

# Physiological Psychology

01:830:313

Dr. Mark West

**Phone:** 848-445-8886

**Email:** [markwest@rutgers.edu](mailto:markwest@rutgers.edu)

**Office:** Busch Psychology Bldg. Room 225

**Office hours:** (starting Jan. 31) Mondays 1:40 to 3 pm - Zoom link will be sent 30 min beforehand.

**Course Website:** Canvas

*For technical help with Canvas, please visit <https://it.rutgers.edu/help-support>.*

**The course is starting out online, asynchronous, until further notice**

**Teaching Assistant:** Shayna O'Connor, by appointment [slo50@rutgers.edu](mailto:slo50@rutgers.edu)

[RU Learning Centers Remote Instruction Services](#)

[Set up your Zoom account](#)

[Using Zoom for education YouTube](#)

## REQUIRED TEXTBOOK

**Physiology of Behavior** by Neil Carlson, 12th edition. It's been in use for 3 years, so used versions should be available and inexpensive.

**Revel (optional)** is the textbook website. You get it if you purchase the e-book, both of which can then be accessed with a smart phone. Or Revel can be purchased separately, if you purchase a used textbook. Revel provides a study guide which includes some videos, teaching aids, practice test questions, and more. No students' activities of any kind on the Revel website will ever be monitored, so feel free to use the practice tests to reveal any weaknesses in your knowledge that you can strengthen before my exams.

Your Options:

1. Amazon \$20 <https://www.amazon.com/Physiology-Behavior-12-Neil-Carlson/dp/933258575X>

2. Or: <https://classcomplete.com/yhioshairtw> (I make no claim that this website is legit.)

ISBN-13: 978-0134080918

ISBN-10: 0134080912

Format: PDF

\* **Downloads Instantly. No waiting. No restrictions.**

\* **Includes Free Cloud Backup stored on our server.**

\* **Read on any device.**

3. Or: Purchase NEW textbook

Students can purchase directly from Pearson, where the cost is \$79.99. If students purchase from the bookstore, the net price of the access card is \$69.99 and then the bookstore will place a markup.

**\*\*Directions from the Pearson representative, specifically for our class\*\*:**

**Revel: Student Registration Directions for 830:313 Spring 2022**

To access Revel Physiology of Behavior, 12e, the course materials for 830:313: Physio Psych Spring 2022:

When you're ready, join the course at:

<https://console.pearson.com/enrollment/bfclk4>

If you need help, check out these Revel student resources:

<https://www.pearsonhighered.com/revel/students/support/>

1. Go to :<https://console.pearson.com>
2. Sign in to your Pearson Account or create one.
3. Redeem your access code or purchase instant access online.  
(Temporary access option for financial aid is also available.)

This link has a video walking you through the registration process.

<https://www.pearsonhighered.com/revel/students/registration/>

The link below has information on downloading the **mobile app to your phones** (many students love this and it's included with the Revel purchase):

<https://www.pearsonhighered.com/revel/students/mobile-app/>

Revel includes the ebook and is \$79.99 when purchased direct from Pearson (through the registration instructions above). Students can opt to purchase the loose leaf version after purchasing Revel for an additional \$20.00.

Learn more at [www.pearson.com](http://www.pearson.com) or [www.pearsonhighered.com](http://www.pearsonhighered.com)

### LEARNING GOALS

To understand:

- how a neuron generates an action potential
- that most drug effects on behavior involve altered neurotransmission at synapses
- how the major parts of the nervous system are connected (neural circuits)  
“Law of Specific Nerve Energies”
- how a few of the major systems work
- how neural circuits change as a function of learning

### GRADING & POLICIES:

**Exam scores will be the only determinants of your grade; no credit will be given for extra work.**

**Homework:**

- **Watch all lectures (narrated power points in Canvas Media Gallery) and study them**
- **Non-narrated power points are located in Canvas Files and Modules.**
- **Study the assigned readings (Learning Objectives) in the textbook**
- **Use Revel's teaching aids, such as pre-test and post-test questions – focus on what you missed (results are NOT “sent to Instructor”).**

