

COURSE INFORMATION

PSY22200-004 Introduction to Behavioral Neuroscience

CRN 27415

Online only

3 credit hours

<https://purdue.brightspace.com/d2l/home/25026>

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This course is all online. Please contact your instructor via email or through Brightspace D2L or email.

Learning Resources, Technology & Texts

Text: *Biological Psychology 12E with MindTap*, by James W. Kalat

We will cover 3-4 chapters per week.

This course is administered through **Brightspace D2L**.

It is strongly suggested that you explore and become familiar with the site navigation.

You will participate in Discussion boards weekly, through D2L.

This course uses **MindTap**. Access it through Brightspace D2L.

You will have assignments due at the end of each Friday of the course.

Course Description

The purpose of this course is to introduce students to the field of behavioral neuroscience. The course will largely cover basic neuroanatomy, neural function, and neural transmission, and provide a foundation for understanding brain and behavior in normal and abnormal functioning. In addition to introducing brain and behavior, the course will prepare students for more advanced courses in behavioral neuroscience.

Learning Outcomes

- Define the primary goals of scientific research related to behavioral neuroscience
- Describe the biological processes underlying normal and abnormal behavior
- Discuss the use of animal models in scientific research
- Communicate proficient knowledge about methods and concepts in behavioral

How to Succeed in this Course

If you want to be a successful student:

- Be self-motivated and self-disciplined
- Be willing to communicate with your instructor
- Be willing and able to commit 3-5h per day to the course. We cover an entire semester in 4 weeks!

- Use the powerpoint slides as you read. Write out your notes, rather than typing them
- Go back and review material you already studied daily

In contrast, here are some common behaviors that hinder learning and success in this course:

- Don't keep up with reading
- Don't review what you have learned on a daily basis
- Ignore emails from your instructor
- Wait until the last minute to do homework
- Forget about deadlines and due dates

Getting Started:

1. Familiarize yourself with the course layout in Blackboard
2. Carefully read the syllabus and understand due dates and assignments
3. Read and follow the Netiquette document on Blackboard
4. Familiarize yourself with the eversion of the textbook and the associated material. MindTap has a lot of features that are helpful in learning. Take some time to get to know what is there.
5. Read the rubrics for Discussion Board posting

Please read through everything before asking questions. All of the information you need should be there! If not, please email your instructor.

Course Design

There are four modules to this course. Because this section is only 4 weeks long, you will complete one module per week. Keep in mind that if you were in the classroom, you would spend 150 minutes/week in class, and in general, it is expected that students spend twice that studying/completing homework and projects, etc. Four -week courses require a great deal of commitment for those four weeks.

The modules are described in detail on Blackboard, and briefly as follows:

Module 1: Structure and Function of the CNS

Introduction

Chapter 1: Nerve Cells and Nerve Impulses

Chapter 2: Synapses

Chapter 3: Anatomy and Research Methods

Chapter 4: Genetics, Evolution, Development and Plasticity

Module 2: Sensation, Perception and Movement:

Chapter 5: Vision

Chapter 6: Other Sensory Systems

Chapter 7: Movement

Module 3: Motivated Behaviors and Emotion

Chapter 8: Wakefulness and Sleep

Chapter 9: Internal Regulation
Chapter 10: Reproductive Behaviors
Chapter 11: Emotional Behaviors

Module 4: Learning, Thinking and Behaving

Chapter 12: The Biology of Learning and Memory
Chapter 13: Cognitive Functions
Chapter 14: Psychological Disorders

Assignments and Points

The schedule for the course includes all due dates and point values. It is a separate document. You are encouraged to print the document and keep it handy, and put due dates into your planner or whatever you use to organize your schedule. Late work is not accepted.

Your learning will be assessed through a combination of your participation in discussion boards, weekly assignments on MindTap, and weekly quizzes (tests).

Discussion Board Participation: There will be one discussion board per week. Please see the rubric on D2L for participation. In short, you are required to make one meaningful, novel post each week, and respond, meaningfully, to at least 3 of your classmates' posts. Inappropriate posts will not be tolerated.

Online assignments: We are using MindTap to enhance the course. Access MindTap and keep track of assignments on the calendar. For each chapter, there are several assignments. The assignments for each week are due by 11:59 PM each Friday, however it will be to your benefit to do them each day, as we cover one chapter per day. No late assignments will be accepted.

