

Physiological Psychology 830:313:06/07 - Fall 2012 (updated 8/17/12)

SECTION 06 M-W (4) 1:40-3:00 Pharm 115

SECTION 07 M-W (5) 3:20-4:40 Pharm 115

Professor David Vicario [syllabus here](#)
Office Hours: Weds 12:00-1:00pm or by appt. ...*Best to email in advance*
Office: Busch Psychology 329
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Teaching Asst. To be named
Office Hours: TBD*Please email your question in advance*
Office:
email:

Course Objectives: This course will provide an introduction to the anatomical structure, electrophysiology and neurochemistry of the brain. This basic information will then be used to explore the neural mechanisms of behavior, ranging from vision to movement to schizophrenia. Ultimately, all our sensations, thoughts, feelings and actions reflect brain processes. A better understanding of our own brains can thus help us to understand ourselves, and the sources of our behavior.

Exams: The course grade will be based on two midterm exams (each worth 25%) and a Final exam (worth 50%), consisting primarily of multiple-choice questions. The Final exam is weighted towards the later course material but is cumulative. Letter grades are not assigned based on absolute cut-offs, scores will be curved as appropriate.

Make-up exams will **NOT** be given except in cases of **documented inability to attend**, and when given, may consist of a term paper. Any issues with completed exams should be brought to the instructor's attention within two weeks of grading. Extra credit assignments will **NOT** be given under any circumstances. Exams will take place as scheduled in this syllabus. Last minute postponements will be announced **in person** in the examination room by a course instructor or a member of the Psychology Department.

General Policy: Please do not be afraid to contact me with any question about the course (email is best). Class attendance is expected. The relationship between the brain and behavior is a complex one and the course presents detailed information and concepts. Exams may include material presented in class that is not contained in the textbook or lecture slides. Students who miss more than a couple of classes in the semester should expect to do poorly. Reading assignments must be completed, preferably before each class. Exams may include material in the textbooks not fully presented in class. Class will start promptly; students are expected to be on time and not leave until the class is over. Continued lateness will be dealt with on a case-by-case basis.

Email addresses: From time to time, I may need to communicate important information to the class by email. I will use only the officially registered email address for each student (usually yourname@eden.rutgers.edu). If you do not check this address regularly, you will not receive my important messages. If you use another address, it is your responsibility to set up forwarding from your eden address.

Required text: Physiology of Behavior (11th ed.) by Neil R. Carlson

Physiological Psychology Syllabus (DRAFT SYLLABUS 8/17/2012 (subject to change))

Lecture notes are password protected and will be made available to those who attend.

<u>Sept 5 (Weds)</u> Physiological Psychology: brain and behavior	Chap 1	Lecture 1: Intro to Physio Psych
<u>Sept 10 (Mon)</u> From Behavior to Neuron	Chap 2	Lecture 2: From Behavior to Neuron
<u>Sept 12 (Weds)</u> Neuronal Structure & Function: electrochemical properties	Chap 2	Lecture 3: Electrochemical Properties of Neurons
<u>Sept 17</u> Neuronal Structure & Function: synaptic transmission	Chap 2	Lecture 4: Synaptic Transmission
<u>Sept 19</u> Neuroanatomy overview	Chap 3	Lecture 5: Neuroanatomy overview
<u>Sept 24</u> Neuroanatomy – function	Chap 3	Lecture 6: Neuroanatomy- function
<u>Sept 26</u> Psychopharmacology 1	Chap 4	Lecture 7: Psychopharmacology - Introduction

<u>Oct 1</u> Psychopharmacology 2	Chap 4	Lecture 8: Psychopharmacology 2
<u>Oct 3</u> Review for Midterm 1	Review Chaps1-4	Lecture 9: Review-Midterm1
<u>Oct 8</u> Midterm EXAM 1 (Chaps 1-4)	REVIEW	
<u>Oct 10</u> Research Method; Vision	Chap 5 (start 6)	Lecture 10: Research Methods; Vision
<u>Oct 15</u> Vision	Chap 6	Lecture 11: Vision
<u>Oct 17</u> Audition, somatosensation and other senses	Chap 7	Lecture 12: Audition and other senses
<u>Oct 22</u> Movement 1	Chap 8 1st half	Lecture 13: Movement I
<u>Oct 24</u> Movement 2	Chap 8 2nd half	Lecture 13: Movement continued
<u>Oct 29</u> Sleep / Rhythms	Chap 9	Lecture 14: Sleep
<u>Oct 31</u> Hormones / reproduction	Chap 10	Lecture 15: Hormones/Reproduction
<u>Nov 5</u> Emotions + Learning and Memory 1	Chap 11 (start 13)	Lecture16: Emotion + Lecture17: Learning & Memory 1
<u>Nov 7</u> Learning and Memory 1 + 2	Chap 13	Lecture18: Learning and Memory 2

Nov 12
Review for Midterm 2

Review Chaps 6-11

[Lecture 19: Mid2 Review](#)

Nov 14
Midterm EXAM 2(Chaps 6-11)

REVIEW

Nov 19
Relational Learning / Begin Speech Lecture
Nov 21 (No Class – Fri classes)

Chap 13 (cont), Chap 14

[Lecture20: Relational learning](#)

Nov 26
Speech and communication

Chap 14

[Lecture21: Speech/Communication](#)

Nov 28
Mental Illness 1 (start 23: part 2)

Chap 16 (17)

[Lecture 22: Mental Illness 1](#)

Dec 3
Mental Illness 2 (start 24: Drug Abuse)

Chap 17 (18)

[Lecture 23: Mental Illness 2](#)

Dec 5
Drug Abuse /Begin review

Chap 18 (Review Chaps 13,14,16-18)

[Lecture 24: Drug Abuse](#)

Dec 10
Begin Review for Final

Review Chaps 13,14,16-18)

[Lecture 25A: FINAL REVIEW](#)

Dec 12
REVIEW

Review ALL (Chaps 1-10)

[Lecture 25B: FINAL REVIEW](#)

FINAL EXAM

SECTION 06 date per University schedule

SECTION 07 date per University schedule