

UNIVERSITY OF CALIFORNIA, SAN DIEGO, PSYC 181GS: DRUGS and BEHAVIOR

(An introduction to the neuropsychopharmacology of drug abuse and mental illness)

SYLLABUS, SUMMER 2017 (version of 7/1/17)

Instructor: Professor Stephan G. Anagnostaras
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Lecture: Mon - Thu, 11-1 ish pm (follow the calendar), and follow the facebook group

Optional Text: *Psychopharmacology: Drugs, the Brain and Behavior* (Meyer & Quenzer), 2011

Webpage: Class announcements, updated syllabi, sample test questions, relevant links, and extensive and complete Powerpoint lecture material for downloading will be available on Facebook and/or TritonEd. Grades will only be available on TritonEd.

Exams and Grading: The course grade will be based on the outcome of two short in-class exams (multiple choice questions). Exams 1-2 (July 14, Aug 5) will be 40 questions each, worth 40 points each, and non-cumulative. Exams will be taken on TritonEd or on paper, will allow the use of a double-sided note sheet, and will be taken during class (on your computer or tablet). You will be allowed access to your notes during the exam. Students may also complete one optional, 2-3 page, drug "monograph" which will be worth 20 points (due July 26). The total number of points 100 (2 exams = 80 points plus 1 monograph = 20 points). If you don't do the paper, your exams will be used equally to compute your grades. Grades will be based on a generous curve. However, if you skip any exams without proper excuse, or are found to be cheating on any part of the course, you will automatically receive an F for the course grade. All cheating will be prosecuted through the official UCSD process.

TENTATIVE LECTURE TOPICS AND SCHEDULE

(optional book readings are listed by Chapter for each section)

- Week 1** **Introduction to Psychopharmacology**
Class overview
A brief history of psychotherapeutic medicine
Drugs of antiquity, an overview
A history of recreational, ritualistic, drug use and abuse
Ancient ethnopharmacology and modern drug development
- Week 2** Principles of Pharmacology. Drug nomenclature & classification (Ch1)
Pharmacokinetics
Pharmacodynamics and Principles of Behavioral Pharmacology (Ch4)
Introduction to Synaptic Transmission
Synaptic transmission I. Synapses and Neurotransmitters (Ch2-3)
Synaptic transmission II. Receptors and Signal Transduction
- Week 3** The Neuropsychopharmacology of Selected Drugs
Psychostimulants: Amphetamines and cocaine (Ch11)
Psychostimulants: Ecstasy
Psychostimulants: Mechanism of action – Monoamine transmitters
Pharmacotherapy of Schizophrenia and Parkinson's Disease (Ch18)
EXAM 1 (July 14)
- Week 4** Opiates Pharmacology, behavioral pharmacology, and mechanism (Ch10)
Opiates Endogenous peptides and receptors / Pain Management
Smoking, Nicotine, & Acetylcholine neurotransmission (Ch6-Acetylcholine, Ch12)
Sedative-hypnotics & anxiolytics. Alcohol (Ch9)
Barbiturates & benzodiazepines (Ch17, Ch7)
Pharmacotherapy for fear, anxiety, and insomnia (Ch7) (may be movie; "Brain Transplant")
Monograph due (July 26 11:59pm)
- Week 5** Mind-altering drugs I: Marijuana (Ch13)
Mind altering drugs II: Hallucinogens: PCP, LSD, mescaline (Ch14, Ch6-Serotonin)
Theories of Addiction
Theories of Addiction (Ch8)
EXAM 2 (Aug 5)