

	Psy	657	001	Syllabus for Clinical Psychopharmacology
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Instructor:

Email:

Office:

Class Meets:

Online			
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Course Description:

This class will be delivered online. Students will be expected to read from their assigned readings, view lecture, discuss the material provided at a professional level and respond to specific questions on essay exams that demonstrate mastery of the material.

Textbook

The text is required reading.

Julien's Primer of Drug Action 14th Edition
by Claire D. Advokat (Author), Joseph E. Comaty (Author), Robert M. Julien Ph.D.
(Author)
Worth Publishers

This one is optional, but worth buying:

Handbook of Clinical Psychopharmacology for Therapists, Preston, Oneal, and Talaga

Course Objectives:

1. understand the basic principals of psychopharmacology as they pertain to psychotherapeutic drugs
2. understand the functions of metabotropic and ionobotropic receptors as they pertain to psychotherapeutic drugs
3. distinguish between the major classifications of neurotransmitters as they pertain to psychotherapeutic drugs
4. contrast agonist and antagonist drugs and describe how various drugs act as agonists and antagonists at various neurotransmitter receptors as they pertain to psychotherapeutic drugs
5. contrast direct and indirect actions of psychotherapeutic drugs
6. Develop mastery of the concepts pertaining to physiological, experiential, and behavioral effects and side effects of major drug classes that are used to treat psychopathology.
7. Understand the biological basis for psychopathology
8. Master the concepts pertaining to the effects of drug therapy on altering abnormal behavior

Lecture Schedule

Date	Topic	Reading Assignment
26-Aug	Week 1: Neurotransmission	Julien Ch. 1
2-Sep	Week 2: Pharmacokinetics	Julien Ch. 2
9-Sep	Week 3: Pharmacodynamics	Julien Ch. 3
16-Sep	Week 4: The Endocrine System	Sapolsky 2003
	The Limbic System	
	The Physiology of Stress	
	Stress, memory, and Depression	
23-Sept	Week 5: Depressive Disorders	Julien Ch. 12
	Diagnostic Considerations	Preston chapters 5,6, and 12
	Antidepressant Medications	
	Epigenetics	Handout
30 Sept	Week 6: BPD, PTSD, BD	Paris 2005
	PTSD	Preston Chapter 11
	Bipolar Disorder	Julien Ch. 14
	Mood Stabilizers	Julien Ch. 14
	Diagnostic Considerations	Preston Ch. 7
	Epigenetics	Handout

7-Oct	Week 7: Midterm Exam	
14-Oct	Week 8: The GABA-BZP receptor and systems	Blanchard, Yudko, & Blanchard 1993
	Diagnostic Considerations	Preston Chapter 8
	Axiolytics	Julien Ch. 5 & 13
	Obsessive-Compulsive Disorder	Preston Chapter 9
21-Oct	Week 9: The Dopamine System	Julien Ch. 4 & 7
	Psychotic Disorders	Julien Ch. 11
	Antipsychotic Medications	Julien Ch. 11
	Parkinson's Disease and its treatment	Julien Ch. 16
	Diagnostic Considerations	Preston Chapter 10
28-Oct	Week 10: Substance Related Disorders	Julien Ch 4
	Pharmacotherapy for substances	
	Reward Pathways	Julien Ch 4
	Addiction and Endocrinology	
	GABA	Julien Ch. 13
	Pharmacotherapy for alcohol addiction	
4-Nov	Week 11: Treating the Elderly	
	Acetylcholine systems of the brain	Julien Ch. 16
	Alzheimer's Disease and its treatment	Lleo 2006
11-Nov	Week 12: Nicotinic Systems of the Brain	Julien Ch 6
	Pharmacotherapy for nicotine addiction	
18-Nov	Week 13: Opiate systems of the Brain	Julien Ch. 10
	Pharmacotherapy for opiate addiction	Julien Ch. 10
25-Nov	Week 14: Pediatrics	
	Psychopharmacologic treatment of pediatric major depressive disorder	Boylan, (2007) Goodman (2007)
	Psychopharmacologic treatment of pediatric anxiety disorders	Reinblatt & Riddle (2007)
	Psychopharmacologic treatment of pediatric bipolar disorder	Smarty & Findling (2007)
2-Dec	Week 15: Marijuana	Julien Ch. 9
Dec 9	Final Exam	

Grading Policy

Three essay exams will be given. A paper and presentation on topics pertinent to class material will also be required. The exams, paper, and presentation will be equally weighted to determine the final score.

90%-100% A

80%-89% B

70%-79% C

60%-69% D

59% F

No Extra Credit will be made available.

Advising Statement

Advising is a very important resource designed to help students complete the requirements of the University and their individual majors. Students should consult with their advisor at least once a semester to decide on courses, check progress towards graduation, and discuss career options and other educational opportunities provided by UH-Hilo. Advising is a shared responsibility, but students have final responsibility for meeting degree requirements

Disability Statement

Any student with a documented disability who would like to request accommodations should contact the University Disability Services Office - Campus Center Rm 311, 933-0816 (V), 933-3334 (TTY) - as early in the semester as possible.

Additional Readings:

Blanchard RJ, Yudko, E.B., Rodgers, R.J., Blanchard, D.C. Defense system psychopharmacology: an ethological approach to the pharmacology of fear and anxiety. *Behav Brain Res*, 1993 Dec 20; Vol. 58 (1-2), pp. 155-65

Lléo, A.; Greenberg, S. M.; Growdon, J. H. CURRENT PHARMACOTHERAPY FOR ALZHEIMER'S DISEASE. By:. *Annual Review of Medicine*, 2006, Vol. 57 Issue 1, p513-533, 21p;

Paris, Joel. Recent Advances in the Treatment of Borderline Personality Disorder. *Canadian Journal of Psychiatry*, Jul2005, Vol. 50 Issue 8, p435-441, 7p

Yudko E, Blanchard, R.J. & Blanchard, D.C. Emerging themes in preclinical research on alcohol and aggression, *Recent Dev Alcohol*, 1997; Vol. 13, pp. 123-38

Boylan, Romero, & Birmaher. Psychopharmacologic treatment of pediatric major depressive disorder. *Psychopharmacology* (2007) 191: 27-38.

Goodman, Murphy, & Storch. Risk of adverse behavioral effects with pediatric use of antidepressants. *Psychopharmacology* (2007) 191: 87-96.

Reinblatt & Riddle. The pharmacological management of childhood anxiety disorders: a review. *Psychopharmacology* (2007) 191: 67-86.

Smarty & Findling. Psychopharmacology of pediatric bipolar disorder: a review. *Psychopharmacology* (2007) 191: 39-54.