

PSYC 316 Drugs, Society, and Human Behavior Syllabus

Objective: The purpose of this syllabus is to guide the participant in the requirements, demands, logistics and expectations of this course.

Getting Help:

To receive technical assistance on issues related to WebCT contact:

Academic Instructional Technology Help Desk

ES 102

Spring and Fall Semester: Monday-Thursday 8:00 a.m. - 9:00 p.m. Friday 8:00 a.m. - 5:00 p.m.
MST/MDT

Summer Semester: Monday-Friday 7:30 a.m.-4:30 p.m. MDT

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Psychology Department

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Welcome from your instructor

Welcome to Drugs, Society, and Human Behavior!

This is an upper division psychology elective course. It is applicable to anyone interested in learning about the role of drugs in our society and how drugs affect our behavior. The course covers three major areas surrounding drugs and their use. In the first major area you will get a general overview of the role of drugs throughout history and in today's society. You will also examine the biological actions of drugs. In the second major area you will examine specific drugs and how they influence society and behavior. Finally, in the third section you will learn about drug treatment and prevention.

As this course progresses, you will be required to complete several assignments, quizzes, tests and a major paper. Please send your assignments to me as you complete them through the assignments tab. Quizzes will be completed through the assessment tab. Exams will be completed through the assessment tab. Please try to stay on task as you move through the material and contact me with any questions.

I look forward to working with you.

Sincerely,

Dr. Mitchell

Course Description: This course addresses the social, biological, and psychological factors of the major drugs associated with therapeutic and recreational use and abuse. Topics include drug use as a social problem, theories and treatment of addiction, how drugs work, and the detrimental health effects of drug use.

Credit hours: 3.00

Course Prerequisites:

PSYC 101 minimum grade C- or T and PSYC 211 minimum grade C- or T and PSYC 245 minimum grade C- or T

Textbook:

To order textbooks or obtain information about book titles you may go to www.exstudies.adams.edu and click on the “ASC Bookstore” icon.

Use **Section Number: 1066** to order books from Bookstore site.

Ksir, C., Hart, C.L., & Ray, O. (2006). *Drugs, Society, and Human Behavior*. (13th ed). Boston: McGraw Hill. ISBN: 978-0-07-338079-7

Student Learning Outcomes:

The student will:

1. Recognize, differentiate, and explain the influence of drugs on human behavior, cognitions, and emotions.
2. Identify biological systems influenced by drugs, and how these systems adapt to habitual drug use.
3. Review, interpret, and evaluate research literature of pharmacology and behavior.
4. Describe how culture and environment influences drug taking behaviors.
5. Examine and differentiate between recreational and therapeutic drug use, as well as the various methods of treating drug abuse.

Course Requirements:

- Students will be required to complete five exams. Four of the exams are non-comprehensive and are worth 50 points. Students will have 1 hour and 15 minutes to complete the non-comprehensive exams. The fifth exam will be a comprehensive final that is worth 100 points. Students will have two hours to complete the comprehensive final.
- Exams will include multiple choice, short answer, matching, or true-false questions. Exams will be completed using the assessments tab on WebCT. They must be completed in 1 hour and 15 minutes.

- Students will also complete 14 quizzes. Quizzes will consist of multiple choice questions and are worth 5 points each. Quizzes will be completed using the assessments tab on WebCT. You will have 10 minutes to complete each quiz.
- Exams and quizzes will assess student learning of information presented in the course notes, course textbook, and any additional resources that are presented in the lessons.
- Students will complete four opinion papers. The papers will be one-two pages long and address controversial topics in drug use and abuse. Students will be required to respond to a question and support their opinion with research. Example topics for the opinion papers include the following: Should marijuana be legal? Should the drinking age be lowered to 18? Do you think methadone should be given to treat heroin addiction? Each opinion paper is worth 25 points. Papers should be formatted according to the instructions on WebCT.
- Students will also complete a review paper on a drug that is discussed in their textbook or in their course notes. The paper will be written in the format of the American Psychological Association (APA) and be 6-7 pages in length (excluding title and reference pages). Formatting instructions can be found on WebCT.

