

PSYCHOLOGY 262
Behavioral Neuroscience
Spring 2022
TUESDAY AND THURSDAY 2:00PM – 3:15PM
Lecture Center D5

Instructors:

Dr. Pauline M. Maki

Office: 1022B Behavioral Sciences Building (BSB) 1007 West Harrison Street

Office Hours: Tuesdays 1:00pm-2:00pm or by appointment

Email: pmaki1@uic.edu

Teaching assistants

Elizabeth Wenzel

Office hours: Wednesdays, 10AM, BSB 1063 *Join via Zoom:*

Meeting ID: 856 5156 2328

Passcode: PSCH262!

email: ewenze4@uic.edu

Greeshma Job

Office hours: Tuesdays, 12PM, BSB 1073 *Join via Zoom:*

Meeting ID: 870 1495 1758

Passcode: PSYCH262

Required text: Biopsychology, 10th edition, John P.J. Pinel

Website: uic.blackboard.edu

Building on the formative lectures in the first part of this class, the second part of this class will focus on Behavioral Neuroscience represents the merging of Psychology and Biology. At its core, Behavioral Neuroscience seeks to explain complex behaviors by the physiological processes that underlie them. During the semester you will learn about how behavior is generated in response to events in the world around us. You will gain a significant understanding of the nervous system and how it is organized. We will cover how our bodies are built to receive information from the senses and turn that information into plans to move our bodies to react to those sensations. We will also cover how the endocrine system, which releases hormones, interacts with the nervous system and influences behavior. Finally, we will consider a biological basis for higher order function (e.g. learning and memory) as well as psychological disorders such as schizophrenia and drug addiction.

As we return to in-person activities, pre-recorded lectures will still be made available. During lecture time, the professor will deliver review sessions in person. To incentivize a return to in-person attendance, demonstrations will take place during the review session for **5 of the 10** lectures for which we will be together. Students will be required to answer questions related to each demonstration for **3 of the 5** demonstrations before leaving the lecture hall. Demonstration dates are denoted on the syllabus with an asterisk (*).

Tentative Class Schedule

Week	Date	Topic	Readings
PART III: BRAIN PLASTICITY			
9	3/8	Brain damage and neuroplasticity	Chapt. 10
	3/10	Learning, memory and amnesia**	Chapt. 11
10	3/15	Memory and the Hippocampus	Chapt. 11
PART IV: BIOPSYCHOLOGY OF MOTIVATION			
	3/17	Hunger, Eating and Health**	Chapt. 12
11	3/22	NO CLASS: SPRING VACATION	
	3/24	NO CLASS: SPRING VACATION	
12	3/29	Sleep	Chapt. 14
	3/31	Sex Hormones and Behavior (Lizzie Wenzel)	Chapt. 13
13	4/5	Exam III - in class	
	4/7	Substance Use and Substance Use Disorders	Chapt. 15
PART V: BIOPSYCHOLOGY OF STRESS, EMOTION, AND MENTAL HEALTH CONDITIONS			
14	4/12	Stress and the HPA Axis (Lizzie Wenzel)	Chapt. 17
	4/14	Emotion and Fear**	Chapt. 17
15	4/19	Anxiety	Chapt. 18
	4/21	Depression **	Chapt. 18
16	4/26	Other Psychiatric Disorder and Clinical Trials**	Chapt. 18
	4/28	In class demonstration plus review of material for final exam	

Final Exam: TBD based on final published final exam calendar; see <https://registrar.uic.edu/current-students/calendars/final-exam-schedule/>

****Bolded lessons are in-class demonstrations**

Evaluations

Weekly quiz: 5 points each X 7 weeks = 35 points

Multiple choice, **in-class exam III**: 25 points = 25 points

Pop culture or pop press/on-line check-ins: 10 points X 2 = 20 points

Final Exam, in-class 50-point final Exam comprising all material after exam III (25 points) plus all prior material (25 points)

Quizzes: 5 multiple choice questions; must be completed by 5pm on Friday of each week of the semester. Quiz becomes available at 3:00pm each Thursday and you will have 15 minutes to complete it once you begin.

Demonstrations: Students must attend, in-person, 3 of 5 in-class demonstrations. Questions will only be given during the demonstration and must be turned in before the end of class.

Exams: All exams will be given during the designated date and time stated above. Therefore, there will be **no make-up exams** except for the most serious of documented circumstances. There will be one in-class, 25-point multiple choice exam (Exam III) and an in-class 50-point multiple choice final exam. The final exam will cover all lecture material after exam III (25 points) plus all prior material, with an emphasis on prior material covered in quizzes and in-class demonstrations (25 points). The final exam will be given on the established final exam schedule. <https://registrar.uic.edu/current-students/calendars/final-exam-schedule/>

Check-ins: Behavioral neuroscience is all around you! Find an example of behavioral neuroscience within pop culture (e.g. movie or show clip; song) or the popular press (e.g., New York Times, Washington Post, CNN, etc.) that captures some small aspect of topics discussed in class. Write 3-4 sentences about the example and how it relates to course material. You should identify a lecture and slide that relates to your Check-in and note it in your submission. Submit your Check-in as a word document via submission link on Blackboard. Additional instructions are in the Check-in folder.

There will be no opportunities for extra credit.

ALL quizzes, exams and check-ins will be used to calculate your final grade.

Scores for late assignments will be reduced by 10% for each day the assignment is late. Importantly, the moment the deadline is passed constitutes the first 'day' that the assignment is considered late – with each 24hr period after constituting the next day.

It is our hope that each student learns the material and succeeds. Cheating will not be tolerated. Evidence of cheating will result in that assignment's disqualification and a 0 being entered as that exam's result. Likewise, evidence of plagiarism on the paper will result in a score of 0. The incident will also be reported to UIC's Dean of Students Office.

You will be tested on lecture material and information from the textbook. Lectures will not be a regurgitation of what is in the textbook. The lectures will only highlight some of the information covered in the text while going into greater detail on other topics. To succeed in this class - ***and we want you to succeed*** - you should attend the lectures and read the assigned material. If you do poorly on an exam, you should visit with the T.A.s or one of the instructors. Until exams are graded we cannot give grade-point cutoffs. However, the overall class mean at the end of the semester, if below 80%, will be the lowest possible percentage to obtain a B in the course. 10% increments above and below the overall class mean will be the cutoffs for the other letter grades. If the overall class mean is 80% or higher, then traditional cutoffs (A:100-90; B:89.9-80; C:79.9-70; D:69.9-60; F:59.9-0) will be used.

Accommodations are available for students who have disabilities. Please notify the TAs or me during the first week of class of any accommodation needed for the course. Students with disabilities who require accommodations for access and participation in this course must be registered with the Disability Resource Center (DRC; 312-413-2183). Disabilities may arise due to unanticipated medical emergencies or other traumatic events. In the case of such a situation please contact the DRC at the time when the problem occurs, so that a counselor can determine whether any accommodations are needed.

I am committed to making this course accessible to all students, regardless of race, ethnicity, religion, gender identity, economic resources, or disabilities. In an increasingly diverse society, we value inclusivity and difference, and the opportunity to learn together. Therefore, in all of our interactions and communications, it is important that we strive to have mutual respect and appreciation for one another, and for any course guests and members of the community with whom we interact.

Best wishes for an enjoyable semester!!!!