

PSB 3002: Physiological Psychology

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Spring 2023

Office Hours: 10:25-12:00 Wednesdays & Fridays. PSY 023 (Psychology Building Basement). Additional Zoom or in-person meeting times by appointment.

Class time: M,W,F 9:35: 10:25

Classroom: PSY 0130

*I reserve the right to revise the syllabus in order to accommodate the needs of the course. Any updates will be posted to the course announcements section of CANVAS.



Course Description

Wilhelm Wundt (pictured), known as the “father of experimental psychology”, on the goal of physiological psychology:

“...to investigate the relations that hold between the processes of the physical and those of the mental life”

Physiology is a sub-discipline of biology, while psychology seeks to explain thoughts and behavior. Putting the two together, this course is an introductory survey of how the brain produces mental and physical action. While the experiments discussed throughout the course sometimes feature animals like rats and monkeys, the goal is always to use these animal models to better understand *human* nature.

In terms of content, this course overlaps with many topics including neuroanatomy, psychobiology, abnormal psychology, sensory processes, and psychopharmacology. We will seek to gain an appreciation of the core processes through which neural systems produce psychological phenomena. While the goal is not to become an expert on any (let alone all) of these topics, this is not to say that the subject matter will be in any way simple or lacking in detail. Successfully completing this course will provide a solid knowledge base for more advanced study, should you be so inclined. Many specific topics we will cover during the semester are treated individually in semester-long courses, where there is time to pursue more in-depth coverage in place of the breadth of topics covered here.

Course Outline

The course will progress through 3 general stages:

- 1) Background. Anatomy and functional specialization of the central nervous system (CNS); structure and function of neurons.
- 2) How the CNS transforms input from the physical world (sensations) into internal experiences (perceptions).
- 3) How the brain produces higher cognitive functions like memory and attention as well as emotions (fear, happiness, etc.). The biological basis for some CNS diseases such as Alzheimer's.

As part of the general education curriculum, this class pursues 3 broad categories of student learning outcomes (SLOs):

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 analyze 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.

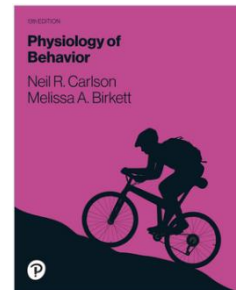
More specifically, this course is part of the Biological Sciences subject area, as described below:

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 Readings

Carlson, Neil R and Melissa A Birkett (2020). *Physiology of behavior*. 13th edition. Pearson. **Revel version

<https://www.bsd.ufl.edu/G1CO/IPay1f/start.aspx?TASK=INCLUDED>



- Login with UF All-Access and Opt-In to gain access to Revel.
- Revel access is *required* for course. All Access will provide you with your required materials digitally at a reduced price and the ability to pay using your student account. This option will be available starting 1 week prior to the semester starting and ending at midnight on the last day of the drop/add period. **Students who opt out of UF All Access will be removed from the course roster.**
- A printed version of the book is not required, but if you prefer to read a non-digital format you may wish to purchase a printed copy for yourself (at additional cost).
- Internet access is required to complete Revel assignments (not counted for final grade, see below) and activities.

Prerequisites and Other Requirements:

An introductory course in Psychology (e.g. PSY2012)

All course announcements, including any modifications to this syllabus (should the need arise), will be communicated via e-mail and Canvas announcements. Students should check their UF e-mail account regularly.

This course requires adherence UF’s minimum technology requirements (recommendations [here](#)). These include a computer with webcam, microphone, speakers, and access to a stable internet connection.

A wired connection is recommended when taking quizzes and/or exams.

- A dedicated room for online assessments is available in UF Library West. To make a reservation for a time of high demand go to the following website: <http://ufl.libcal.com/spaces?lid=4458&gid=8873>
- Other on-campus computer options can be found here <https://labs.at.ufl.edu/>

For technical support, contact the UF Help Desk: <https://helpdesk.ufl.edu/>

- In the event of a technical problem, a support ticket must be obtained from the UF help desk. Technical support will be able to diagnose and certify the source of any problem. Course instructor will not respond regarding *any* technical problems that do not have a prior support ticket from the UF helpdesk – include this support ticket # when communicating the problem.

Accommodation for disabilities: Students requesting accommodation for disabilities must first register with the Dean of Students Office (<http://www.dso.ufl.edu/drc/>). **Accommodations are not retroactive**, so students should contact the office as soon as possible in the term for which they are seeking accommodations. Documentation should be provided prior to taking quizzes or exams – the earlier the better. The Dean of Students Office will provide documentation (an accommodation letter) to the student who must then provide this documentation to the instructor when requesting accommodation.