Assignments for each week are worth a total of 10 points per chapter, not the number of points shown in MindTap. These points will be added to the grade book in D2L by your instructor. For the course, there are 140 points worth of homework, so missing a point here and there is not a big deal, but missing more will add up. Oftentimes, the difference between two letter grades comes down to just a few points for a lot of students.

Quizzes: There will be four 'quizzes' throughout the course. All quizzes will be non-cumulative, but will often build upon information learned during previous quizzes. Quizzes will be available for you to take between 7 am each Friday and 11:59 pm on the following Sunday.

Grade breakdown:

140 points	MindTap
5 points	Introduction
25	Discussion Board 1
25	Discussion Board 2
25	Discussion Board 3
25	Discussion Board 4

100 points	Quiz 1
100 points	Quiz 2
100 points	Quiz 3
100 points	Quiz 4

Grading Scale

A	≥ 90
B	80-89.99%
C	70-79.99%
D	60-69.99%
F	≤59.99 points

In this class, grades reflect the sum of your achievement throughout the course. You will accumulate points as described above. At the end of the course, final grades will be calculated by adding the total points and translating those numbers into letter grades consistent with the grading scale.

Policies

General Course Policies

In general, email will be answered within 24 h of receipt. Please include 'PSY222' in the subject line.

Academic Integrity

Academic integrity is one of the highest values that Purdue University holds. Individuals are encouraged to alert university officials to potential breaches of this value by either emailing integrity@purdue.edu or by calling 765-494-8778. While information may be submitted anonymously, the more information that is submitted provided the greatest opportunity for the university to investigate the concern.

The Purdue Honor Pledge

"As a boilermaker pursuing academic excellence, I pledge to be honest and true in all that I do. Accountable together- we are Purdue"

Nondiscrimination Statement

Purdue University is committed to maintaining a community which recognizes and values the inherent worth and dignity of every person; fosters tolerance, sensitivity, understanding, and mutual respect among its members; and encourages each individual to strive to reach his or her own potential. In pursuit of its goal of academic excellence, the University seeks to develop and nurture diversity. The University believes that diversity among its many members strengthens the institution, stimulates creativity, promotes the exchange of ideas, and enriches campus life. More details are available on our course Brightspace table of contents, under University Policies.

Students with Disabilities

Purdue University strives to make learning experiences as accessible as possible. If you anticipate or experience physical or academic barriers based on disability, you are welcome to let me know so that we can discuss options. You are also encouraged to contact the Disability Resource Center at: drc@purdue.edu or by phone: 765-494-1247. More details are available on our course Brightspace under Accessibility Information.

Mental Health Statement

- **If you find yourself beginning to feel some stress, anxiety and/or feeling slightly overwhelmed, try [WellTrack](#).** Sign in and find information and tools at your fingertips, available to you at any time.
- **If you need support and information about options and resources,** please contact or see the [Office of the Dean of Students](#). Normal drop-in hours are M-F, 8 am- 5 pm.
- **If you're struggling and need mental health services:** Purdue University is committed to advancing the mental health and well-being of its students. If you or someone you know is feeling overwhelmed, depressed, and/or in need of mental health support, services are available. For help, such individuals should contact [Counseling and Psychological Services \(CAPS\)](#) at 765-494-6995 during and after hours, on weekends and holidays, or by going to the CAPS office of the second floor of the Purdue University Student Health Center (PUSH) during business hours.

Grief Absence Policy for Students

Purdue University recognizes that a time of bereavement is very difficult for a student. The University therefore provides the following rights to students facing the loss of a family member through the Grief Absence Policy for Students (GAPS). GAPS Policy: Students will be excused for funeral leave and given the opportunity to earn equivalent credit and to demonstrate evidence of meeting the learning outcomes for missed assignments or assessments in the event of the death of a member of the student's family.

Emergencies

In the event of a major campus emergency, course requirements, deadlines and grading percentages are subject to changes that may be necessitated by a revised semester calendar or other circumstances beyond the instructor's control. Relevant changes to this course will be posted onto the course website or can be obtained by contacting the instructors or TAs via email or phone. You are expected to read your @purdue.edu email on a frequent basis.

_ Follow these guidelines regarding ensuring access to emergency information:

- Keep your cell phone on to receive a Purdue ALERT text message.
- Log into a Purdue computer connected to the network to receive any Desktop Popup Alerts.

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Disclaimer: This syllabus is subject to change. Any changes will be communicated with students via Brightspace and email.