



WELCOME TO PSB-3002 PHYSIOLOGICAL PSYCHOLOGY!



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Office: 311H Psychology Building
Office Hours: Tuesday + Thursday 1:30-2:30pm
through Zoom; or by appointment
Class times: Tuesday Period 4 |
Thursday Periods 4-5

Course Description and Objectives

This course is an introductory survey of neuroscience with special relevance to psychology. An overall goal of this course is to gain appreciation of many of the physiological processes that result in functions of the brain. With an exposition of the tools and perspectives of neuroscience, we will consider how molecular pathways and neural systems produce psychological phenomena. Finally, we will study the application of neuroscience to understand normal brain development, optimize personal wellbeing, and treat disruptions of brain function.

Biological Sciences General Education Subject Area Objectives

Biological science courses provide instruction in the basic concepts, theories and terms of the scientific method in the context of the life sciences. Courses focus on major scientific developments and their impacts on society, science and the environment, and the relevant processes that govern biological systems. Students will formulate empirically-testable hypotheses derived from the study of living things, apply logical reasoning skills through scientific criticism and argument, and apply techniques of discovery and critical thinking to evaluate outcomes of experiments.

Required Material

Title: Physiology of Behavior, 13th Edition

Author: N.R. Carlson & M. A. Birkett

Publisher: Pearson

UF ALL ACCESS LINK: <https://www.bsd.ufl.edu/allaccess>

This textbook is required for the course and is provided at a reduced rate through the UF All Access program. Students must **OPT IN** to the UF All Access Materials within the first three weeks of the course to obtain the text at this rate. This will grant you instant access to the digital text. Students will be billed to their student accounts automatically and if they have Financial Aid available, it will automatically pay for these charges. A document with the instructions and FAQ for UF All Access is located on the Canvas site for this course. You do not need to purchase the REVEL accompaniment to the textbook.

Prerequisites

Students who register for this course are required to have an introductory course in Psychology (e.g., PSY2012). Fundamental knowledge in introductory Biology (e.g. BSC2010) is helpful, but not required. The course is self-contained - meaning that everything you need is contained within the course materials. Accordingly, this course is appropriate for students who have a broad interest in psychology, neuroscience, and the biological basis of behavior.

Participation & Attendance

Attendance will not be taken. However, material that is covered during the lecture will be included on the quizzes. Please contact me with appropriate documentation if you have a university approved excused absence. Requirements for class attendance and make-up quizzes, assignments, and other work in this course are consistent with university policies. <https://catalog.ufl.edu/UGRD/academic-regulations/attendance-policies/>.

Students with Special Needs

Students with disabilities who experience learning barriers and would like to request academic accommodations are encouraged to connect with the Disability Resource Center. It is important for students to share their accommodation letter with their instructor and discuss their access needs as early as possible in the semester. The Disability Resource Center is located in 001 Building 0020 (Reid Hall) <https://disability.ufl.edu/>. Their phone number is 352-392-8565.

Student Disclosures of Sexual Violence

UF fosters a campus free of sexual violence including sexual harassment, domestic violence, dating violence, stalking, and/or any form of sex or gender discrimination. If you disclose a personal experience as a UF student, the course instructor is required to notify the Title IX Coordinator by completing the report form available at <https://titleix.ufl.edu/report-an-issue/>, emailing titleix@ad.ufl.edu or calling (352) 273-1094. Feel comfortable coming to me with any issues.

