

Psychology 110
Psychobiology and Cognition
Fall 2014

Class time: MWF 12:00-1:05; 1:15-2:20

Instructor: Zainab Delawalla, Ph.D.

Office: Modular Unit 2, Rm 5

Office hours: By appointment

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Course Textbook: Biological Psychology: An Introduction to Behavioral, Cognitive, and Clinical Neuroscience, 7th edition by Breedlove and Watson

Course Description: This course is an introduction to behavioral neuroscience, a branch of psychology that examines the biological basis of behavior. We will cover a broad range of topics, including neuroanatomy, evolutionary principles, sensory processing, emotional processing, cognition, and neuroethics.

Course Objectives & Outcomes: Following this class, students will be able to:

1. Identify basic brain structures and functions, including cellular mechanisms, brain regions and connections between them, and basic neurochemistry and its effects on behavior.
2. Use understanding of structures to describe physiological behaviors such as sensation and perception, sleeping, reproduction, emotion, learning and human communication.
3. Use knowledge of brain structures and functions to analyze and evaluate human behaviors in real-world situations, including personal experience.
4. Use knowledge of biological psychology to critically evaluate the validity of media reports.

Evaluation: We will have 3 in-class exams and *an optional final exam*. The final exam will be cumulative. If you take the final, you have the liberty to drop your lowest exam score, choose not to take an exam, or miss an exam for personal reasons. Your final grade will be an average of your 3 highest exam scores. There will be no make-up exams.

There will also be a few pop quizzes throughout the semester. They will be at the beginning of class, and we will go over the answers together right away. Your scores on these quizzes will not factor into your final grade but are meant to give you a gauge of your understanding of the course material.

A = 93-100%	C+ = 77-79%	F = below 60%
A- = 90-92%	C = 73-76%	
B+ = 87-89%	C- = 70-72%	
B = 83-86%	D+ = 67-69%	
B- = 80-82%	D = 60-66%	

Cell Phone Use: Cell phone use is not permitted during class or exams. This includes talking, texting, emailing, gaming, or browsing the web. Please silence your device before entering the classroom.

Disability Services: The University is obligated to provide appropriate accommodations for students with documented disabilities. Students are responsible for initiating the accommodations process with the Office of Disability Services (ODS) and providing appropriate documentation in a timely manner, no later than September 12.

Academic Integrity: Emory University has strict rules regarding academic misconduct. Cheating or helping other students cheat on exams will not be tolerated. Any student caught cheating on an exam will be subject to receiving a zero for that exam, as well as other academic sanctions. Please familiarize yourselves with Emory's honor code.

<http://oxford.emory.edu/academics/student-services/student-honor-code/>

How to do well in this class

1. **Come to class:** Exam questions will mostly be derived from information presented in class. We will use the text as a guide but may choose to emphasize certain topics and gloss over others.
2. **Participate in class:** Ask and answer questions in class. Exam questions will test not so much your familiarity with terms or factual knowledge, but rather your understanding of concepts, mechanisms, and perspectives. You learn best by incorporating new material into information you already have. When you answer questions in class, you are making meaningful connections about what you've just learned to things you already know. Don't be intimidated by the prospect of answering incorrectly. Challenge yourself to answer a question, even if you're not 100% certain of the answer.
3. **Keep up with the material:** Stay on top of the reading. The textbook and lecture material complement each other. You can choose whether you want to read before we discuss the topic in class or once we've already done so, but don't fall too far behind. "Binge" reading before the exam is a very ineffective way to learn the material.
4. **Take good notes:** Don't rely on my PowerPoint slides. Take your own notes in class, preferably on blank paper. The act of writing down what you hear helps consolidate information and helps you better remember the information later.
5. **Go over new information often:** If you can, go over new topics as soon as we've covered them. Even if you just read your notes once the day of or day after taking them, you will enhance your learning significantly. Come up with five exam questions after every lecture and use these as a study guide before the exam.
6. **Study together:** If you study in small groups, and each student has come up with five questions for each lecture presented in class, you will have a very comprehensive study guide. When you explain concepts to others, you solidify your own understanding. Conversely, if you're struggling with a concept, hearing a peer explain it might make it "click" better.
7. **Speak up:** If you don't understand something, speak up and ask questions. Chances are you're not alone. Don't wait until the day before the exam to ask for a better explanation.
8. **Stay healthy:** If you are chronically sleep-deprived, hung over, or eating a poor diet, you will impede your learning.

Course Schedule

<u>Date</u>	<u>Topic</u>	<u>Reading</u>
8/27	Syllabus, Course overview	Ch. 1
8/29	Evolution	Ch. 6
9/1	<i>No Class / Labor Day</i>	
9/3	Neurophysiology	Ch. 3
9/5	Neurophysiology	Ch. 3
9/8	Neuroanatomy	Ch. 2
9/10	Neuroanatomy	Ch. 2
9/12	Neuroanatomy	Ch. 2
9/15	Neuropharmacology	Ch. 4
9/17	Neuropharmacology	Ch. 4
9/19	Neuropharmacology	Ch. 4
9/22	Hormones	Ch. 5
9/24	Hormones	Ch. 5
9/26	<i>Exam 1: Chapters 1-6</i>	
9/29	Sensory Processing	Ch. 8
10/1	Sensory Processing	Ch. 8
10/3	Hearing & Vestibular Perception	Ch. 9
10/6	Taste & Smell	Ch. 9
10/8	Motor Control	Ch. 11
10/10	Motor Control	Ch. 11
10/13	<i>No Class / Fall Break</i>	
10/15	Vision	Ch. 10
10/17	Vision	Ch. 10
10/20	<i>Exam 2: Chapters 8-11</i>	
10/22	Homeostasis	Ch. 13
10/24	Homeostasis	Ch. 13
10/27	Sexual Behavior	Ch. 12
10/29	Sexual Behavior	Ch. 12
10/31	Sexual Differentiation	Ch. 12
11/3	Biological Rhythms & Sleep	Ch. 14
11/5	Biological Rhythms & Sleep	Ch. 14
11/7	Emotions	Ch. 15
11/10	Emotions	Ch. 15
11/12	Psychopathology	Ch. 16
11/14	Psychopathology	Ch. 16
11/17	Learning & Memory	Ch. 17
11/19	Learning & Memory	Ch. 17
11/21	Attention	Ch. 18
11/24	Attention	Ch. 18
11/26	<i>No Class / Thanksgiving Break</i>	
11/28	<i>No Class / Thanksgiving Break</i>	
12/1	Language	Ch. 19
12/3	Language	Ch. 19
12/5	<i>Exam 3: Chapters 12-19</i>	
12/8	Neuroethics	
12/11	<i>Final (12-1:05 class): 2-5pm</i>	
12/12	<i>Final (1:15-2:20 class): 2-5pm</i>	