

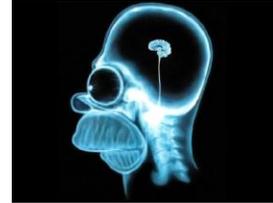
## Physiological Psychology

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Summer Session I (6/1/10-7/09/10); 2010

MTWTH 10:10-12:05 PM

[WL-AUD](#)



**Instructor:** Elyse Mallimo, M.S.

**Office Hours:** By appointment, Busch Campus Psychology Building, room 232

**Contact Information:** [emallimo@rci.rutgers.edu](mailto:emallimo@rci.rutgers.edu)

**Sakai Site:** <https://sakai.rutgers.edu>

**Required Text:** Physiology of Behavior, Neil R. Carlson, 10<sup>th</sup> Edition.

- ISBN-13: 978-0-205-66627-0
- ISBN-10: 0-205-66627-2

### *Course Description and Learning Goals:*

The aim of this course is to develop an understanding of the biological processes that underlie behavior. Therefore, our focus will be on the brain. We will begin with an introduction to the structure of the nervous system and how it functions at the neurochemical and electrophysiological level. Later in the course we will discuss how information from our environment is detected by our sensory systems (visual, auditory, olfactory, somatosensory, and gustatory) and how this information is sent to the brain. We will also examine how the brain uses the information that it obtains from our environment in order to generate useful and adaptive behaviors that are executed by our motor system. Finally, we will end the class with a discussion about various disease states (neurodegenerative diseases, affective disorders, anxiety disorders, schizophrenia, etc.) that can result from disruptions to neural communication and changes in the brain circuitry that underlie behavior.

### *General Course Structure and Requirements:*

- Lectures will adhere closely to the contents of the textbook. The topics for each lecture and corresponding reading assignment are outlined in the syllabus. This schedule is subject to change and any changes (regarding lecture material, exams, etc.) will be announced in class or will be posted on sakai.
- Attendance is mandatory as there will at times be information presented in the lecture that is not in the book. It is strongly suggested that you complete each reading assignment and come to me with any questions you may have regarding the material in the book or that is presented in lecture.
- My contact information is at the top of this page so feel free to shoot me an email or come to me after class. Office hours are by appointment **only** and can be scheduled via email or in person. However, please note that if we arrange to meet outside of class and, for whatever reason, you are unable to make it to our

scheduled appointment you **must** notify me in advance. Similarly, if I have to cancel office hours (or class) I will notify you in advance.

- I have added each of you to the class sakai site and any notifications that I have regarding the course will be posted there (see link at top of page). Also, slides for each lecture can be found under the Resources tab. I will try and post each lecture at least 1 day prior to class, as I realize it can be frustrating if the notes are not posted far enough in advance.

### ***Exams and Grading Scale:***

- There will be **3 non-cumulative** exams for this course. Exam dates are listed in the syllabus below. Exams will consist of multiple-choice questions *but* may also include **short answer** essays, labeling of diagrams, and/or construction of diagrams. I emphasize the phrase 'short answer' for a reason because students often write more than is necessary when responding to short answer essays. **Helpful Hint:** if you are having difficulty with a short answer question do not hesitate to draw a diagram! In fact, some short answer questions may require just that; a diagram.
- Regarding make up exams: No makeup exams will be given without prior approval and/or a note from your doctor explicitly stating that you are too ill to attend class. Makeup exams will follow the same format as regular exams; however, they will not be the same questions as those used for the original test. Also, makeup exams **must** be taken within one week of the missed exam.
- The grading scale is as follows: Each exam is worth a total of 100 points. There are 3 exams which means that you can earn a total of 300 points. To calculate your grade at the end of the course, simply add up the total amount of points you have earned on each exam and refer to the chart below.

A:  $\geq 270$  points  
B+: 255-267 points  
B: 240-252 points  
C+: 225-237 points  
C: 210-222 points  
D: 180-207 points  
F:  $\leq 177$  points

- Grades will not be curved and there will not be any extra credit. **However**, there will be opportunities in class to earn extra points. Specifically, I will be giving short quizzes throughout the course at the beginning of class. Each quiz will test your knowledge of the material that was discussed in previous lectures, and for completing each quiz you will receive 1 point. In total, there will be 6 quizzes which means that you can earn up to 6 extra points. These

points will be added to your final grade at the end of the course. While this may seem silly short quizzes will allow me to assess your level of understanding of the material as well as my effectiveness as an instructor. Therefore, these quizzes cannot hurt your grade, they can only help! Think of them as extra credit.

- All grades (quizzes and tests) will be posted on SAS gradebook. Please click on the following link to access your grades.

<https://secure.fas.rutgers.edu/apps/gradebook/>

- One final note: Remember when taking an exam to include your **Name AND Student ID** on both the **test form AND scantron**.

*Current Academic Integrity Policy:*

Students are expected to follow the [Rutgers Academic Integrity Code](#). Anyone who is caught cheating will get a zero for the exam and the Dean's office will be notified. Please make sure that all notes, books, and electronic devices (i.e., computers, cell phones, ipods, ipads, etc, etc.) are put away prior to the start of each exam.

**Lecture Topics & Reading Assignments (with page numbers if applicable)**

Tuesday	6/1/10	Introduction	Ch 1; pgs. 2-3, 10-14
Wednesday	6/2/10	Neuron Structure & Function	Ch 2; pgs. 29-41
Thursday	6/3/10	Neural Communication	Ch 2; pgs. 42-66
Monday	6/7/10	Central & Peripheral Nervous System, I	Ch 3; pgs. 69-82
Tuesday	6/8/10	Central & Peripheral Nervous System, II	Ch 3; pgs. 82-100
Wednesday	6/9/10	Psychopharmacology	Ch 4; All
Thursday	6/10/10	Review	
<b>Monday</b>	<b>6/14/10</b>	<b>EXAM 1; COVERS CH 1-4</b>	
Tuesday	6/15/10	Vision	Ch 6; pgs. TBA
Wednesday	6/16/10	Audition	Ch 7; pgs. 213-236
Thursday	6/17/10	Somatosensation	Ch 7; pgs. 237-250
Monday	6/21/10	Olfaction, Gustation	Ch 7; pgs. 251-260
Tuesday	6/22/10	Movement	Ch 8; All
Wednesday	6/23/10	Review	
<b>Thursday</b>	<b>6/24/10</b>	<b>EXAM 2; COVERS CH 6-8</b>	
Monday	6/25/10	Sleep; Memory Function, Disorders of Sleep	Ch 9; pgs 297-326
Tuesday	6/26/10	Stress, the HPA Axis & Anxiety Disorders	Ch 17; pgs. 587-592, 601-608
Wednesday	6/27/10	Schizophrenia & Affective Disorders	Ch 16; pgs. 556-580
Thursday	6/28/10	Learning & Memory	Ch 13; pgs. 441-453, 458-464,

Monday	7/5/10	Neurodegenerative & Autoimmune Diseases	Ch 15; pgs. 537-550
Tuesday	7/6/10	Psychoneuroimmunology (PNI)	Ch 17; 608-611
Wednesday	7/7/10	Review	
<b>Thursday</b>	<b>7/8/10</b>	<b>EXAM 3; COVERS CH 9, 13, 15, 16, 17 &amp; PNI</b>	

**Enjoy the rest of your summer!**