Grading Scale

| Assignment | Points |
|--|------------|
| Unit Quizzes (4 quizzes, 33 points each) | 132 |
| Out of class assignments (3 assignments, 20 points each) | 60 |
| Research Requirement | 8 |
| Total | 200 |

| Grade | Scale | Grade | Scale |
|-------|---------|-------|--------|
| A | 93-100% | C | 73-76% |
| A- | 90-92% | C- | 70-72% |
| B+ | 87-89% | D+ | 67-69% |
| B | 83-86% | D | 63-66% |
| B- | 80-82% | D- | 60-62% |
| C+ | 77-79% | E | <60% |

Note: Total points with a decimal value equal to or greater than .50 will be rounded to the next number. A minimum grade of C is required for general education credit. For information on UF grading policies, see <https://catalog.ufl.edu/UGRD/academic-regulations/grades-grading-policies/>. **PLEASE DO NOT ASK ME TO GIVE YOU POINTS.**

Assessment

You will be tested on course material via 4 quizzes during class time. The 4 quizzes will consist of 33 questions and each is worth 33 points. You will also have 3 out-of-class assignments, each worth 20 points. Make-up work will only be allowed for quizzes with valid excuse and documentation (e.g., note from doctor, proof of conference attendance). Additionally, 8 points of your final grade is earned through participation in the psychology research requirement (see Research Requirement for more information). You will need to bring an official photo ID (Gator1, driver's license) to take the quizzes. You will be required to display the ID on your desk during the quiz. You will also need a #2 pencil to take quizzes. Note – If you arrive late for a quiz, you may be refused. If any student has completed the quiz and left, you will not be permitted to write the quiz.

Out of class assignments

There are **three** out of class assignments due throughout the semester, each worth 20 points. There are three different assignments to choose from for each due-date (9 total assignment options). Select **ONE** of the 3 assignments per due-date cluster to complete. Assignments will not be accepted late. You can submit them at any point during the semester, prior to their due-date. These assignments have been designed to help you learn skills and to apply the text material more broadly. I am happy to help you on these assignments, come to office hours and we can talk through any questions or confusion! I will also set aside class time to discuss each assignment when we cover its corresponding chapter. See canvas for rubrics and expectations.

| Assignment # and Due Date | Assignment Options |
|--|--|
| Assignment 1 – Due February 17 th , 11:59pm to Canvas | Ethical Use of Animals in Neuroscience Research; Neurotransmission; Methods of Neuroscience Research |
| Assignment 2 – Due March 10 th , 11:59pm to Canvas | Visual Sensation and Perception; Neurobiology of Sleep and Biological Rhythms; Neurobiology of Emotion |
| Assignment 3 – Due April 14 th , 11:59pm to Canvas | Neurobiology of Ingestive Behavior; Neurobiology of Learning and Memory; Developing Nervous System |

Research Requirement

Eight points (4%) of your final grade in the course involves the completion of a research requirement. The same research participation requirement as in the General Psychology course has been extended to all 3000 level psychology courses. You will have the option to participate in research experiments through the SONA platform or to complete critical analysis papers. Please see the Research Requirements tab in the “Start here” module of canvas for more information.

Late Work

Late work will not be accepted unless there is an extreme situation (e.g., hospitalization, family death, etc.). I will not accept late assignments as you have weeks to complete them. Do not wait until the last minute!

Policy for Disputing a Grade

You will have one week (including weekends and holidays) after any course material grade has been posted to dispute your grade. The exception will be the last quiz because there won't be enough time to complete disputes and turn grades in. Disputes will NOT be accepted after that date.

UF Honor Code

I am not willing to give a passing grade to those who do not abide by the UF honor code. Any student who cheats or helps another student cheat will receive an E (Fail) in this class. When students enroll at the university, they commit themselves to the standard drafted and enacted by students.

Preamble: In adopting this honor code, the students of the University of Florida recognize that academic honesty and integrity are fundamental values of the university community. Students who enroll at the university commit to holding themselves and their peers to the high standard of honor required by the honor code. Any individual who becomes aware of a violation of the honor code is bound by honor to take corrective action. The quality of a University of Florida education is dependent upon community acceptance and enforcement of the honor code.

Honor Pledge: We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honesty and integrity by abiding by the Honor Code. On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied:

"On my honor, I have neither given nor received unauthorized aid in doing this assignment."

