



## 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:	Dr. Michael Pollock
(b)	Office Hours:	Mon 12:00-1:50; Tues 12:00-2:20
(c)	Location:	Fisher 308B
(d)	Phone:	250-370-3111
(e)	Email:	pollockm@camosun.ca
(f)	Website:	<a href="http://online.camosun.ca">http://online.camosun.ca</a>

### 2. Intended Learning Outcomes

(No changes are to be made to these Intended Learning Outcomes as approved by the Education Council of Camosun College.)

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. (2014). *Biopsychology*. (9th ed.). Toronto: Pearson.

### 4. Course Content and Schedule

Neuroscience is a relatively new field of study, but could its findings eventually provide an explanation for all of our behavior by reducing our thoughts and feelings down to the workings of the brain? This course familiarizes students with the current major findings and limitations associated with biopsychology - the study of how biological knowledge can be applied to psychological topics. In the process of trying to understand the biological mechanisms of the mind, topics will range from the microscopic (e.g., genetics, the electrophysiology of neurons, and neurochemistry) to the macroscopic (e.g., functional neuroanatomy

and how the different parts of the nervous system interact). This course is a must for anyone interested in understanding the biological underpinnings of our minds.

COURSE SCHEDULE			
Week	Date	Lecture	Assigned readings
WK 1		Introduction & Course Overview	
	Jan 9 M	Lecture: Introduction and course overview	
	Jan 11 W	Lab: Online quiz demonstration	
WK 2		Biopsychology & its Methods	Ch.1 & 5.1
	Jan 15 S	Online quiz due: Biopsychology & its Methods	
	Jan 16 M	Lecture: Topic #1 - How can you know which biopsychological claims are true?	
	Jan 18 W	Lab: In-class quiz - Biopsychology & its Methods	
WK 3		Behavioral Genetics	Ch.2.3 & 2.5
	Jan 22 S	Online quiz due: Behavioral Genetics	
	Jan 23 M	Lecture: Topic #2 - How much of your personality is due to genetics?	
	Jan 25 W	Lab: In-class quiz - Behavioral Genetics	
WK 4		Electrophysiology	Ch.3.2 & 4.1-4.4
	Jan 29 S	Online quiz due: Electrophysiology	
	Jan 30 M	Lecture: Topic #3 - How does your mind arise from the electrical activity of brain cells?	
	Feb 1 W	Lab: In-class quiz - Electrophysiology	
WK 5		Midterm #1	
	Feb 6 M	Lecture: Midterm Review #1	
	Feb 8 W	Lab: Midterm Exam #1	
WK 6		Reading Break	
	Feb 13 M	No classes	
	Feb 15 W	No classes	
WK 7		Neurochemistry & Neuropharmacology	Ch.4.5-4.7, 15.3, & 18.1-18.2
	Feb 19 S	Online quiz due: Neurochemistry & Neuropharmacology	
	Feb 20 M	Lecture: Topic #4 - How do chemicals/drugs alter your state of mind?	
	Feb 22 W	Lab: In-class quiz - Neurochemistry & Neuropharmacology	
WK 8		PNS & Brainstem	Ch.3.1, 3.3, 3.5, 3.6, & 14.5

	Feb 26 S	<b>Online quiz due:</b> PNS & Brainstem	
	Feb 27 M	Lecture: Topic #5 - What are the functions of your peripheral nervous system & brainstem structures?	
	Mar 1 W	Lab: <b>In-class quiz</b> - PNS & Brainstem	
WK 9		Forebrain	Ch.3.6, 7.1, 7.3, 8.2, 8.4, 9.2, 15.4, & 17.1-17.4
	Mar 5 S	<b>Online quiz due:</b> Forebrain	
	Mar 6 M	Lecture: Topic #6 - What are the functions of your forebrain structures?	
	Mar 8 W	Lab: <b>In-class quiz</b> - Forebrain	
WK 10		Midterm #2	
	Mar 13 M	Lecture: Midterm Review #2	
	Mar 15 W	Lab: <b>Midterm Exam #2</b>	
WK 11		Lateralization	Ch.16 & 17.4
	Mar 19 S	<b>Online quiz due:</b> Lateralization	
	Mar 20 M	Lecture: Topic #7 - How do the two sides of your brain differ in function?	
	Mar 22 W	Lab: <b>In-class quiz</b> - Lateralization	
WK 12		Perception	Ch.6.4, 6.6, 7.3, 7.5, & 11.7
	Mar 26 S	<b>Online quiz due:</b> Perception	
	Mar 27 M	Lecture: Topic #8 - How do your conscious experiences arise from your brain?	
	Mar 29 W	Lab: <b>In-class quiz</b> - Perception	
WK 13		Action	Ch.8.2-8.5, 8.8, & 18.4
	Apr 2 S	<b>Online quiz due:</b> Action	
	Apr 3 M	Lecture: Topic #9 - How do your voluntary actions arise from your brain?	
	Apr 5 W	Lab: <b>In-class quiz</b> - Action	
WK 14		Memory	Ch. 11
	Apr 9 S	<b>Online quiz due:</b> Memory	
	Apr 10 M	Lecture: Topic #10 - How does your brain allow you to relive previous conscious experiences?	
	Apr 12 W	Lab: <b>In-class quiz</b> - Memory	
	TBA	Exam: <b>Final Exam</b>	

## 5. Basis of Student Assessment (Weighting)

(This section should be directly linked to the Intended Learning Outcomes.)

Course component	Weight
Participation:	2%
Online Quizzes:	5%
In-class Quizzes:	33%
Midterm Exam #1:	18%
Midterm Exam #2:	18%
Final Exam:	24%

## 6. Grading System

(No changes are to be made to this section unless the Approved Course Description has been forwarded through the Education Council of Camosun College for approval.)

### 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](http://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. (For these courses a final grade will be assigned to either the 3 <sup>rd</sup> course attempt or at the point of course completion.)
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](http://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