

	<p>School of Arts & Science PSYCHOLOGY DEPARTMENT PSYC 215 Biological Psychology Quarter or Semester/Year</p>
---	--

COURSE OUTLINE

The course description is online @ <http://camosun.ca/learn/calendar/current/web/psyc.html>

Ω Please note: the College electronically stores this outline for five (5) years only.
It is **strongly recommended** you keep a copy of this outline with your academic records.
You will need this outline for any future application/s for transfer credit/s to other colleges/universities.

1. Instructor Information

(a)	Instructor:	Michael Pollock		
(b)	Office Hours:	Mondays 2:30pm to 3:20pm Tuesdays 1:30pm to 2:20pm Wednesdays 1:00pm to 1:50pm Thursdays & Fridays 11:30am-12:20pm, or by appointment		
(c)	Location:	Fisher 308B		
(d)	Phone:	250-370-3111	Alternative Phone:	
(e)	Email:	pollockm@camosun.bc.ca		
(f)	Website:	D2L		

2. Intended Learning Outcomes

Upon completion of this course the student will be able to:

1. Summarize the history of biopsychology, and the relationship of biopsychological theories and methods to the broader field of psychology.
2. Compare the most important research methods used in biopsychology.
3. Discuss the basic concepts, supporting the evidence for the interaction of evolution, genetics and experience in the development of behaviour.
4. Label and summarize the basic structures and functions of the human nervous system.
5. Explain the processes involved in neural conduction and synaptic transmission.
6. Label images of the human visual system and explain basic visual processes in the central nervous system.
7. Discuss the mechanisms of perception, consciousness, awareness and attention.
8. Describe the functioning of the human sensorimotor system.
9. Summarize the processes involved in the development of the human nervous system and the ways in which the human brain attempts to cope with brain damage with an emphasis on neuroplasticity.
10. Discuss human learning, memory and amnesia as they relate to the human brain.
11. Summarize human sexual development, human sexual dimorphism and the effects of hormones on human development and behaviour.
12. Describe a model of drug addiction and a general model of the effects of various drugs on the neuronal function.
13. Discuss various disorders of cognition and emotion with regard to the human brain.
14. Summarize the effects of stress and emotions on human neurophysiology.
15. Discuss the neurophysiology of schizophrenia, depression and anxiety and attempts to treat these disorders.

3. Required Materials

Pinel, John P. J. (2011). *Biological psychology*. (8th ed.). Toronto: Pearson.

4. Course Content and Schedule

Course Content:

This course familiarizes students with the major findings and issues associated with biopsychology. The first part of the course will examine the fundamentals of neurophysiology, neuropharmacology, neuroanatomy, genetics, and evolution. The rest of the course will focus on how these biological fundamentals are applied to the study of biopsychological phenomena, including sensation, perception,

action, development, neuroplasticity, learning, memory, hunger, sex, sleep, dreams, reward pathways, addiction, emotions, and mental disorders. Lectures will not only cover material presented in the assigned readings but will also show how to apply this information to real-life situations and will evaluate the practical significance of reported effects with in-class demonstrations whenever possible. In addition, in order to make learning of the material as interesting as possible, questions will be posed in class in a fun and engaging environment.

COURSE SCHEDULE				
Week	Lecture#	Lecture topic	Readings	Assignment due in lab
Jan 7-11		Introduction, course outline, and tips for studying		
Jan 14-18	1	Biopsychology and its methods	Chapters 1&5	
Jan 21-25	2	Neurophysiology and neuropharmacology	Chapter 4	Research question
Jan 28-Feb 1	3	Neuroanatomy and lateralization	Chapters 3&16	
Feb 4-8	4	Evolution and genetics	Chapter 2	
Feb 11-15		Midterm exam		
Feb 18-22	5	Sensation	Chapters 6 & 7	<i>College Conversations Day No labs this week</i>
Feb 25-Mar 1	6	Perception & action	Chapters 7 & 8	Research articles
Mar 4-8	7	Development and neuroplasticity	Chapters 9&10	Deadline to schedule individual presentation time
Mar 11-15	8	Learning and memory	Chapter 11	Scheduled individual presentations
Mar 18-22	9	Hunger and sex	Chapters 12&13	Scheduled individual presentations
Mar 25-29	10	Sleep and dreams	Chapter 14	Scheduled individual presentations
Apr 1-5	11	Reward pathways, addiction, and emotions	Chapters 15&17	Scheduled individual presentations
Apr 8-12	12	Psychiatric disorders	Chapter 18	Poster session
TBA		Final exam		

5. Basis of Student Assessment (Weighting)

Your course grade will be based on the total number of points you receive on examinations, quizzes, and an assignment, in addition to opportunities in class for bonus points. Each of these components of your course grade is described in detail below. You can check with the instructor at any time during the semester for your current class standing and you are invited to discuss any concerns about your grade.

Each requirement will receive the following weight in determining your final grade:

Midterm Exam:	20%
Final Exam:	40%
Quizzes:	20%
Assignment:	20%

6. Grading System

Standard Grading System (GPA)

Percentage	Grade	Description	Grade Point
------------	-------	-------------	-------------

			Equivalency
90-100	A+		9
85-89	A		8
80-84	A-		7
77-79	B+		6
73-76	B		5
70-72	B-		4
65-69	C+		3
60-64	C		2
50-59	D	Minimum level of achievement for which credit is granted; a course with a "D" grade cannot be used as a prerequisite.	1
0-49	F	Minimum level has not been achieved.	0

Temporary Grades

Temporary grades are assigned for specific circumstances and will convert to a final grade according to the grading scheme being used in the course. See Grading Policy E-1.5 at camosun.ca for information on conversion to final grades, and for additional information on student record and transcript notations.

Temporary Grade	Description
I	<i>Incomplete:</i> A temporary grade assigned when the requirements of a course have not yet been completed due to hardship or extenuating circumstances, such as illness or death in the family.
IP	<i>In progress:</i> A temporary grade assigned for courses that, due to design may require a further enrollment in the same course. No more than two IP grades will be assigned for the same course. <i>(For these courses a final grade will be assigned to either the 3rd course attempt or at the point of course completion.)</i>
CW	<i>Compulsory Withdrawal:</i> A temporary grade assigned by a Dean when an instructor, after documenting the prescriptive strategies applied and consulting with peers, deems that a student is unsafe to self or others and must be removed from the lab, practicum, worksite, or field placement.

7. Recommended Materials or Services to Assist Students to Succeed Throughout the Course

LEARNING SUPPORT AND SERVICES FOR STUDENTS

There are a variety of services available for students to assist them throughout their learning. This information is available in the College calendar, at Student Services, or the College web site at camosun.ca.

STUDENT CONDUCT POLICY

There is a Student Conduct Policy **which includes plagiarism**. It is the student's responsibility to become familiar with the content of this policy. The policy is available in each School Administration Office, at Student Services, and the College web site in the Policy Section.

ADDITIONAL COMMENTS AS APPROPRIATE OR AS REQUIRED