It should be clear that academic dishonesty, such as cheating, is NOT tolerated at the University of Florida. Cheating is defined in the University Handbook, and it is the student's responsibility to be

familiar with its many forms (including plagiarism). If there is a suspected academic honesty violation, the Student Honor Code Procedures will be followed. CHEATING WILL NOT BE TOLERATED.

In-Class Recordings

Students are allowed to record video or audio of class lectures. However, the purposes for which these recordings may be used are strictly controlled. The only allowable purposes are (1) for personal educational use, (2) in connection with a complaint to the university, or (3) as evidence in, or in preparation for, a criminal or civil proceeding. All other purposes are prohibited. Specifically, students may not publish recorded lectures without the written consent of the instructor.

Publication without permission of the instructor is prohibited. To “publish” means to share, transmit, circulate, distribute, or provide access to a recording, regardless of format or medium, to another person (or persons), including but not limited to another student within the same class section. Additionally, a recording, or transcript of a recording, is considered published if it is posted on or uploaded to, in whole or in part, any media platform, including but not limited to social media, book, magazine, newspaper, leaflet, or third party note/tutoring services. A student who publishes a recording without written consent may be subject to a civil cause of action instituted by a person injured by the publication and/or discipline under UF Regulation 4.040 Student Honor Code and Student Conduct Code.

Online Evaluation Process

You are expected to complete an evaluation at the end of the semester. Evaluations can be located via GatorEvals. Students will be notified when the evaluation period opens, and can complete evaluations through the email they receive from GatorEvals, in their Canvas course menu under GatorEvals, or via <https://ufl.bluera.com/ufl/>. Summaries of course evaluation results are available to students at <https://gatorevals.aa.ufl.edu/public-results/>.

Campus Resources

Health and Wellness

- **U Matter, We Care:** If you or a friend is in distress, please contact umatter@ufl.edu or 352-392-1575 so that a team member can reach out to the student.
- **Counseling and Wellness Center:** <http://www.counseling.ufl.edu/cwc/Default.aspx>, 352- 392-1575;
- **Student Health Care Center:** 352-392-1161 for 24/7 information to help you find the care you need
- **University Police Department:** 392-1111 or 9-1-1 for emergencies, <http://www.police.ufl.edu/>.
- **Sexual Assault Recovery Services (SARS):** Student Health Care Center, 352- 392-1161
- **UF Health Shands Emergency Room/ Trauma Center:** For immediate medical care, call 3522733-0111 or go to the emergency room at 1515 Archer Road, Gainesville, FL 32608

Academic and Other Student Resources

- **Canvas technical support:** 352-392-4357 (select option 2) or e-mail to Learning-support@ufl.edu. <https://lss.at.ufl.edu/help.shtml>.
- **Career Resource Center:** Reitz Union, 392-1601. Career assistance and counseling. <http://www.crc.ufl.edu/>
- **Library Support:** <http://cms.uflib.ufl.edu/ask>. Various ways to receive assistance with respect to using the libraries or finding resources.
- **Teaching Center:** Broward Hall, 392-2010 or 392-6420. General study skills and tutoring. <http://teachingcenter.ufl.edu/>
- **Writing Studio:** 302 Tigert Hall, 846-1138. Help brainstorming, formatting, and writing papers. <http://writing.ufl.edu/writing-studio/>
- **Hitchcock Field & Fork Pantry:** <https://pantry.fieldandfork.ufl.edu/> Free food pantry for students, faculty and staff facing food insecurity.
- **Student Complaints Campus:** https://www.dso.ufl.edu/documents/UF_Complaints_policy.pdf
- **On-Line Students Complaints:** <http://www.distance.ufl.edu/student-complaint-process>