**Exams:**

- **Six exams (open-book, open-notes) of equal weight will comprise multiple choice and diagram/essay questions. Each exam will cover the material since the preceding exam.**
- **The sixth (the last) exam will NOT be cumulative. No exam is scheduled during finals week.**
- **Your final grade will be determined from the average of your numeric scores on the six exams.**

- Final grades will be curved only if the distribution of these averages for this class is lower than a standard distribution.
- Each exam will last ONE HOUR but you will have a 24-hour period, 5pm Monday to 5pm Tuesday, in which to take it, on the Canvas “Tests and Quizzes” tab. That is, you may take the exam during the scheduled class meeting time on Tuesday if you wish.
- Once you start an exam, you will have one hour to finish it. Therefore, if you wait until Tuesday, you must start at least an hour before 5pm in order to have a full hour to take the exam.
- Exam results will be posted after the close of the 24-hour period.

Missing an exam will not be excused, except in an emergency (you must provide written documentation, such as a physician's note); and must notify the professor on or before the exam date. *(Make-up exams are difficult.)*

The best ways to succeed are to:

- read each assignment before watching the corresponding lecture in Canvas Media Gallery
- take notes during my lectures. It may be helpful to print out the power point files first and then take notes on your printout
- ask questions during office hours
- study with classmates
- communicate with fellow students in our Canvas Chat Room

I present material so you can understand it. My exam questions test your understanding of concepts, such as relationships illustrated in graphs that have been presented in my lectures. I do not ask questions involving rote memorization of definitions, dates, scientists’ names, etc.

It is important to keep on schedule with reading assignments because of the amount of material, and because some chapters are more difficult than others. This will be an in-depth, difficult course aimed at the highest undergraduate level.

You can make the exams seem easy and get good scores if you seriously study and do all of the above.

\*\*\*Academic Integrity: Ethical conduct is the obligation of all students and faculty. Any involvement with cheating will be reported to the Dean's Office and can result in expulsion from the University.\*\*\*

### SCHEDULE OF ASSIGNED READINGS:

Topic of Class Meeting	Assigned Reading: Learning Objectives (LO)	Important Figures in Carlson Text (some appear in Media Gallery narrated lectures and ppt files in Resources)
<i>Classes start Tue, Jan 18</i>		
Introduction	Ch 1 Read only paragraphs related to my Ch. 1 power point slides.	Figs. in Ch. 1 1.3
The Neuron	Ch. 2 LO 2.1, 2.2	Figs. in Ch. 2 2.3, 2.4, 2.6, 2.9

