

Contact – PSYC 370 Teaching Team – Psyc370@queensu.ca

Text: Biopsychology (10th or 11th edition; Hard copy OR REVEL editions)
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 Allyn and Bacon

INTENDED STUDENT LEARNING OUTCOMES

To complete this course, students will demonstrate their ability to:

1. Outline the primary stages of neural development in humans.
2. Summarize current perspectives on various forms of brain damage, including neurodegenerative disorders
3. Summarize current theories on the biopsychology of eating, sleeping, sexual behaviour, and drug addiction.
4. Evaluate research findings relating to the biopsychology of motivation, cognition, and emotion.

EXAMS AND GRADING

DATE	EXAM	MATERIAL COVERED	% OF FINAL MARK
February 5	Midterm Exam I	Section 1- Chapters 9, 10 (general exam format, see below)	25%
March 11	Midterm Exam II	Section 2 - Chapters 12, 13, 14 (general exam format)	25%
	Final Exam	Section 3 - Chapters 15, 17, 18 (general exam format)	25%
		Chapters 9-18 (excluding Chapters 11 & 16) (multiple choice only)	25%

General exam format: Exams will consist of fill-in-the-blank, definitions, short answer and multiple-choice questions. Short answer and fill-in-the blank questions cover material that is delivered during lectures. Any material in the text is fair game for a multiple-choice question, regardless of whether was covered in lectures or not. Thus, **YOU ARE RESPONSIBLE FOR ALL OF TEXT MATERIAL FROM THE ASSIGNED CHAPTERS.**

NOTE: There are NO MAKEUP EXAMS FOR THE TWO MIDTERMS. If you have an excused absence from a midterm, the weight the missed midterm will be either 1) transferred to the final exam OR 2) 10% can be transferred to the other midterm and 15% to the final (this latter option must be chosen before you write the final). Contact me by email to let me know your choice. See the following page for further information on excused absences from an exam.

IF YOU HAVE AN EXCUSED ABSENCE FROM THE FINAL EXAM, THE DEPT. OF PSYCHOLOGY WILL BE HOLDING A MAKE-UP FINAL EXAM. PLEASE CONTACT THE UNDERGRADUATE CHAIRS OFFICE FOR FURTHER DETAILS.

OBTAINING AN EXCUSED ABSENCE FROM AN EXAM

If you are ill or facing other extenuating circumstance and cannot write one of the exams contact the Faculty of Art & Sciences portal: <http://www.queensu.ca/artsci/accommodations>. Do this prior to the exam - the faculty will notify me about your absence. You do not have to contact me, but you must register your absence at the accommodation’s portal (see below for further details).

Accommodation after the fact: Once a student has written an exam, they may not subsequently be granted accommodation such as being offered a second opportunity assignment or have it count for less than originally specified in the course syllabus (reweighted).

MARKING SCHEME

Psych 370 has a “**Numbers In, Letters Out**” marking scheme: You will be given a percentage (%) grade for the 1st and 2nd midterm exams (e.g., 92% and 89%). (Midterm marks will be posted on Moodle.) A percentage grade will be calculated for the final exam (e.g., 96%), and the 3 grades will be used to determine a weighted average (e.g., $[(.25 * 92) + (.25 * 89) + (.50 * 96)]$ = a weighted average of 93.25). The final % grade will then be converted to a letter grade (e.g., 93.25% = A+; ☺).

The final grade you receive for the course will be derived by converting your numerical course average to a letter grade, according to Queen’s Official Grade Conversion Scale.

Queen’s Official Grade Conversion Scale

<i>Grade</i>	<i>Numerical Course Average (Range)</i>
<i>A+</i>	<i>90-100</i>
<i>A</i>	<i>85-89</i>
<i>A-</i>	<i>80-84</i>
<i>B+</i>	<i>77-79</i>
<i>B</i>	<i>73-76</i>
<i>B-</i>	<i>70-72</i>
<i>C+</i>	<i>67-69</i>
<i>C</i>	<i>63-66</i>
<i>C-</i>	<i>60-62</i>
<i>D+</i>	<i>57-59</i>
<i>D</i>	<i>53-56</i>
<i>D-</i>	<i>50-52</i>
<i>F</i>	<i>49 and below</i>

