

BEHAVIORAL PHARMACOLOGY 830:463 (Index 27341) Spring 2020

Mon and Thurs 10:20-11:40 ARC 105

Dr. George Wagner Busch Psychology rm 229 gcwagner@psych.rutgers.edu
office hours: Mon 9:00-10:00; phone:848-445-4660
optional text: Robert Julien "A Primer of Drug Action"

<u>date</u>	<u>topic</u>
1/23	Introduction
1/27	Neurophysiology/neuroanatomy
1/30	Principles of Behavior
2/3	Schedules of Reinforcement
2/6	Rate-dependent Effects
2/10	State-Dependent Learning & Drug Discrimination
2/13	General Pharmacology
2/17	Neuropharmacology
2/20	Tolerance: Behavioral and Pharmacological Chapters 1,2,3
2/24	EXAM I
2/27	Dopamine: Models of Parkinson's Disease
3/2	methamphetamine/MPTP toxicity
	conditioned avoidance
3/5	Animal Models of Schizophrenia
3/9	chronic amphetamine (rats, primates, humans)
	conditioned avoidance (neuroleptic potency order)
3/12	tardive dyskinesia
3/23	Animal Models of Drug Self-Administration
	substitution/choice
	place preference, classical conditioning
	schedule-induced
3/26	Animal Models of Developmental Disorders
3/30	early 6-HDA treatment Chapters 9,10,11,13,21
	autism/ADD
4/2	Exam II
4/6	Norepinephrine: Models of Depression
4/9	learned helplessness; DRL; behavioral despair
4/13	Serotonin: Models of Aggression
	resident-intruder and target biting
4/16	Animal Models of Food Intake
4/20	Amino Acids: Models of Anxiety
	Geller/Seifter; contrast
4/23	Pain/Opiates
4/27	tail flick, hot plate
	conditioned tolerance
4/30	Review Chapters 4,5,6,7,8,16
5/4	EXAM III
5/11	FINAL EXAM 9:00 to 10:00 (optional)

This is a comprehensive make-up exam. Your three highest grades will be used to determine your final grade. Should you miss any of the first three exams, you must take the final exam.

Capstone/Honors Requirement for Graduate Credit

A 30-page (double-spaced, 1" margins with size 11 font) term paper will be due May 4th.

The student must select a topic (disease state or pathological condition) from the above syllabus and have that topic approved by Professor Wagner no later than January 30th.

The term paper must have the following sections:

1) Introduction to identify the topic; 2) discussion of the symptoms of that disorder; 3) review of its etiology; 4) discussion of its epidemiology; 5) review of the neuropathology; and finally, 6) the pharmacotherapy available to treat the condition.

The students must provide a full outline of the paper to Professor Wagner by March 1st and a Progress Report to Professor Wagner by April 1st.

Student Code of Conduct in effect during class hours

Grading: Your top 3 exams scores will be averaged: 90-100 = A; 88 or 89 = B+; 80-87 = B; 78 or 79 = C+; 70-77 = C; 68 or 69 = D+; 60-67 = D; below 60 = F

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