Religious observances / UF sponsored activities: A student needs to inform the instructor if religious observances of their faith or UF sponsored activities (e.g. sports, student government, etc.) will conflict with scheduled quizzes or examinations **prior to** the class or occurrence of that test or activity.

Illness policy: For any medical conditions, psychological conditions, illnesses or injuries that prevent completing scheduled quizzes or examinations, the student should notify the instructor as soon as possible and arrange to provide supporting documentation. The student healthcare center (<https://shcc.ufl.edu>) can provide verifications of visits, as well as excuse notes in certain situations (see <https://shcc.ufl.edu/forms-records/excuse-notes/>).

GRADING: All graded assessments in this course are on Canvas. All multiple choice and short answer questions are either all correct or all incorrect – i.e. no partial credit awarded for questions with multiple answer prompts. You have only one opportunity to take each quiz and exam, so make certain you are well prepared before you start. **All quizzes and exams are closed book and closed note** – no additional materials are allowed to assist you in completing exams or quizzes.

Final course grades will follow the standard grading scale shown to the right:

A minimum grade of C is required for general education credit

Grade	Percentage Range
A	96% – 93%
A-	92.5% – 90%
B+	89.5% – 86.5%
B	86% – 83%
B-	82.5% – 80%
C+	79.5% – 76.5%
C	76% – 73%
C-	72.5% – 70%
D+	69.5% – 66.5%
D	66% – 63%
D-	62.5% – 60%
E	59.5% – 0%

Quizzes: 12 of 14 total quizzes (lowest 2 scores will be dropped) will count

for a total of **45%** of the final grade and will cover material in assigned chapter sections. There will be 1-2 quizzes for each chapter with 25 questions each (each question worth 1 point). An initial syllabus quiz is worth 1 point. Each quiz will allow a total of about 1.25 minutes for each question (total of 32 minutes), after which time the quiz will be automatically submitted, and any unanswered questions will be counted as incorrect.

Exams: 3 exams will count for a total of **50%** of the final grade. Exams are non-cumulative and will cover material from the preceding 4 chapters. Each examination will consist of 50 questions worth 2 points each. Each exam must be completed within 1 hour and three minutes (63 minutes, again approximately 1.25 min./question) of starting it, after which time the exam will be automatically submitted, and any unanswered questions will be counted as incorrect.

The overall weightings are such that every quiz and exam is considered “low stakes”, counting for less than 20% of the overall course grade.

SONA Research Pool Participation: Research participation will count for **5%** of the final grade. There is a Psychology Department requirement that all students enrolled in any 3000-level class participate in the SONA participation pool or complete an equivalent alternate assignment. Deadlines and number of hours for fulfilling this requirement will be posted on Canvas by the second week of class. Do **NOT** wait until the last minute to complete this requirement. The longer you wait the harder it will be to get all the credits you need!

Revel activities: The Revel platform for each chapter will have several short “assigned” quizzes. These Revel quizzes are strictly to aid in checking comprehension and to facilitate studying for exams and graded quizzes in Canvas. Only exams and quizzes taken in Canvas will count towards the final grade.

Attendance & Participation: Attendance will not be taken. However, material that is covered during the lecture will be included on the quizzes. Class lectures will be recorded by the instructor and will be made available to any student who misses class due to *documented* illness or school-related activities as outlined in this syllabus. Additionally, each student may request access to recordings from 2 missed classes without any type of documentation.

Lecture 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.

PROCTORING: Quizzes and exams for this course are accessible only through Canvas using the Respondus LockDown Browser

(https://web.respondus.com/wp-content/uploads/2020/07/QSG_CanvasNew_Student.pdf.)

You will need to download this application if you have not done so previously. Go to: <https://download.respondus.com/lockdown/download.php?id=364713981> or follow the link in Canvas that appears when you go to a quiz if you are not using the LockDown browser.

Respondus LockDown Browser Required

This quiz requires Respondus LockDown Browser. Please launch Respondus LockDown Browser to take this quiz or view your quiz results.

If you have not already installed the browser, please download it from here: [\[Download Respondus LockDown Browser\]](#) ↗

Quizzes and exams are limited in total time, meaning that you really have to know the material. Please complete the syllabus quiz as soon as possible to ensure that the LockDown browser is functioning correctly. In the event of technical problems, the Windows and Mac versions of LockDown Browser have a “Help Center” button located on the toolbar. Use the “System & Network Check” to troubleshoot issues. Otherwise, contact the UF Help Desk: <https://helpdesk.ufl.edu/>

ACADEMIC HONESTY: 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."