Synaptic Transmission	(Ch. 2 cont.) LO 2.10, 2.11, 2.12, 2.14, 2.16, 2.17	Figs. 2.21, 2.22, 2.24, 2.26, 2.27, 2.29, 2.30, 2.31
<b>EXAM 1</b> <b>Monday, Jan 31</b>	<b>Exam 1 will cover (in Media Gallery):</b> <b>Ch 1 parts 1, 2, 3</b> <b>Ch 2 parts 1, 4, 5</b>	
Neurophysiology	(Ch. 2 cont.) LO 2.5, 2.6, 2.7, 2.8, 2.9, 2.13, 2.15	Figs. 2.15, 2.16, 2.17, 2.18, 2.20, 2.28
Neuroanatomy <a href="#">Get Handout #1 at Files \ Worksheets Handouts (required list of structures to identify in Exam 2)</a>	Ch. 3 LO 3.7, 3.8, 3.9, 3.10, 3.11, 3.12, 3.13 (ignore neuroanatomical terms that are not mentioned in lecture)	Figs in Ch. 3 3.13, 3.14c, 3.15, 3.27, 3.29 All figures in power point file
<b>EXAM 2</b> <b>Monday, Feb. 21</b>	<b>Exam 2 will cover (in Media Gallery):</b> <b>Ch 2 parts 2, 3, 6</b> <b>Ch 3 all parts (1 through 5)</b>	
Psychopharmacology <a href="#">Get Pharmacology Handout (required) at Files \ Worksheets Handouts and use Tables 4.2, 4.3, 4.5, and 4.6 to help you fill out the handout</a>	Ch. 4 LO: 4.1, 4.2, 4.3, 4.4, 4.6 through 4.13 Ch. 16 LO: 16.1, 16.2, 16.5, “Atypical antipsychotics” in LO 16.6	Figs in Ch. 4 4.3, 4.4, 4.5, 4.7, 4.8, 4.9, 4.10, 4.12, 4.14, 4.16, 4.17, 4.18, 4.19, Table 4.1 Figs in Ch. 16 16.1, 16.2, 16.3, 16.4, 16.7, 16.8, 16.9, 16.13
Psychopharmacology (cont.)	<a href="#">YouTube film: The Case of the Frozen Addict</a>  Exam 3 will include questions on film.	
Visual System	Ch. 6 LO: 6.1, 6.4, 6.8, 6.21	Figs in Ch. 6 6.6, 6.8, 6.10, 6.16, 6.17, 6.35,
<b>EXAM 3</b> <b>Monday, Mar. 7</b>	<b>Exam 3 will cover (in Media Gallery):</b> <b>Ch 4 all parts (1 through 8)</b> <b>Ch 6 all parts (1 through 4)</b>	
Auditory, Somatosensory, Vestibular Systems	Ch. 7 LO: 7.1, 7.4, 7.5, 7.6, 7.13, 7.16	Figs in Ch. 7 7.1, 7.2, 7.5, 7.7, 7.8, 7.22, 7.23, Table 2
Motor System	Ch. 8 LO: 8.4, 8.7	Figs in Ch. 8 8.6, 8.8, 8.13, 8.14 Fig. 2.12 (Ch. 2)
<b>EXAM 4</b> <b>Monday, Mar. 28</b>	<b>Exam 4 will cover (in Media Gallery):</b> <b>Ch 7 all parts (1 through 3)</b> <b>Ch 8 all parts (1 through 4)</b>	
Emotion	Ch. 11 LO: 11.1, 11.2, 11.3 Ch. 3: re-read “Hypothalamus” at end of LO 3.7	Figs in Ch. 11 Fig. 11.2, 11.3, 11.4, 11.5 re-visit Fig 3.22 in Ch. 3
Stress disorders Psychoneuroimmunology	Ch. 17 LO: 17.1, 17.2, 17.3, 17.4 (no need to memorize immune cell types), 17.5, 17.7	Figs in Ch. 17 17.1, 17.2, 17.3, 17.4, 17.10, 17.12
<b>EXAM 5</b> <b>Monday, Apr. 11</b>	<b>Exam 5 will cover (in Media Gallery):</b> <b>Ch 11 all parts (1 through 5)</b> <b>Ch 17 “all”</b>	
Learning & Memory	Ch. 13 LO: 13.1, 13.3, 13.4, 13.9, Amnesia, 13.11, 13.12, 13.15, LTP, 13.16, 13.17, 13.18	Figs in Ch. 13 13.2, 13.3, 13.5, 13.7, 13.8, 13.11, 13.12, 13.13, 13.20, 13.26, 13.27, 13.28, 13.29, 13.30, 13.31, 13.32, 13.33, 13.34 Table 13.1, 13.2

Drug Abuse	Ch. 18 LO: (Pg. 590, 591), 18.1, 18.2, 18.7	Figs in Ch. 18 18.1, 18.2, 18.4, 18.3, 18.15, 18.16, 18.22 Table 18.1, 18.3
<b><i>EXAM 6</i></b> <b><i>Monday, May 2</i></b>	<b>Exam 6 will cover (in Media Gallery):</b> <b>Ch 13 all parts (1 through 7)</b> <b>Ch 13-18 all parts (1 through 4)</b>	
<b><i>No exam during Finals week</i></b>		