

# Psychology 303 – Foundations of Physiological Psychology

Fall 2020, Monday and Wednesday, 10:00-11:15am

Synchronous Remote Instruction

**Instructor:** XXXXX

Email: XXXXX@unlv.edu

Phone: 702-895-XXXX

Office: CLB1 XXX

Office Hours: By appointment – please email me to set up a meeting

Lab: XXXX

**Teaching Assistant (TA):** XXXXX

TA Email: XXXXX@unlv.nevada.edu

***Although we have had to move to remote instruction we are here for you! Please email either your instructor or the TA with your questions to get the quickest response. We are more than happy to set online meetings with you to discuss as needed!***

**Textbook:** *An Introduction to Brain and Behavior*

Kolb, Whishaw, Teskey

6th Edition, 2016, Worth Publishers

ISBN:9781319107376

eBook ISBN:9781319152482

**Objective of the Course:** To provide an overview or introduction to neuroscience by exploring the physiological basis of psychology (biological basis of behavior). Students will first learn about the fundamental elements of the nervous system (brain regions, cells of the brain and synaptic connections) and their functions. Subsequent lectures and readings will integrate these elements into the systems responsible for basic behaviors, and also into the pathology underlying common disorders of brain function.

**Learning Outcomes:** When students complete the course they should achieve the following learning outcomes. These learning outcomes will be assessed on quizzes and exams.

1. Describe and identify the structure and function of the nervous system.
2. Convey an elementary understanding of the physiological basis of behavior.
3. Identify and describe how physiological topics are researched.

4. Relate principles of cell physiology to psychological behaviors such as learning and memory.
5. Critically review some aspect of research in physiological psychology or psychophysiology.

**Grading and Exams:**

1. There will be weekly quizzes of which you keep your best 10 scores. These will count 10% toward your final grade. Quizzes will be online via WebCampus, available during a **specified time period**.

2. There will be three exams taken online via WebCampus, each worth 30% of your final grade. The exams are not cumulative. Exams will deal only with material covered in posted lectures. The majority of this material is also covered in the recommended textbook readings (see below), but some details discussed in lecture do not appear in the text, so it benefits you greatly to listen to the lectures. These exams will be available during a **specified time period**.

3. I will also provide extra credit on each test (up to 5% if you show engagement with the online material and complete all quizzes), so it is possible to receive more than 100% in this class!

Course grades are determined by calculating the percentage of points earned – this calculation involves adding up the total points earned and dividing by the total number of possible points. Quizzes will make up 10% of the points and each of the three exams will make up 30% of the points. Final grades are based on the following scale:

- A: 90% & Higher
- B: 80-89%
- C: 70-79%
- D: 60-69%
- F: 59% & Lower

**Course Schedule:** The following table is a tentative timeline of the course topics and assigned reading from the textbook. The page numbers below reflect the sections of the book that cover the topics of discussion, for best preparation **I recommend reading the material before class**.

DATE	TOPIC(S)	READING (pages)
M Aug 24	Objectives & Expectations	1-13

W Aug 26	Origins and Evolution of Behavior and Brain	1-30
M Aug 31	Functional Anatomy of the Brain and Nervous System	31-71
W Sept 2	Functional Anatomy of the Brain and Nervous System	31-71
M Sept 7	NO CLASS – LABOR DAY	
W Sept 9	Cells of the Nervous System: Neurons and Glia	73-85
M Sept 14	Structural and Functional Properties of Neuronal Cells	85-106
W Sept 16	Communication Between Neurons: Potentials & Synapses	107-136
M Sept 21	Communication Between Neurons: Potentials & Synapses	137-147
W Sept 23	EXAM Section 1	
M Sept 28	Chemical Signals in the Brain: Neurotransmitters	147-169
W Sept 30	Chemical Signals in the Brain: Neurotransmitters	147-169
M Oct 5	Drugs and Behavior	171-200
W Oct 7	Drugs and Behavior	171-200
M Oct 12	Hormones and Behavior	200-208
W Oct 14	Motivation and Emotion	393-435
M Oct 19	Sleep, Dreaming and Circadian Rhythms	437-474
W Oct 21	Learning and Memory	475-514
M Oct 26	Learning and Memory	475-514
W Oct 28	EXAM Section 2	
M Nov 2	The Visual System	281-317
W Nov 4	The Visual System	281-317
M Nov 9	The Auditory System, Language & Music	319-350
W Nov 11	The Auditory System, Language & Music	319-350
M Nov 16	The Somatosensory and Vestibular Systems	375-392
W Nov 18	Control of Movement	351-374
M Nov 23	Neurodevelopment	243-280

W Nov 25	Psychiatric Disorders	243-280
M Nov 30	Acute Brain Damage and Neurodegenerative Disorders	566-571
W Dec 2	Study / Review	571-592
Exam Week	EXAM Section 3	

## UNIVERSITY POLICIES

### Public Health Directives

Face coverings are mandatory for all faculty and students in the classroom. Students must follow all active UNLV public health directives while enrolled in this class. UNLV public health directives are found at <https://www.unlv.edu/coronavirus/health-requirements>. Students who do not comply with these directives may be asked to leave the classroom. Refusal to follow the guidelines may result in further disciplinary action according to the UNLV Code of Student Conduct, [https://www.unlv.edu/sites/default/files/page\\_files/27/StudentConduct-Code.pdf](https://www.unlv.edu/sites/default/files/page_files/27/StudentConduct-Code.pdf), including being administratively withdrawn from the course.

