



COURSE TITLE/SECTION: 7397/ 21177: Substance Abuse/Pharmacology

TIME: Tuesdays 9:00-12:00 pm

FACULTY: Patrick Bordnick, MPH, Ph.D.

OFFICE HOURS: M, T, 10-11

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Phone: 713-743-2086

I. Course

A. Catalog Description

Credit (3.0). Examines the biological and behavioral mechanisms of substance use, abuse, and dependence.

B. Purpose

The purpose of this course is to provide a conceptual understanding on the pharmacological actions and behavioral antecedents and consequences related to alcohol and drug abuse.

II. Course Objectives

Upon completion of this course, students will be able to:

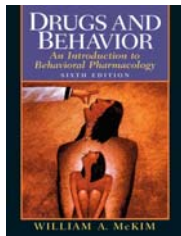
1. Describe how alcohol and drugs affect the brain and related biological systems;
2. Describe the affects of alcohol and drugs on human and animal behavior;
3. Describe the affects of intermittent and chronic alcohol and drug use on cognitive function;
4. Compare and contrast the differences between substance use, abuse, and dependence;
5. Demonstrate a basic knowledge of pharmacology related to alcohol, illicit substances; and psychotropic medications;
6. Make informed decisions on the use of validity and reliable assessment (biological and behavioral) methods for alcohol and drug abuse;

7. Explain how to utilize effective assessment methods in research and practice settings;
8. Evaluate and select current state-of -the science interventions for alcohol and drug dependence;
9. Conceptualize and interpret fact from fiction related to society's portrayal of race/ethnicity, economic, and/or environmental factors related to alcohol/drug use.

IV. Course Structure

This course will consist of lectures, applied assignments, multimedia demonstrations, and in-class activities. All students are expected to participate and contribute to all course activities to gain the full impact of the material presented.

V. Textbooks



McKim, W. (2006). *Drugs & Behavior: An introduction to behavioral pharmacology*. Prentice Hall. ISBN-10: 013219788x

VI Course Requirements

Proposed Schedule**

Date	Class	Chapters/Readings
January 18	1	Pharmacology Basics Chapter 1 <i>What is a drug?</i> <i>Administrations methods</i> <i>Therapeutic index</i>
January 25	2	Research and Behavior Chapters 1- 2 <i>Research on drug effects</i> <i>Development and testing</i> <i>Behavior</i> www.fda.gov

February 1	3	Tolerance, Withdrawal <i>Physical and behavioral effects</i> <i>Conditioning effects</i>	Chapter 3
February 8	4	Nervous System <i>Brain, neurotransmitters</i>	Chapter 4
February 15	5	Addiction <i>History</i> <i>Abuse & Dependence</i> <i>Reinforcement, sensitization</i> <i>Behavioral economics</i>	Chapter 5
February 22	6	Alcohol	Chapter 6
March 1	7	Sedative Hypnotics Anesthetics/Inhalants	Chapters 7 & 8
March 8	8	Mid-Term Examination –	Chapters 1-5
March 14		Spring Break 14-19	
March 22	9	Nicotine	Chapter 9
March 29	10	Caffeine/ Stimulants	Chapters 10 & 11
April 5	11	Opiates & Cannabis	Chapter 12 & 15
April 12	12	Antipsychotic Drugs	Chapters 13 & 14

Mood Stabilizers

April 19	13	Presentations
April 26	14	Presentations
TBD	Final	Final

***Subject to change*

VII. Evaluation and Grading

Assignments

There will be three assignments for this course. Handouts will be provided detailing specific tasks for each assignment.

1. Midterm exam – Chapters 1-5.
2. Pop Quizzes
3. Multimedia group presentation – Groups of 3 students will design and develop a multimedia presentation 10-15 minutes in length. Presentations types include: music video, video skit, movie, interactive web site, slide show, etc. Topics will be assigned to each group after mid-term.
4. In addition to the assignments, students are expected to review the material in the textbook chapters and be prepared for class discussion.

Grading

<u>Grading</u>	<u>Points</u>
Mid-Term	40
Quizzes	10
Final Presentation	40
Attendance/Participation	10
<hr/> Total	<hr/> 100

Determination of Grade

A = 96-100% of the points	C+ = 76-79.9%
A- = 92-95.9%	C = 72-75.9%
B+= 88-91.9%	C- = 68-71.9%
B = 84-87.9%	D = 64-67.9%
B- = 80-83.9%	F = Below 64%

VIII. Attendance

Students are expected to attend the full length of each class session, to be familiar with that week's assigned readings, and to be prepared to constructively contribute to class discussion. More than 2 absences will result in lowering your end of term grade (A to B, B to C, etc.).

IX. Bibliography – Posted on web site.

X. Policy on academic dishonesty and plagiarism

Students are expected to demonstrate and maintain a professional standard of writing in all courses, do one's own work, give credit for the ideas of others, and provide proper citation of source materials. Any student who plagiarizes any part of a paper or assignment or engages in any form of academic dishonesty will receive an "I" for the class with a recommendation that a grade of F be assigned, subsequent to a College hearing, in accordance with the University policy on academic dishonesty. Other actions may also be recommended and/or taken by

the College to suspend or expel a student who engages in academic dishonesty.

All papers and written assignments must be fully and properly referenced using APA style format (or as approved by the instructor), with credit given to the authors whose ideas you have used. If you are using direct quotes from a specific author (or authors), you must set the quote in quotation marks or use an indented quotation form. For all direct quotes, you must include the page number(s) in your text or references. Any time that you use more than four or five consecutive words taken from another author, you must clearly indicate that this is a direct quotation. Please consult the current APA manual for further information.

Academic dishonesty includes using any other person's work and representing it as your own. This includes (but is not limited to) using graded papers from students who have previously taken this course as the basis for your work. It also includes, but is not limited to submitting the same paper to more than one class. If you have any specific questions about plagiarism or academic dishonesty, please raise these questions in class or make an appointment to see instructor. This statement is consistent with the University Policy on Academic Dishonesty that can be found in your UH Student Handbook.

XI. Addendum: Whenever possible, and in accordance with 504/ADA guidelines, the University of Houston will attempt to provide reasonable academic accommodations to students who request and require them. Please call 713-743-5400 for more assistance.