Spring 2023 Class Schedule

| DATE | LECTURE TOPICS |
|-----------|---|
| 1/10-1/12 | Syllabus! Ch 1: Introduction – Ch 2: Structure and Function of Neural Cells |
| 1/17-1/19 | Ch 2 – Ch 3: Structure of the Nervous System |
| 1/24-1/26 | Ch 5 – Guest Lecture: Methods and Strategies of Research |
| 1/30-2/2 | Ch 3 – Ch 4: Psychopharmacology |
| 2/7 | QUIZ 1: Chapters 1-5 |
| 2-9 | Ch 6: Vision |
| 2/14-2/16 | Ch 7: Audition, the Body Senses, and the Chemical Senses – Ch 8: Control of Movement |
| 2/17 | Assignment 1 DUE |
| 2/21-2/23 | Ch 8 – Ch 9: Sleep and Biological Rhythms |
| 2/28-3/2 | Ch 9 – Ch 10: Reproductive and Parental Behavior |
| 3/7 | QUIZ 2: Chapters 6-10 |
| 3/9 | Ch 11: Emotion |
| 3/10 | Assignment 2 DUE |
| 3/14-3/16 | NO CLASS – Spring Break |
| 3/21-3/23 | Ch 12: Ingestive Behavior – Ch 13: Learning and Memory |
| 3/28-3/30 | Ch 13 – Ch 14: Human Communication |
| 4/4 | QUIZ 3: Chapters 11-14 |
| 4/6 | Ch 15: The Developing Nervous System |
| 4/11-4/13 | Ch 16: Neurological Disorders – Ch 17: Schizophrenia and the Affective Disorders |
| 4/14 | Assignment 3 DUE |
| 4/18-4/20 | Ch 17 – Ch 18: Stress and Anxiety Disorders |
| 4/25 | Quiz 4: Chapters 15-18 |

Note: Please read the chapter before the specific class meetings. The course schedule may change as needed, depending on how much we are enjoying each chapter. It is your responsibility to keep up with the changes by coming to class and reading announcements to stay updated. Also, it is not feasible to cover all of the materials in the textbook during the class meetings. Rather, I will focus on major and important themes in the chapters. All material in the textbook and lecture is eligible to be included in the quizzes.

In response to COVID-19, the following recommendations are in place to maintain your learning environment, to enhance the safety of our in-classroom interactions, and to further the health and safety of ourselves, our neighbors, and our loved ones.

- If you are not vaccinated, get vaccinated. Vaccines are readily available and have been demonstrated to be safe and effective against the COVID-19 virus. Visit one.uf for screening / testing and vaccination opportunities.
- If you are sick, stay home. Please call your primary care provider if you are ill and need immediate care or the UF Student Health Care Center at 352-392-1161 to be evaluated.
- Course materials will be provided to you with an excused absence, and you will be given a reasonable amount of time to make up work.

*I reserve the right to revise the syllabus in order to accommodate the needs of the course. In case of any updates, please pay attention to the course announcements.

General Education and Subject Area Student Learning Outcomes

| Category | Institutional Definition | Institutional SLO |
|-------------------|---|---|
| Content | Content is knowledge of the terminology, concepts, methodologies and theories used within the subject area | Students demonstrate competence in the terminology, concepts, methodologies and theories used within the subject area. |
| Critical Thinking | Critical thinking is characterized by the comprehensive analysis of issues, ideas, and evidence before accepting or formulating an opinion or conclusion. | Students carefully and logically analyse information from multiple perspectives and develop reasoned solutions to problems within the subject area. |
| Communication | Communication is the development and expression of ideas in written and oral forms. | Students clearly and effectively communicate knowledge, ideas, and reasoning in written or oral forms appropriate to the subject area. |

| Subject Area | Content | Critical Thinking | Communication |
|----------------------------------|--|---|--|
| Physical and Biological Sciences | Identify, describe, and explain the basic concepts, theories, and terminology of natural science and the scientific method; the major scientific discoveries and the impacts on society and the environment; and the relevant processes that govern biological and physical systems. | Formulate empirically-testable hypotheses derived from the study of physical processes or living things; apply logical reasoning skills effectively through scientific criticism and argument; and apply techniques of discovery and critical thinking effectively to solve | Communicate scientific knowledge, thoughts, and reasoning clearly and effectively. |

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|--|--|---|--|
| | | scientific problems and to evaluate outcomes. | |
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