

**PHYSIOLOGICAL PSYCHOLOGY II**  
**PSYC-3900-3 Section 001**  
**Winter, 2018**

COURSE OUTLINE

Instructor: Dr. Bruce Bolster  
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REQUIRED TEXT:

Striedter, Georg F. (2016). Neurobiology: a Functional Approach  
Oxford University Press, ISBN 978-0-19-539615-7  
- available in hardcover or as a e-book

CALENDAR DESCRIPTION:

This course is a continued study of the structure and function of the nervous system with an emphasis on the physiological and neurological processes underlying regulatory, instinctual and social behaviour in animals and humans, and on brain systems involved in learning and memory. Laboratories will focus on research techniques in neuroscience, including neuroanatomy, histology, electrophysiology, and neuroimaging.

*Prerequisite:* PSYC 2900/3

OVERVIEW:

This is a course in behavioural neuroscience, focusing on the brain mechanisms that underlie movement and action in a biological and evolutionary context. The emphasis is on normal, as opposed to abnormal or pathological processes, and on empirical research into the neurology and neurophysiology of adaptive behaviour. Labs will focus on functional anatomy, using dissection and histological preparation of preserved sheep brains to visualize brain structure.

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TOPIC AND READING OUTLINE:

1. **Movement and action** - *Topics include:*

Using muscles and glands – **Chapter 8**  
Controlling posture and locomotion – **Chapter 10**  
Selecting actions and pursuing goals – **Chapter 15**

2. **Nervous system regulation** - *Topics include:*

Developing a nervous system – **Chapter 4**  
Brain stability in adulthood – **Chapter 5**  
Regulating vital functions – **Chapter 9**  
Regulating brain states – **Chapter 13**

3. **Learning and memory** - *Topics include:*

Cellular substrates of learning & memory – **Chapter 3**  
Remembering relationships – **Chapter 14**

4. **The self and its brain – species, sex and individual differences**

Being different from others – **Chapter 16**

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COURSE OUTLINE (cont'd)

GRADING:

Marks will be allocated as follows:

Mid-term test	30
Labs	30
<u>Final Exam</u>	<u>40%</u>
TOTAL	100%

Mid Term – **Friday, Feb. 16**, 10:30 – 11:30, 1RC018

Labs: **Friday** 2:30 - 5:15, Room 0RC045

Final exam –TBA .

NOTE: The final date for voluntary withdrawal is **Wednesday, March 1**.

GRADE COMPUTATION

Grade point totals, determined by the above formula, will be converted to letter grades according to the following scale:

A+	95 - 100	C+	65 - 69
A	85 - 94	C	55 - 64
A-	80 - 84	D	50 - 54
B+	75 - 79	F	0 - 49
B	70 - 74		

**NOTE:** These cutoffs are **tentative**, and subject to change in either direction.

### EXAMPLE OF GRADE COMPUTATION:

Student*	Mid-term (30)	Lab (30)	Final (40)	Total (100)	Grade
Homer	18	20	27	65	C+
Bart	20	22	31	73	B
Lisa	24	28	35	85	A

### **Appendix: University Policies**

Students with documented disabilities, temporary or chronic medical conditions, requiring academic accommodations for tests/exams (e.g., private space) or during lectures/laboratories (e.g., access to volunteer note-takers) are encouraged to contact Accessibility Services (AS) at 786-9771 or email [accessibilityservices@uwinnipeg.ca](mailto:accessibilityservices@uwinnipeg.ca) to discuss appropriate options. Specific information about AS is available on-line at <http://www.uwinnipeg.ca/accessibility>. All information about a student's disability or medical condition remains confidential.

Students should be familiar with the Regulations and Policies section of the *Course Calendar* dealing with academic regulations and policies including Senate appeals and academic misconduct (e.g. plagiarism, cheating)

Students facing a charge of academic or non-academic misconduct may choose to contact the University of Winnipeg Students' Association (UWSA) where a student advocate will be available to answer any questions about the process, help with building a case, and ensuring students have access to support. For more information or to schedule an appointment, visit our website at [www.theuwsa.ca/academic-advocacy](http://www.theuwsa.ca/academic-advocacy) or call 204-786-9780.

All students, faculty and staff have the right to participate, learn and work in an environment that is free of harassment and discrimination. The UW Respectful Working and Learning Environment Policy may be found online at [www.uwinnipeg.ca/respect](http://www.uwinnipeg.ca/respect).

Students may choose not to attend classes or write examinations on holy days of their religion, but they must notify their instructors at least two weeks in advance. Instructors will then provide opportunity for students to make-up work and/or examinations without penalty. A list of religious holidays can be found at: <http://uwinnipeg.ca/academics/calendar/docs/important-notes.pdf>