

SCHEDULE OF TOPICS

Date	Topic	Readings
<hr/> SECTION I: THE RODENT BRAIN <hr/>		
Sep. 9	Introduction I: The course	
Sep. 12	Introduction II: Rats as model to study brain & behavior	Kolb & Tees 1990
Sep. 16	The rodent cortex I: Structure and function	
Sep. 19	Animal use in research and teaching Dr. Andrew Winterborn	handout
Sep. 23	The rodent cortex II: Models of dysfunction and disease	Vanderwolf 1992
<hr/> SECTION II: MEMORY AND PLASTICITY <hr/>		
Sep. 26	Navigation & spatial memory I: Neurobiology	Lee et al. 1998
Sep. 30	Navigation & spatial memory II: Morris water maze	none
Oct. 3	NeuroTopic #1: Neocortex (presentations)...	
Oct. 7	THANKSGIVING: NO CLASS	
Oct. 10	...presentations continued	
Oct. 14	Plasticity I: Learning/memory mechanisms	Morris 2013
Oct. 17	Plasticity II: The dynamic memory trace	McGaugh 2000
Oct. 21	Neurogenesis I: History, evidence, and functions	Leuner 2006
Oct. 24	Neurogenesis II: The "Depression Link"	Jacobs 2002
Oct. 28	NeuroTopic #2: Memory and plasticity (presentations)	
Oct. 31	... continued	
<hr/> SECTION III: COMPLEX SYSTEMS AND BRAIN STATES <hr/>		
Nov. 4	Sleep I: Neurobiology	Hobson 2005
Nov. 7	Sleep II: Functions	Frank & Benington 2006
Nov. 11	Rhythms of the brain I	Ahmed & Cash 2013
Nov. 14	Rhythms of the brain II	Wagner 2001
Nov. 18	NeuroTopic #3: Sleep and brain rhythms (presentations)...	
Nov. 21	...continued	
Nov. 25	The question of "consciousness"	Vanderwolf 1998
Nov. 28	Open session: Final discussions, questions, out to lunch.....	

Exam period: FINAL EXAM

Academic Integrity

Academic integrity is constituted by the five core fundamental values of honesty, trust, fairness, respect and responsibility (see http://www.academicintegrity.org/fundamental_values_project/index.php). These values are central to the building, nurturing and sustaining of an academic community in which all members of the community will thrive. Adherence to the values expressed through academic integrity forms a foundation for the "freedom of inquiry and exchange of ideas" essential to the intellectual life of the University (see the Senate [Report on Principles and Priorities](#))

Students are responsible for familiarizing themselves with the regulations concerning academic integrity and for ensuring that their assignments conform to the principles of academic integrity. Information on academic integrity is available in the Arts and Science Calendar (see [Academic Regulation 1](#)), on the Arts and Science website (see <http://www.queensu.ca/artsci/academics/academic-integrity>), and from the instructor of this course.

Departures from academic integrity include plagiarism, use of unauthorized materials, facilitation, forgery and falsification, and are antithetical to the development of an academic community at Queen's. Given the seriousness of these matters, actions which contravene the regulation on academic integrity carry sanctions that can range from a warning or the loss of grades on an assignment to the failure of a course to a requirement to withdraw from the university.

Web-based academic resources: <http://www.asus.queensu.ca/acsfacts>

Academic integrity regulations: <http://www.queensu.ca/artsci/integrity/instructor/education.html>

Disability Accommodations Statement

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