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Fall 9-1-2008

PHAR 110N.00: Use and Abuse of Drugs

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Recommended Citation

Freeman, David; Parker, Keith; George, Katie; Gerdes, John; Cardozo-Pelaez, Fernando; and Wells, Sandra, "PHAR 110N.00: Use and Abuse of Drugs" (2008). *University of Montana Course Syllabi*. 11979. <https://scholarworks.umt.edu/syllabi/11979>

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Instructor

David Freeman, Keith Parker, Katie George, John Gerdes, Fernando Cardozo-Pelaez, and Sandra Wells

Time & Place
Course Coordinators

Mon, Wed, Fri @ 2:10–3:00 pm, SB 169

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Office: SB 285C; e-mail: sandra.wells@umontana.edu**Text** *Drugs, Society and Human Behavior, Ksir, Hart & Ray, 12th edition*Students will be expected to access course materials from *Blackboard* and the text publisher's web site. This course satisfies 3 credits of General Education Requirements in the Natural Sciences Perspective.

<u>Date</u>	<u>Instr.</u>	<u>Chap.</u>	<u>Topic</u>
M 8/25	kp	1	Drug Use: An Overview
W 8/27	kp	1	“ “
F 8/29	kp	2	Drug Use as a Social Problem
W 9/3	kp	3	Drug Products & Regulation
F 9/5	kp	3	“ “
M 9/8	df	4	Nervous System
W 9/10	df	4	“ “
F 9/12	df	4	“ “
M 9/15	df	5	Actions of Drugs
W 9/17	df	5	
F 9/19	df	5	“ ”
M 9/22	fc	6	Stimulants
W 9/24		1-4	EXAM 1
F 9/26	fc	6	Stimulants
M 9/29	fc	6	Methamphetamine video
W 10/1	kp	11	Caffeine
F 10/3	kp	7	Depressants
M 10/6	kp	7	Depressants
W 10/8	kp	8	Drugs for Mental Disorders
F 10/10	kp	8	“ “
M 10/13	df	13	Opiates
W 10/15		5-7,11	EXAM 2
F 10/17	df	13	Opiates

Exams: The course has 4 mid-semester exams and a comprehensive final. The course grade will be based on a student's *best three* mid-semester exams *and the final*. All exams must be taken on the scheduled days and times. **All students must take the final.**

Grading:

- The course is graded on a curve.
- The plus/minus grading system will be used.
- Graded in-class assignments may be given.

<u>Date</u>	<u>Instr.</u>	<u>Chap.</u>	<u>Topic</u>
M 10/20	jg	14	Hallucinogens
W 10/22	jg	14	“
F 10/24	fc	15	Marijuana & Hashish
M 10/27	fc	15	“
W 10/29	kg	16	Performance Enhancing Drugs
F 10/31	kg	16	“
M 11/3	sw	9	<u>Alcohol</u>
W 11/5	sw	9	“
F 11/7	sw	9	“
M 11/10	sw	10	Tobacco
W 11/12		8,13-16	EXAM 3
F 11/14	sw	10	Tobacco
M 11/17	df	12	OTC's & Dietary Supplements
W 11/19	df	12	“
F 11/21	kp		Oral Contraceptives
M 11/24	kp		“
M 12/1	kp	17	Preventing Substance Abuse
W 12/3		9,10,12	EXAM 4
F 12/5	kp	18	Treating Substance Abuse and <u>Course Evaluation</u>
W 12/10		1-18	COMPREHENSIVE FINAL 1:10-3:10 PM

Students are responsible for picking up exam results to verify grading of exams. Any discrepancies must be reported to the course coordinator within ten days after the exam scores are posted. Grade reports are distributed in the 3rd floor lobby of the Skaggs building, near room 374.

Students seeking General Education Credit for the course must register for a traditional (letter) grade.

For each exam, please bring:

- Scantron Wide Form **F-288** from the bookstore,

- #2 pencils with good erasers,
- UM ID Card

Attendance

- Class attendance is strongly encouraged but is not required. However, you will be responsible for all material presented in class, including changes made to the syllabus or exam schedule.

Using the Web in this course

Instructor Materials

- The course instructors will place PowerPoint, Word, and other instructional materials on *UM BlackBoard*.
- Students are encouraged to copy these materials, if they are available, and bring them to class.
- If you have copies of the materials, then you can listen to the lecture and add additional notes as necessary.

Accessing Blackboard

- Click the *Blackboard* Login icon under *Quick Links* on the UM Homepage
- Login using your UM *Username* and *Password*. Login help is accessible from the Blackboard Login page.

Textbook Web Materials

- Access the McGraw-Hill site for the 12th editions is at www.mhhe.com/ksir11e
- Useful information under Student Edition: By Chapter

General Education and Learning Outcomes

- The primary purpose of this course is for you to gain an understanding of the actions of drugs of abuse.
- This is achieved by the following learning outcomes. Students will understand:
 - Basic social/psychological reasons for substance abuse
 - Current methodologies for preventing and treatment of substance abuse
 - Basic physiological and biochemical theories of substance addiction and dependence
 - Fundamentals of the nervous system at the biochemical, tissue, and organ level
 - Basic physiological and biochemical principles of drug action
 - The history, actions, side effects, mechanism of action, and toxicity of the following drugs: Stimulants, Depressants, Drugs for Mental Disorders, Alcohol, Tobacco, Caffeine, OTC drugs, Opiates, Hallucinogens, Marijuana, Drugs used in sports, Oral Contraceptives
- Fundamental concepts of physiology, pharmacology, neuroscience, and chemical science are introduced.
- Students learn about the “scientific method” through exploration of the discovery, development, modification and use of drugs.

Study Guide

- The following information is presented in the text and lecture for each drug category (Chapters 6-16), and is the basis for examinations over this material.
- Different aspects may be emphasized for each drug category, depending upon their importance to your understanding of the actions and use of the drug.
 - *History of the drug*
 - *What the drug does:*
 - Actions of the drug*
 - Side effects of the drug*
 - Toxic effects of the drug*
 - *How the drug acts (its mechanism of action):*
 - The neurotransmitter, receptor, or enzyme that the drug affects*
 - How (in what manner) the drug affects the receptor (agonist, blocker, etc)*
 - *Use of the drug as a therapeutic agent in medical practice*
 - *How the actions or use of different drugs in a category compare*
 - *Special problems and considerations with the drug*
- Students are encouraged to study:
 - *The textbook*
 - *Class lecture notes*