

Physiological Psychology 830:313

Fall 2017

Lectures:

Tues/Thurs 3:20-4:40pm SEC 111

Course Instructor:

Dr. Trishala Parthasarathi

Office: Tillett 333

Email: trishala@rutgers.edu

Office Hours: Thursdays 1:00-2:30pm

Course Objectives:

After completing this course, students should know the following:

- How a neuron generates an action potential
- Mechanisms of synaptic transmission
- Anatomical distinctions of the nervous system
- How the major systems work (audition, vision, chemical senses, motor)
- How neural circuits change as a function of learning
- How different systems contribute to motivated behaviors and higher mental processes

Textbook:

Physiology of Behavior by Neil Carlson, 12th edition

ISBN: 0314320824

Course Website:

Lecture slides, announcements, and any other course material will be posted on Sakai.

Office Hours/Email Policy:

You are encouraged to attend office hours if you have any questions about the content or structure of the course. Feel free to e-mail me if you have a question that can be answered in a few sentences. I will try to answer emails within 24-48 hours.

Attendance:

Students are expected to attend all classes. While attendance is not mandatory, there will be material covered in lecture that is not included in the reading. In addition, quiz questions will be presented only during lectures. Do not mistake not taking attendance as not caring whether or not you attend. Exams will test your understanding of the material as explained in lecture, and there is usually a strong correlation between class attendance and grades.

Exams:

There will be three multiple choice exams using scantron forms. You will need to bring an appropriate pencil. The first two exams will each be worth 25% of your grade. The final exam will consist of 2/3 new material, and 1/3 old material from the past 2 exams and will be worth 40% of your grade.

Makeup Exams:

Students are expected to take the exams the day they are scheduled. Missing exams will **not** be excused, except in an emergency (written documentation must be provided). If you have a

conflict with any of the exam dates listed below, please let me know within the first week of class or as soon as possible. Other instances of missing exams unexpectedly will be considered on a case-by-case basis. There is no guarantee that the make-up exam will be in the same format as the original.

Quizzes:

There will be 10 unannounced multiple choice or fill-in-the-blank quizzes during the course of the semester based on the textbook readings. I will only present the quiz questions in class, and you will have to provide the answers on Sakai before the next class meeting. This will be worth 10% of your grade. The questions are easily answerable through the textbook, and are meant to keep you on track with the readings as well as provide motivation for attending class.

Grading:

Exam 1 will comprise 25% of your grade, Exam 2 will comprise 25% of your grade, and the final exam will comprise 40% of your grade. Grading cutoffs is as follows:

A: 90-100 B+: 87-89.9 B: 79-86.9 C+: 75-78.9 C: 65-74.9 D: 50-64.9 F: <50

Extra Credit:

There will be opportunities for extra credit. You can watch a 30-45 minute TED-talk or video related to a topic discussed in class. You will need to write two paragraphs, one that summarizes the video and another describing how the video relates to class material and includes additional questions you may have on the research topic. The video will have to be approved by me ahead of time. This will be worth 2 points to your total grade. There may be other extra credit opportunities I may announce during the semester. The last date to submit any extra credit will be by **Friday 12/8**.

Readings:

You should read the assigned portions of the textbook **prior** to class. The lectures will align closely to the textbook at certain points in the course, and diverge from the text at other points. The lecture is considered primary, and the textbook is meant to supplement your understanding of the material.

Technology:

Electronic devices should not be audible during class. Please turn smartphones and tablets on airplane mode if possible. Laptop computers should not be used for sending messages or surfing the web to keep you and those around you from being distracted.

Academic Integrity Policy:

Each student is expected to abide by the Rutgers University Academic Integrity Policy (<http://academicintegrity.rutgers.edu/academic-integrity-policy/>). Any involvement of cheating will be reported. Penalty for violating the policy can result in failure of the course and University disciplinary action.

Students with Disabilities:

Students with disabilities requesting accommodations must follow the procedures outlined at <https://ods.rutgers.edu/students/registration-form>

Class schedule: Please see below for the class schedule. The dates of the exams are final, but the rest of the schedule is subject to change. This will be updated throughout the semester as necessary, so please check Sakai accordingly.

Date	Topics	Readings
Tues 9/5	Introduction	Ch 1
Thurs 9/7	The Neuron	Ch 2
Tues 9/12	Synaptic Transmission	Ch 2
Thurs 9/14	Neurophysiology	Ch 2
Tues 9/19	Neuroanatomy	Ch 3
Thurs 9/21	Neuroanatomy	Ch 3
Tues 9/26	Psychopharmacology	Ch 4
Thurs 9/28	Psychopharmacology	Ch 4
Tues 10/3	Review	Chs 1-4
Thurs 10/5	EXAM 1	
Tues 10/10	Vision	Ch 6
Thurs 10/12	Vision	Ch 6
Tues 10/17	Auditory/Vestibular System	Ch 7
Thurs 10/19	NO CLASS	
Tues 10/24	Somatosensation/Gustation/Olfaction	Ch 7
Thurs 10/26	Motor System	Ch 8
Tues 10/31	Motor System	Ch 8
Thurs 11/2	Sleep	Ch 9
Tues 11/7	Review	Chs 6-9
Thurs 11/9	EXAM 2	
Tues 11/14	Emotion	Ch 11
Thurs 11/16	Learning and Memory	Ch 13
Tues 11/21 (Thur schedule)	Learning and Memory	Ch 13
Thurs 11/23	NO CLASS	
Tues 11/28	Human Communication	Ch 12
Thurs 11/30	Schizophrenia/Affective Disorders	Ch 16
Tues 12/5	Anxiety Disorders	Ch 17
Thurs 12/7	Drug Abuse	Ch 18
Tues 12/12	Review	Chs 11-13, 16-18
Fri 12/15	FINAL EXAM – 8:00am	