Kin 473

**Neuroanatomy of Human Movement**

*Neuroanatomy of human motion in healthy and clinical populations*

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Time: TBD

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**Lecture Location and Time:**  
Tuesday/Thursday  
West Mall Swing Space  
Rm#121  
11 am – 12:30 pm

**Course Evaluation**

1. **Midterm examinations** - All students are **required** to write both mid-term exams  
   Date for Midterm 1 (25%) – Thursday February 6th, 2020  
   Date for Midterm 2 (25%) – Thursday March 12th, 2020

2. **Final Exam** – (50%) All students are **required** to write the final examination.  
   Date and time of the final exam set by registrar during final exam period

Note: Term tests will not be rescheduled, or re-weighted with another test (in most cases), for any reason other than a medical issue or family emergency. Written documentation must be presented in order for the test to be rescheduled/reweighted. If you do not contact your instructor, you will be given a score of zero on the assessment.

**Prerequisites:** Third-year standing

**Readings and Resources:**  
Required Textbook:  
“Neuroanatomy Through Clinical Cases” 2nd Edition, by Hal Blumenfeld  
Publisher: Sinauer Associates Inc.
Global Learning Objectives
1. To learn functional neuroanatomy through the study of clinical cases
2. To learn how the central nervous system contributes to healthy human movement
3. To learn clinical symptoms associated with movement disorders due to brain injury & disease.

Course Learning Objectives:
By the end of this course, you will be expected to:
1) Understand the spatial and functional organization of the brain and spinal cord
2) Know the major ascending and descending motor and sensory pathways in the CNS
3) Learn the major symptoms of movement disorders due to brain injury and disease
4) Be able to diagnose from clinical symptoms, the major neural structures and pathways involved in a specific movement disorder
5) Demonstrate a professional behavior toward class participation and involvement.

Class notes and use of Canvas:
Class notes (skeleton version) will be made available in PPT file-format through the course website. Students are encouraged to bring these notes along with paper and pen to class. Notes will be posted 18-hours prior to each class. Please keep in mind that these notes provide a basic overview of what will be covered and do not contain important details, information related to discussions, in-class assignments, or specific examples, which will be covered in class. References are made to specific figures found within the required textbook. The instructor and teaching assistants will not make a full set of notes available online, and will not provide them upon request. Missed class notes should be acquired from your classmates.

Policies and Expectations:

Class Attendance
Regular attendance is expected of students for all lectures, laboratories, tutorials, seminars, etc. Students who neglect their academic work and assignments may be excluded from final examinations. Students who are unavoidably absent because of illness or disability should report to their instructors on return to classes.

Academic Accommodation for Students with Disabilities
The University's goal is to ensure fair and consistent treatment of all students, including students with a disability, in accordance with their distinct needs and in a manner consistent with academic principles. Students with a disability who wish to have an academic accommodation should contact Access and Diversity without delay.

Academic Integrity
All UBC students are expected to behave as honest and responsible members of an academic community. Breach of those expectations or failure to follow the appropriate policies, principles, rules, and guidelines of the University with respect to academic honesty may result in disciplinary action. It is your responsibility to become familiar with the University of British Columbia's Academic Honesty and Plagiarism Policies, as well as the Student Declaration and the consequences of violating these policies.
General Outline of Lectured Topics

A. Overview of Neuroanatomy
B. Disorders involving Primary Motor Cortex and Cortico-spinal Tracts
C. Disorders involving Primary Somatosensory Cortex and Ascending Afferent Pathways
D. Disorders involving Higher Order Processing
E. Disorders involving the Basal Ganglia
F. Disorders involving Cerebellum
G. Disorders involving Cranial Nerves V, VII, VIII
H. Major Vascular Supplies to Brain and Spinal Cord