The paper should address the following:

1. What is the history of the drug?
2. Why is the drug a problem to society?
3. What are problems or issues that surround the drug?
4. How does the drug work? What are the adverse health effects of taking the drug?
5. What are the psychological and physiological effects of the drug?
6. What is being done to combat the adverse health effects associated with the drug?
7. Are there any current treatments for addiction to the drug? How effective are they?
8. What recommendations do you have for a drug education/prevention program for this particular drug?

Papers must reference at least 5 peer reviewed journal articles. Papers are worth 50 points. Grading will be based on the quality of the writing, the quality of the information presented and adherence to APA formatting.

Course Instructions:

After reading each chapter, the corresponding lecture notes, and any additional resources presented in the lessons you should answer the review questions that follow. Completion of the review questions will help ensure that you understand the material. The review questions will not be submitted or graded; however, they will help you prepare for the lesson quiz and help you prepare for the module exam. If you have trouble completing the review questions or would like me to look over your answers, you are welcome to submit them via the assignment tab and I will read them and let you know if your answers are correct.

Throughout the course you will be assigned 4 opinion papers. These should be completed with the corresponding lesson. You will submit them to me through the assignment tab.

You will be allowed to take the quizzes only after you have the assignments and opinion papers that come before that quiz. Similarly, you will be allowed to take the exams only when you have completed the opinion papers and the quizzes for that particular exam. The questions on the quizzes and the exams will be similar to the review questions.

YOU ARE NOT ALLOWED TO USE YOUR BOOK OR NOTES FOR THE QUIZZES OR EXAMS.

If you have any questions, concerns, or problems, please do not hesitate to contact me.

Course Time Limits:

You have one year from your date of registration to complete this course. If you are receiving federal or private financial aid, requirements may differ. However, the minimum requirement for course completion, regardless of the number of credit hours, is six weeks. No student may complete course requirements in less than six weeks.

It is important to schedule your course study to fit into your academic plan. If you have important deadlines to meet such as graduation, be sure to complete and submit all of your assignments and take the final examination at least five weeks before the credit is needed. It is your responsibility to ensure the credits for this course will apply toward graduation or certification deadlines.

GRADE DISTRIBUTION AND SCALE:

In alignment with ASC academic policies, no D may apply to a major or minor field.

Point Distribution:

Quizzes	70 points
Exam I	50 points
Exam II	50 points
Exam III	50 points
Exam IV	50 points
Research Paper	50 points
Opinion Papers	100 points
Comprehensive Final Exam	100 points

Total Points 520 points

Final Grades

Quizzes, exams, opinion papers, and your research paper are equally weighted. Your final grade will be based on how many points you earn out of the possible 520 points. Grades will be assigned according to the following scale:

Grade	Percentage
A	100-93
A-	92-90
B+	89-87
B	86-83
B-	82-80
C+	79-77
C	76-73
C-	72-70
D+	69-67
D	66-60
F	<60

Course Schedule

Module 1-Lesson 1 - Drug Use: An Overview

Objectives:

1. Develop a frame work for understanding specific drug use.
2. Apply the four principles of drug use.
3. Describe the general trends of drug use in the United States.
4. Understand adolescent correlates, motives, and antecedents for drug use.

Assignments:

1. Read chapter 1 in the textbook and go over the online notes for chapter 1.
2. Complete the following review questions:
 - a. What types of substances might be classified as psychoactive drugs?
 - b. What are the four principles of drug use?
 - c. How has drug use in the United States changed over time?
 - d. How is personality related to use of drugs?
 - e. What are some antecedents or motives of drug use?

- f. What do the Monitoring the Future Project and the National Survey on Drug Use and Health tell us about trends in marijuana use?

Quiz 1

After completion of the assignments for lesson 1, you should take quiz 1 on WebCT. The quiz consists of 5 multiple choice questions. You will have 10 minutes to complete the quiz. You are not allowed to use your textbook or notes for the quiz.