### Academic Misconduct

Academic integrity is a legitimate concern for every member of the University community. We all share in upholding the fundamental values of honesty, trust, respect, fairness, responsibility, and professionalism. By choosing to join the UNLV community, students accept the expectations of the Student Academic Misconduct Policy, and are encouraged to always take the ethical path whenever faced with choices. Students enrolling at UNLV assume the obligation to conduct themselves in a manner compatible with UNLV's educational mission. An example of academic misconduct is plagiarism. Plagiarism is using the words or ideas of another person, from the Internet or any other source without proper citation of the source(s). See the Student Conduct Code, <https://www.unlv.edu/studentconduct/student-conduct>.

### Auditing Classes

Auditing a course allows a student to continue attending the lectures and/or laboratories and discussion sessions associated with the course, but the student will not

earn a grade for any component of the course. Students who audit a course receive the same educational experience as students taking the course for a grade, but will be excused from exams, assessments, and other evaluative measures that serve the primary purpose of assigning a grade.

### **Classroom Conduct**

Students have a responsibility to conduct themselves in class and in the libraries in ways that do not interfere with the rights of other students to learn, or of instructors to teach. Use of electronic devices such as pagers, cellular phones, or recording devices, or potentially disruptive devices or activities are only permitted with the prior explicit consent of the instructor. The instructor may rescind permission at any time during the class. If a student does not comply with established requirements or obstructs the functioning of the class, the instructor may initiate an administrative withdrawal of the student from the course.

### **Copyright**

The University requires all members of the University Community to familiarize themselves with, and to follow copyright and fair use requirements. You are individually and solely responsible for violations of copyright and fair use laws. The University will neither protect nor defend you, nor assume any responsibility for employee or student violations of fair use laws. Violations of copyright laws could subject you to federal and state civil penalties and criminal liability, as well as disciplinary action under University policies. Additional copyright policy information is available at <https://www.unlv.edu/provost/copyright>.

### **Disability Resource Center (DRC)**

The UNLV Disability Resource Center (SSC-A, Room 143, <https://www.unlv.edu/drc>, telephone 702-895- 0866) provides resources for students with disabilities. Students who believe that they may need academic Office of the Executive Vice President and Provost Box 451002 • 4505 South Maryland Parkway • Las Vegas, Nevada 89154-1002 (702) 895-3301 • FAX (702) 895-4054 • <http://www.unlv.edu/provost> 2 accommodations due to injury, disability, or due to pregnancy should contact the DRC as early as possible in the academic term. A Disabilities Specialist will discuss what options may be available to you. If you are registered with the UNLV Disability Resource Center, bring your Academic Accommodation Plan from the DRC to the instructor during office hours, so that you may work together to develop strategies for implementing the accommodations to meet both your needs and the requirements of the course. Any

information you provide is private and will be treated as such. To maintain the confidentiality of your request, please do not approach the instructor in front of others to discuss your accommodation needs.

## **Final Examinations**

The University requires that final exams given at the end of a course occur on the date and at the time specified in the Final Exam schedule. The Final Exam schedule is typically available at the start of the semester, and the classroom locations are available approximately one month before the end of the semester. See the Final Exam Schedule, <https://www.unlv.edu/registrar/calendars>.

## **Identity Verification in Online Courses**

All UNLV students must use their Campus-issued ACE ID and password to log in to WebCampus-Canvas. UNLV students enrolled in online or hybrid courses are expected to read and adhere to the Student Academic Misconduct Policy, <https://www.unlv.edu/studentconduct/misconduct/policy>, which states that “acting or attempting to act as a substitute for another, or using or attempting to use a substitute, in any academic evaluation or assignment” is a form of academic misconduct. Intentionally sharing ACE login credentials with another person may be considered an attempt to use a substitute, and could result in investigation and sanctions, as outlined in the Student Academic Misconduct Policy.

UNLV students enrolled in online courses are also expected to read and adhere to the Acceptable Use of Computing and Information Technology Resources Policy, <https://www.it.unlv.edu/policies/acceptable-usecomputing-and-information-technology-resources-policy>, which prohibits sharing university accounts with other persons without authorization.

To the greatest extent possible, all graded assignments and assessments in UNLV online courses should be hosted in WebCampus-Canvas or another UNLV-managed platform that requires ACE login credentials for access.

## **Incomplete Grades**

The grade of “I” (Incomplete) may be granted when a student has satisfactorily completed three-fourths of course work for that semester/session, but cannot complete the last part of the course for reason(s) beyond the student’s control and acceptable to the instructor, and the instructor believes that the student can finish the course without

repeating it. For undergraduate courses, the incomplete work must be made up before the end of the following regular semester. Graduate students receiving “I” grades in 500-, 600-, or 700-level courses have up to one calendar year to complete the work, at the discretion of the instructor. If course requirements are not completed within the period indicated, a grade of “F” will be recorded, and the student’s GPA will be adjusted accordingly. Students who are fulfilling an Incomplete grade do not register for the course, but make individual arrangements with the instructor who assigned the “I” grade.