SECTION 1 - BRAIN PLASTICITY			
WEEK 1	Monday, Jan 8	Course Orientation	
	Wednesday, Jan 10	Development of the Nervous System <ul style="list-style-type: none"> • Prenatal neurodevelopment 	Chapter 9
	Thursday, Jan 11	Development of the Nervous System <ul style="list-style-type: none"> • Postnatal development 	Chapter 9
WEEK 2	Monday, Jan 15	Development of the Nervous System <ul style="list-style-type: none"> • Disorders of neurodevelopment: Fetal Alcohol Syndrome 	Chapter 9
	Wednesday, Jan 17	Development of the Nervous System <ul style="list-style-type: none"> • Disorders of neurodevelopment: Autism 	Chapter 9
	Thursday, Jan 18	Brain Damage and Neuroplasticity <ul style="list-style-type: none"> • Causes of brain damage 	Chapter 10
WEEK 3	Monday, Jan 22	Brain Damage and Neuroplasticity <ul style="list-style-type: none"> • Rehabilitation and recovery – Part 1 	Chapter 10
	Wednesday, Jan 24	Brain Damage and Neuroplasticity <ul style="list-style-type: none"> • Rehabilitation and recovery – Part 2 	Chapter 10
	Thursday, Jan 25	Brain Damage and Neuroplasticity <ul style="list-style-type: none"> • Neurological diseases: Huntington's 	Chapter 10
WEEK 4	Monday, Jan 29	Brain Damage and Neuroplasticity <ul style="list-style-type: none"> • Neurological diseases: Parkinson's disease 	Chapter 10
	Wednesday, Jan 31	Brain Damage and Neuroplasticity <ul style="list-style-type: none"> • Neurological diseases: Alzheimer's 	Chapter 10
	Thursday, Feb 1	Brain Damage and Neuroplasticity <ul style="list-style-type: none"> • Neurological diseases: Epilepsy 	Chapter 10
WEEK 5	Monday, Feb 5	MIDTERM EXAM 1 -BRAIN PLASTICITY	Chapters 9/10

SECTION 2 – MOTIVATED BEHAVIOURS			
WEEK 5	Wednesday, Feb 7	Hunger, Eating, and Health: <ul style="list-style-type: none"> • Digestion, energy storage, and energy utilization 	Chapter 12
	Thursday, Feb 8	Hunger, Eating, and Health: <ul style="list-style-type: none"> • Neural regulation of hunger and satiety 	Chapter 12
WEEK 6	Monday, Feb 12	Hunger, Eating, and Health: <ul style="list-style-type: none"> • Understanding obesity 	Chapter 12
	Wednesday, Feb 14	Hunger, Eating, and Health: <ul style="list-style-type: none"> • Eating disorders: anorexia 	Chapter 12
	Thursday, Feb 15	Hormones and Sex <ul style="list-style-type: none"> • The neuroendocrine system 	Chapter 13:
(Feb 19 – 23) – FAMILY DAY & READING WEEK			
WEEK 7	Monday, Feb 26	Hormones and Sex <ul style="list-style-type: none"> • Hormones and sexual development 	Chapter 13
	Wednesday, Feb 28	Hormones and Sex <ul style="list-style-type: none"> • Neural regulation of sexual behavior 	Chapter 13
	Thursday, Feb 29	Sleep, Dreaming, and Circadian Rhythms: <ul style="list-style-type: none"> • Sleep and learning and memory 	Chapter 14
WEEK 8	Monday, March 4	Sleep, Dreaming, and Circadian Rhythms: <ul style="list-style-type: none"> • The circadian clock 	Chapter 14
	Wednesday, March 6	Sleep, Dreaming, and Circadian Rhythms: <ul style="list-style-type: none"> • Sleep and the glymphatic system 	Chapter 14
	Thursday, March 7	Sleep, Dreaming, and Circadian Rhythms: <ul style="list-style-type: none"> • Sleep disorders 	Chapter 14
WEEK 9	Monday, March 11	MIDTERM EXAM II – MOTIVATED BEHAVIOURS	Chapters 12/13/14

SECTION 3 – REWARD, ADDICTION, EMOTION AND PSYCHOPATHOLOGY			
WEEK 9	Wednesday, March 13	Drug Addiction and the Brain’s Reward Circuits <ul style="list-style-type: none"> Principles of drug action, tolerance and withdrawal 	Chapter 15
	Thursday, March 14	Drug Addiction and the Brain’s Reward Circuits <ul style="list-style-type: none"> Biopsychological theories of addiction 	Chapter 15
WEEK 10	Monday, March 18	Drug Addiction and the Brain’s Reward Circuits <ul style="list-style-type: none"> Chronic drug abuse-induced changes in brain 	Chapter 15
	Wednesday, March 20	Biopsychology of Emotion, Stress, and Health: <ul style="list-style-type: none"> The stress response; Stress and the hippocampus 	Chapter 17
	Thursday, March 21	Biopsychology of Emotion, Stress, and Health: <ul style="list-style-type: none"> Individual differences in sensitivity to stress 	Chapter 17
WEEK 11	Monday, March 25	Biopsychology of Emotion, Stress, and Health: <ul style="list-style-type: none"> Fear conditioning and the amygdala 	Chapter 17
	Wednesday, March 27	Biopsychology of Emotion, Stress, and Health: <ul style="list-style-type: none"> Emotions and facial expression Fear and the human amygdala 	Chapter 17
	Thursday, March 28	Biopsychology of Psychiatric Disorders: <ul style="list-style-type: none"> Neurobiology of depression – part 1 	Chapter 18
WEEK 12	Monday, April 1	Biopsychology of Psychiatric Disorders: <ul style="list-style-type: none"> Neurobiology of depression – part 2 	Chapter 18
	Wednesday, April 3	Biopsychology of Psychiatric Disorders: <ul style="list-style-type: none"> Schizophrenia: Part 1- neurodevelopmental theory 	Chapter 18
	Thursday, April 4	Biopsychology of Psychiatric Disorders: <ul style="list-style-type: none"> Schizophrenia: Part 2 - dopaminergic theory 	Chapter 18
WEEK 13	Monday, April 8	TBA	