Students requiring accommodations as a result of a disability must contact the Centre for Students with Disabilities (604-291-3112 or csdo@sfu.ca).

BIOLOGICAL SCIENCES 472

Special Topics
Nervous System Development

Spring (1171)

Instructor: Dr. Harald Hutter — Office: B8226
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Prerequisites:
BISC202 and MBB 222 with a grade of C- or better.
Recommended: BISC333 and BISC305

Course description:
This is an introductory course in Developmental Neurobiology. It will cover various aspects of neuronal development beginning with the specification of neurons and regionalization of the developing nervous system in the early embryo. We will follow the birth and differentiation of neurons, their axon outgrowth and navigation as well as synaptic target selection and the formation and maturation of neuronal circuits. The various developmental processes will be presented using studies from both invertebrate and vertebrate model organisms with emphasis on the molecular basis of nervous system development. Selected topics will be explored in more detail using primary literature. Depending on enrolment, presentations of primary literature by students can be a significant part of the course.

Recommended textbook:
Development of the Nervous System
D.H. Sanes, T.A. Reh and W.A. Harris
Third Edition, Academic Press (2012)

Primary literature will be used in addition to the textbook.

Mark distribution

Tutorials:	10%
Midterm Exam :	30%
Final Exam:	60%