## **Library Resources**

Librarians are available to consult with students on research needs, including developing research topics, finding information, and evaluating sources. To make an appointment with a subject expert for this class, please visit the Libraries’ Research Consultation website, <https://guides.library.unlv.edu/appointments/librarian>. You can also ask the library staff questions via chat Office of the Executive Vice President and Provost Box 451002 • 4505 South Maryland Parkway • Las Vegas, Nevada 89154-1002 (702) 895-3301 • FAX (702) 895-4054 • <http://www.unlv.edu/provost> 3 and text message at <https://ask.library.unlv.edu/>.

## **Missed Classwork**

Any student missing class, quizzes, examinations, or any other class or laboratory work because of observance of religious holidays will be given an opportunity during that semester to make up the missed work. The make-up opportunity will apply to the religious holiday absence only. It is the responsibility of the student to notify the instructor within the first 14 calendar days of the course for Fall and Spring courses (except for modular courses), or within the first 7 calendar days of the course for Summer and modular courses, of their intention to participate in religious holidays which do not fall on state holidays or periods of class recess. For additional information, please visit the Missed Work policy, under Registration Policies, on the Academic Policies webpage, <https://catalog.unlv.edu/content.php?catoid=29&navoid=7326>.

In accordance with the policy approved by the Faculty Senate regarding missed class time and assignments, students who represent UNLV in any official extracurricular activity will also have the opportunity to make up assignments, provided that the student provides official written notification to the instructor no less than one week prior to the missed class(es).

The spirit and intent of the policy for missed classwork is to offer fair and equitable

assessment opportunities to all students, including those representing the University in extracurricular activities. Instructors should consider, for example, that in courses which offer a “Drop one” option for the lowest assignment, quiz, or exam, assigning the student a grade of zero for an excused absence for extracurricular activity is both contrary to the intent of the Faculty Senate’s policy, and an infringement on the student’s right to complete all work for the course.

This policy will not apply in the event that completing the assignment or administering the examination at an alternate time would impose an undue hardship on the instructor or the University that could be reasonably avoided. There should be a good faith effort by both the instructor and the student to agree to a reasonable resolution. When disagreements regarding this policy arise, decisions can be appealed to the Department Chair/School Director, College/School Dean, and/or the Faculty Senate Academic Standards Committee.

For purposes of definition, extracurricular activities may include, but are not limited to: academic recruitment activities, competitive intercollegiate athletics, fine arts activities, liberal arts competitions, science and engineering competitions, and any other event or activity sanctioned by a College/School Dean, and/or by the Executive Vice President and Provost.

## **Rebelmail**

Rebelmail is UNLV’s official email system for students and by University policy, instructors and staff should only send emails to students’ Rebelmail accounts. Rebelmail is one of the primary ways in which students receive official University communications, information about deadlines, major Campus events, and announcements. All UNLV students receive a Rebelmail account after they have been admitted to the University. Emailing within WebCampus-Canvas is also acceptable.

## **Tutoring and Coaching**

The Academic Success Center (ASC) provides tutoring, academic success coaching, and other academic assistance for all UNLV undergraduate students. For information regarding tutoring subjects, tutoring times, and other ASC programs and services, please visit the ASC website, <https://www.unlv.edu/asc>, or call 702- 895-3177. The ASC building is located across from the Student Services Complex (SSC). Academic success coaching is located on the second floor of SSC A, Room 254. Drop-in tutoring is located on the second floor of the Lied Library, and on the second floor of the College of Engineering building (TBE A 207). Office of the Executive Vice President and Provost Box

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### **UNLV Writing Center**

One-on-one or small group assistance with writing is available free of charge to UNLV students at the Writing Center, <https://writingcenter.unlv.edu/>, located in the Central Desert Complex, Building 3, Room 301 (CDC 3–301). Walk-in consultations are sometimes available, but students with appointments receive priority assistance. Students may make appointments in person or by calling the Center, telephone 702-895-3908. Students are requested to bring to their appointments their Rebel ID Card, a copy of the instructions for their assignment, and two copies of any writing they have completed on their assignment.

### **Diversity Statement**

As an institution of higher learning, UNLV represents a rich diversity of human beings among its faculty, staff, and students, and is committed to aspiring to maintain a Campus environment that values that diversity. Accordingly, the University supports understanding and appreciation of all members of its community, regardless of race, sex, age, color, national origin, ethnicity, creed, religion, disability, sexual orientation, gender, gender identity, marital status, pregnancy, genetic information, veteran status, or political affiliation. Please see University Statements and Compliance, <https://www.unlv.edu/about/statements-compliance>.

A successful learning experience requires mutual respect and trust between the students and the instructor. Accordingly, the instructor asks that students be willing to listen to one another's points of view, acknowledging that there may be disagreements, keep discussion and comments on topic, and use first person, positive language when expressing their perspectives.