Students who share information pertaining to course content from quizzes or exams will be referred to Student Conduct and Conflict Resolution (SCCR) Office in the Dean of Students Office (<https://sccr.dso.ufl.edu/policies/student-honor-code-student-conduct-code/>).

Schedule for exams and quizzes: See the monthly calendars on the following pages for specific due dates. We will cover **12 chapters** of the book (1-4, 6-9, 11, 13,16-17), or about 1 chapter per week, with 2 weeks devoted to the longer chapters (Ch. 6 on vision and Ch. 13 on learning and memory).

Online quizzes will be made available no later than Thursday the week that they are due, with all quizzes except for the final one due by 11:59 PM on Sundays. The final quiz is due by 11:59 PM on Wednesday, April 26th (final day of classes).

Online exams 1 & 2 will be made available beginning on Thursday the week that they are due and must be completed by 11:59 PM the following Sunday. Exam 3 will be made available prior to the final exam period beginning on April 29th and must be completed by 11:59 PM on Thursday May 4th.

After the due dates quizzes and exams will disappear, along with the opportunity to get points for them. Please read through the syllabus for potential conflicts and alert the instructor as soon as possible. See page 1 for details relating to scheduling conflicts due to religious, medical, and/or UF sponsored activities.

In order to preserve the integrity of test materials across classes and years, detailed feedback from quizzes and exams will *NOT be provided online*. Feedback pertaining to missed questions or correct answers will be provided only during office hours for an individual student. Office hours meetings to discuss quizzes or exams can be either in person or Zoom conference. Specific instructions for use of audio/visual conferencing on Zoom are on the UF E-learning website. <https://elearning.ufl.edu/zoom/>

2023		January				
MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY
26	27	28	29	30	31	01
02	03	04	05	06	07	08
09 First day of class	10	11	12	13	14	15 Syllabus quiz due by 11:59 PM
16 MLK day - No Classes	17	18	19	20	21	22 Ch. 1 quiz due
23	24	25	26	27	28	29 Ch.2 quiz
30	31	Notes:				

2023		February				
MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY
30	31	01	02 Exam 1 posted, due by 11:59 PM, Sun. Feb. 5th	03	04	05 Ch.4 quiz due
06	07	08	09	10	11	12 6.1-6.3 quiz due (skip Ch. 5)
13	14	15	16	17	18	19 6.4-6.6 quiz due
20	21	22	23	24	25	26 Ch. 7 quiz due
27	28	01	02	03	04	05
06	07	Notes:				

2023		March				
MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY
27	28	01	02	03	04	05 Ch. 8 quiz due
06	07	08	09	10	11	12
13 Spring Break - No Classes	14	15 No Class	16	17 No Class	18	19
20	21	22	23 Exam 2 posted, due by 11:59 PM, Sun. March 20th	24	25	26 Ch. 9 quiz due
27	28	29	30	31	01	02
03	04	Notes:				

2023		April				
MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY
27	28	29	30	31	01	02 13.1-13.4 quiz due (skip Ch. 12)
03	04	05	06	07	08	09 13.5-13.7 quiz due
10	11	12	13	14	15	16 Ch. 16 quiz due (skip Ch. 14-15)
17	18	19	20	21	22	23
24	25	26 Final Day of Class, Ch. 17 quiz due	27 Reading Days	28 Reading Days Exam 3 posted due by 11:59 PM, Thurs. May 4th	29 Final Exams: April 29th - May 5th	30
01	02	Notes:				

CLASS EVALUATIONS: Students are expected to provide professional and respectful feedback on the quality of instruction in this course by completing course evaluations online 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/>.

COUNSELING AND WELLNESS CENTER: Contact information for the Counseling and Wellness Center: <http://www.counseling.ufl.edu/cwc/Default.aspx>, 392-1575; and the University Police Department: 392-1111 or 9-1-1 for emergencies.

POLICY ON SEXUAL HARASSMENT Sexual Harassment is not tolerated in this class, in the Department of Psychology, or at the University of Florida. Sexual harassment includes: the inappropriate introduction of sexual activities or comments in a situation where sex would otherwise be irrelevant. All UF employees and students must adhere to UF's sexual harassment policy which can be found here: <https://hr.ufl.edu/forms-policies/policies-managers/sexual-harassment/>. Please review this policy and contact a university official if you have any questions about the policy.

As mandatory reporters, university employees are required to report knowledge of sexual harassment to UF's Title IX coordinator. For more information about UF's Title IX office see: <https://titleix.ufl.edu/>. You can also complete a Sexual Harassment Report online (Title IX) at: <https://titleix.ufl.edu/title-ix-reporting-form/>.