

Outline for Advanced Neuroanatomy MSC1006H

Outline and description:

This course will focus on detailed review of the fundamental organization of the nervous system, at both the gross and cellular levels. The major components of the nervous system will be discussed in a lecture format. The lectures will be supplemented with interactive anatomy sessions, either in the laboratory or using multimedia platforms. Student-led presentations will maximize the students' contact with techniques employed to study neuroanatomy. This course is suitable for students who have some background in the neurosciences who are now embarking in a neuroscience project as part of their graduate degree. Course assessment will be based on quizzes, presentations as well as a final examination.

Textbook: Neuroanatomy, text and atlas, by John H. Martin, 4th edition.

Class outline for 2017

Dates	Lecture	Quiz	Notes	Location
Jan 6	Introduction	No Quiz		TBD
Jan 13	Brainstem I	Quiz 1		
Jan 20	Brainstem II	Quiz 2		
Jan 27	3D Session	Quiz 3		
Feb 3	Spinal Cord	Quiz 4	Student led	TBD
Feb 10	Thalamus	Quiz 5	presentations	
Feb 17	Hippocampus	Quiz 6	each week Feb 3	
Feb 24	Cerebellum	Quiz 7	– March 2	
March 3	Basal Ganglia	Quiz 8		TBD
March 10	3D session			
March 17	3D session			
March 31	Review session			
April 7	EXAM			

Each quiz covers 2 chapters of the textbook, such that at the end of the course, the students have read through the whole textbook of Neuroanatomy.

Student led presentations: Students select papers based on a technique of the study of either the structure or function of neuroanatomy (at a macro, non-cellular level). Each student presents their paper with particular focus on the technique used and its role in neuroanatomy research.