, available from the Records office, as soon as possible in order to have your request for deferral considered. Travel plans are not a valid reason for missing the midterm test or the final exam.

No supplemental final exam will be given in this course as per Biology Dept. policy.

You must be able to produce your UVic student identification card during the midterm test and final exam.

Grading:

The final grade for the course, will be submitted as a percentage grade (rounded to the nearest whole percent by our spreadsheet program).

Please do not ask me to raise your grade and please do not ask us for extra-credit work to raise your grade; no such work is available.

Academic regulations and policies:

Please read the appropriate section of the current UVic Academic Calendar regarding your rights and obligations. In particular students are to attend to ADD/DROP dates published in the Calendar and posted on the Undergraduate Records website. **Students must not assume they will be dropped automatically from any course they do not attend.** Students are responsible for checking their records and registration status, available on Webview (www.uvic.ca/reco).