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|  | <p><b>School of Arts &amp; Science</b><br/> <b>PSYCHOLOGY DEPARTMENT</b><br/> <b>PSYC 215</b><br/> <b>Biological Psychology</b></p> <p><b>Winter 2009</b></p> |
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## COURSE OUTLINE

### 1. Instructor Information

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|-----|---------------|--|--|--|
| (a) | Instructor:   | John S. Conklin  |  |  |
| (b) | Office Hours: | See website: <a href="#">Conklin Web Site</a>                    |  |  |
| (c) | Location:     | F 350 C  |  |  |
| (d) | Phone:        | 250 370 3196   |  |  |
| (e) | Email:        | <a href="mailto:conklin@camosun.bc.ca">conklin@camosun.bc.ca</a> |  |  |
| (f) | Website:      | <a href="#">Conklin Web Site</a>                                 |  |  |

### 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

(a) Texts: Pinel, John. (2009: 7e). Biopsychology. Toronto: Allyn and Bacon.

4. **Course Content and Schedule** See course website in Desire2Learn

| WEEK | DATE   | TOPIC   | READING                                    | ASSIGNMENTS  |
|------|--------|---|--|--|
| 1    | Jan 5  | Lecture: Introduction to Course, Desire2Learn, Assignments, Textbook, Course Overview                         |  | Weekly Lab #1 due before Lab Jan 7.  |
| 1    | Jan 7  | First lab<br>Relaxed introductions/D2L / Course Outline, etc.<br>Weekly lab Ch1;<br>Weekly Practice Test Ch 1 | Pine Ch 1 Read before lecture Jan 12       | Practice Test Ch 1 : Due before lecture Jan 12<br>Weekly lab # 2 due before lab Jan 14             |
| 2    | Jan 12 | Lecture : Ch 1 Introduction   | Pinel Ch 2 & 3: Read before Lecture Jan 19 | -  |
| 2    | Jan 14 | Lab : Presentations of Weekly lab #2  | -  | -Practice Test Ch 2 & 3: due before lecture Jan 19<br>Weekly lab 3: Ch 2 & 3 Due before lab Jan 21 |
| 3    | Jan 19 | Lecture : Ch 2 & 3: Evolution, genetics, nervous system anatomy   | Pinel Chs 4 & 5 Read before Lecture Jan 26 | -  |
| 3    | Jan 21 | Weekly lab 3 Ch 2 & 3:  | -  | -Practice Test Ch 4 & 5: due before lecture Jan 26<br><br>Weekly lab 4 Ch 4 & 5: Due before lab    |

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|   |        |   |  | Jan 28   |
| 4 | Jan 26 | Lecture: Chs. 4 & 5<br>Synaptic Transmission<br>and Research<br>Methods                       | Pinel Ch 6 & 7:<br>Read before<br>Lecture Feb 2                          | -  |
| 4 | Jan 28 | Discussion of Weekly<br>lab 4 Chs. 4 & 5  | -  | Practice Test Ch 6<br>due before lecture<br>Feb 2<br>Weekly lab 5 AR due<br>before lab Feb 4 |
| 5 | Feb 2  | Lecture: Ch 6 Vision  | -  |  |
| 5 | Feb 4  | Seminar: <b>Article<br/>Review Due by<br/>Seminar (Place in<br/>Dropbox) Weekly<br/>lab 5</b> | -Chapter 8   | -Practice Test Ch 7<br>before Lecture Feb 9<br>Weekly lab 6 Ch 7<br>before lab Feb 11        |
| 6 | Feb 9  | Lecture Ch 7<br>Perception  | -  | -  |
| 6 | Feb 11 | Weekly lab 6 Ch 7   | -  | -Practice Test Ch 8<br>before lecture<br><br>Weekly lab 7                                    |
| 7 | Feb 16 | Lecture: Ch 8<br>Perception   | - Chapter 9  |  |
| 7 | Feb 18 | Weekly lab 7  | <b>-Midterm Exam<br/>in Seminar in<br/>computer lab<br/>Chapters 1-8</b> | -Weekly Practice Test<br>Ch 9 before lecture<br><br>Weekly lab 8 Mar 4                       |
| 8 | Feb 23 | Lecture Ch 9 + Review<br>for Midterm  | -Ch 10   | -  |
| 8 | Feb 25 | Midterm Exam in Lab<br>in Ewing Computer lab  |  | -Practice Test Ch 10<br>before lecture Mar 2<br>Weekly lab Ch 10<br>before lab               |

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| 9  | Mar 2  | Lecture: Ch 10 Brain Damage                                       | - Ch 11   |  |
| 9  | Mar 4  | Weekly lab 8  |   | -Practice Test Ch 11 before lecture<br>Weekly lab 9 Ch 11                    |
| 10 | Mar 9  | Lecture: Ch 11 Learning and memory                                | -Ch 13  | -  |
| 10 | Mar 11 | Weekly lab 9  | <b>-RESEARCH PAPER OUTLINE AND BIBLIOGRAPHY</b> | -Practice Test Ch 13 before lecture Nov 10<br>Weekly lab 10 Ch 13 before lab |
| 11 | Mar 16 | Lecture Ch 13 Hormones and Sex                                    | - Ch 15   | -  |
| 11 | Mar 18 | Weekly lab 10   |   | -Practice test Ch 15 before lecture<br>Weekly lab 11 Ch 15                   |
| 12 | Mar 23 | Lecture Ch 15 Drugs and Reward                                    | -Ch 16  | -  |
| 12 | Mar 25 | Weekly lab 11   |   | Practice Test Ch 16 before lecture<br>Weekly lab 12 Ch 16 before lab         |
| 13 | Mar 30 | Lecture: Ch 16 Language   | -   |  |
| 13 | Apr 1  | Weekly lab 12   | <b>--Research Papers Due in Seminar:</b>        | -Practice Test Ch 17 & 18 before lecture<br>Weekly lab Ch 17 & 18 before lab |
| 14 | Apr 6  | Lecture: Chs. 17 & 18 Emotions, stress and psychiatric disorders. | -   |  |
| 14 | Apr 8  | Lab 13 [Last day of classes] Review                               |   | -  |
|    |        | <b>Final Exam During Exam Week TBA</b>                            |   |  |

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**5. Basis of Student Assessment (Weighting)**

- (a) Weekly labs and practice tests: 20%**
- (b) Article Review: 10%**
- (c) Midterm Exam: 20%**
- (d) Research Paper: 25%**
- (e) Final Exam: 25%**

**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](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. <i>(For these courses a final grade will be assigned to either the 3<sup>d</sup> course attempt or at the point of course completion.)</i> |
| CW              | Compulsory Withdrawal: 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 on the College web site in the Policy Section.

[Details of weekly assignments, practice tests, article review and research paper will be discussed in class. There is also additional information in the course website.](#)