UNIVERSITY OF CALIFORNIA, SAN DIEGO, Psyc 181GS:
PSYCHOPHARMACOLOGY: DRUGS and BEHAVIOR
(An introduction to the neuropsychopharmacology of drug abuse and mental illness)
SYLLABUS, Psyc 181GS (version of DD/MM/202Y)

Instructor: Professor Stephan G. Anagnostaras
Office: XXX (stephana@ucsd.edu)
Office Hours: XXX
Lecture: Tue & Thu, 10:30 – 1 pm, LOCATION Discussion and Review: Tue & Thu 2-3 pm
Optional Text: Psychopharmacology: Drugs, the Brain and Behavior (Meyer & Quenzer), 2013

Webpage: Class announcements, updated syllabi, sample test questions, relevant links, and extensive and complete Powerpoint lecture material for downloading will be available on Canvas.

Exams and Grading: The course grade will be based on the outcome of two short in-class exams (multiple choice questions). Exams 1-2 will be 50 questions each, worth 50 points each, and non-cumulative. Exams will be taken on Canvas, will be open book, and can be taken during class. A specified window of about 24 hours will be given (starting with scheduled class time) and within that window you will have 2 hours to complete each exam. Students will also complete 2, 1 page, drug "monographs" which will be worth 20 points each. These monographs will be "presented" using powerpoint in discussion. The total number of points 140 (2 exams = 100 points plus 2 monographs = 40 points). 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. Cheating on online exams will be strictly enforced through a highly effective algorithm and will be prosecuted through the official UCSD process – Don’t do It — it could even result in you being sent home.

TENTATIVE LECTURE TOPICS AND SCHEDULE
(optional book readings are listed by Chapter for each section)

Introduction to Psychopharmacology

Week 1
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
Monograph 1 due

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

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) (movie, “Brain Transplant”)
Monograph 2 due

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