

PSYCHOLOGY 262
Behavioral Neuroscience
Spring 2017
TUESDAY AND THURSDAY 2:00PM – 3:15PM
Lecture Center Building D D001
804 South Halsted Street

Instructor:

Professor Pauline M. Maki

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Office Hours: Tuesdays 3:30-4:30 or by appointment

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Teaching Assistants:

Vienna Behnke

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Office Hours: Mondays from 11:30-12:30 or by appointment

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John Bark

Office: 1051 Behavioral Sciences Building (BSB) 1007 West Harrison Street

Office Hours: Thursdays 1:00-2:00 or by appointment

Email: bark1@uic.edu

Required text: Biopsychology, 9th edition, John P.J. Pinel (you do not need to purchase Myspsychlab)

Website: <http://blackboard.uic.edu>

Behavioral Neuroscience merges the field of neuroscience – the study of the nervous system – with the field of psychology – the scientific study of behavior. In this way, behavioral neuroscience is the subdivision of the field of neuroscience that focuses on the neurobiological basis of behavior. In this course you will gain an understanding of the biological basis of behavior from basic sensory processes such as vision and touch to more complex brain-based disorders such as drug addiction and Alzheimer's disease. You will gain a significant understanding of the organization and function of the nervous system, and will learn what methods are used to understand the biological basis of behavior. The ultimate goal of the course is to further your understanding of the neural basis of behavior and develop your critical thinking skills so that you expand your knowledge base about brain and behavior during the rest of your academic career.

Class Schedule

Week	Date	Topic	Readings
1	1/10	Introduction to Class and Behavioral Neuroscience	Chapt 1
PART I: FOUNDATIONS OF BEHAVIORAL NEUROSCIENCE			
	1/12	Evolution, Genetics, and Experience	Chapt 2
2	1/17	Anatomy of the nervous system	Chapt 3
	1/19	Anatomy of the nervous system	Chapt 3
3	1/24	Neural conduction and synaptic transmission	Chapt 4
	1/26	Neural conduction and synaptic transmission	Chapt 4
4	1/31	Neural conduction and synaptic transmission	Chapt 4
	2/2	Research Methods in Biopsychology	Chapt 5
5	2/7	Research Methods in Biopsychology	Chapt 5
	2/9	Exam I	
PART II: SENSING AND DOING – INTERACTING WITH THE EXTERNAL ENVIRONMENT			
6	2/14	Sensory systems: visual system	Chapt 6
	2/16	Sensory systems: visual system	Chapt 6
7	2/21	Sensory systems: somatosensory	Chapt 7
	2/23	Sensory systems: audition, gustation, olfaction	Chapt 7
8	2/28	Sensorimotor system	Chapt 8
	3/2	Exam II	
PART III: NEUROPLASTICITY, LEARNING, AND HORMONES			
9	3/7	Brain Damage and Neuroplasticity* *John Bark will lecture	Chapt 10
	3/9	Learning, memory, and amnesia	Chapt 11
10	3/14	Learning, memory, and amnesia	Chapt 11
	3/16	Learning, memory, and amnesia	Chapt 11

11	3/21 3/23	SPRING BREAK – NO CLASS SPRING BREAK – NO CLASS	
12	3/28	Hunger, Eating, and Health	Chapt 12
	3/30	Hormones and Sex	Chapt 13
13	4/4 4/6	Exam III Sleep, Dreaming, and Circadian Rhythms	Chapt 14
14	4/11	Drug addiction	Chapt 15
		PART IV: HIGHER ORDER FUNCTION AND MALFUNCTION	
	4/13	Language and Lateralization	Chapt 16
15	4/18	Emotion, Stress, and Health	Chapt 17
	4/20	Emotion, Stress, and Health	Chapt 17
16	4/25	Psychiatric disorders (Schizophrenia, Tourettes, Drug Trials)	Chapt 18
	4/27**	Anxiety and Depression	Chapt 18

4/28 Instruction Ends
5/1 – 5/5: Final Exams

FINAL

Wednesday, May 3 from 3:30-5:30 p.m.

** Biopsychology in the Media paper due

All exams will be given during the designated date and time stated above (the final exam time will be posted later in the semester). Therefore, there will be **no make-up exams** except for the most serious of documented circumstances. There will be 3 exams each worth 50 points and a final exam worth 75 points. The first exam will focus on the lecture material delivered in PART I: FOUNDATIONS OF BEHAVIORAL NEUROSCIENCE. The second exam will focus on the lecture material delivered in PART II: SENSING AND DOING – INTERACTING WITH THE EXTERNAL ENVIRONMENT. The third exam will focus on the lecture material delivered in PART III: NEUROPLASTICITY, LEARNING, AND HORMONES. The final exam will emphasize class material from the lectures and readings in PART IV: HIGHER ORDER FUNCTION AND MALFUNCTION but will also include material from prior lectures and readings. A 3-page paper entitled "Biopsychology in the Media" will be due on 4/27 and is worth 25 points. There will be in-class assignments throughout the semester that are worth 3 points each.

There will be no opportunities for extra credit.

ALL exams will be used to calculate your final grade.

The printed, 3-page paper must be submitted on Blackboard by the beginning of the class session (2:00 pm) on 4/27 to receive full credit. The total score on the paper will be reduced by 10% for each day the assignment is late.

It is our hope that each student learns the material and succeeds. Cheating will not be tolerated. Evidence of cheating on any exam will result in that exam's disqualification and a 0 being entered as that exam's result.

You will be tested on lecture material and information from the textbook. The lectures will highlight only some of the information covered in the text while going into greater detail on other topics and introducing new 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 TA or the instructors. Until exams are graded we cannot give grade-point cutoffs.

Accommodations are available for students who have disabilities. Please notify the TA or the instructors 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 Office of Disability Services (ODS). Please contact ODS at 312-413-2183 (voice) or 312-413-0123 (TTY).

Good luck and happy learning!!!!