Module 1-Lesson 2 - Drug Use as a Social Problem

Objectives:

1. Identify the different approaches the federal government has had for drug regulation.
2. Distinguish between the different types of toxicity.
3. Describe the DAWN system.
4. Define tolerance, physical dependence, and behavioral dependence.
5. Understand the diagnostic criteria for substance abuse and substance dependence.
6. Describe the different theories of dependence.
7. Describe the four ways that drug use might increase crime.

Assignments:

1. Read chapter 2 in the textbook and go over the online notes for chapter 2.
2. Visit the DAWN website - <http://dawninfo.samhsa.gov/> and answer the following questions:
 - a. What two types of drug related events does DAWN collect data on?
 - b. Does DAWN collect data on prescription drugs or drugs that are not illegal?
 - c. How many hospitals in Denver, CO are included in the DAWN sample?
 - d. When was DAWN redesigned? What issues did DAWN focus on during the redesign?
3. Complete the following review questions:
 - a. What three concerns of drug use led the government to attempt to control drug use?
 - b. Identify and define the five types of toxicity.
 - c. What is DAWN? What does DAWN tell us about different drugs?
 - d. What are the three steps for substance dependence?
 - e. Identify the different views of dependence.
 - f. How is drug use related to crime?

Quiz 2

After completion of the assignments for lesson 2, you should take quiz 2 on WebCT. The quiz consists of 5 multiple choice questions. You will have 10 minutes to complete the quiz. You are not allowed to use your textbook or notes for the quiz.

Module 1-Lesson 3 - Drug Regulations

Objectives:

1. Understand the major drug laws and their influence on society.
2. Describe the process for the approval of new pharmaceutical drugs.
3. Understand the controlled substances schedules.
4. Explain the major types of drug testing.

Assignments:

1. Read chapter 3 in the textbook and go over the online notes for chapter 3.
2. Complete the following review questions:
 - a. How were early drug laws influenced by racism and fear in a America?
 - b. What are patent medicines? Why were they a problem in America between the 1860s and early 1900s?
 - c. Identify how each of the following laws regulated the sale and use of drugs.
 - i. 1906 Pure Food and Drug Act
 - ii. Harrison Act of 1914
 - iii. 1912 Sherley Amendment
 - iv. 1938 Food, Drug, and Cosmetic Act
 - v. 1962 Kefauver-Harris Amendments
 - vi. 1983 Orphan Drug Act
 - vii. Prescription Drug Marketing Act
 - viii. FDA Modernization Act
 - ix. 1994 Dietary Supplement Act
 - x. 18th Amendment
 - xi. Marijuana Tax Act
 - xii. 1956 Narcotic Act
 - xiii. 1965 Drug Abuse Control Amendment
 - xiv. Controlled Substance Act
 - xv. 1986 Amendment
 - xvi. 1988 Omnibus Drug Act
 - d. How much is the US spending per year on drug regulation? Is the regulation effective?
3. Opinion Paper 1: In chapter 2 you learned how drug toxicity, drug dependence, and crime associated with drugs has led to governmental regulation of drugs. However, you learned in chapter 3 that many of the drugs laws were passed as a result of racism and fear. Additionally, many of the drugs that are controlled (such as marijuana or heroin) have the same association with toxicity, dependence, and crime as other drugs that are legally available (such as nicotine or alcohol). Do you think the current drug laws adequately address the problems of toxicity, dependence, and crime? Why or why not? If so, what else can be done to reduce drug toxicity, drug dependence, and drug related crime? If not, how can laws be reformed to address these problems? You should answer these questions in a 1-2 page paper and submit it to me via WebCT. You should support your opinions with at least two credible references. The paper should be formatted according to the "Opinion Paper Formatting" instructions on WebCT. The instructions also identify what "credible" references are.

Quiz 3

After completion of the assignments for lesson 3 you should take quiz 3 on WebCT. The quiz consists of 5 multiple choice questions. You will have 10 minutes to complete the quiz. You are not allowed to use your textbook or notes for the quiz.

Module 1-Lesson 4 - How Drugs Work

Objectives:

1. Understand how drugs alter communication within the nervous system.
2. Know the general structure of the neuron.
3. Understand the action potential.
4. Describe the roles of the branches of the nervous system.
5. Be able to identify specific neurotransmitter pathways within the brain.
6. List and describe the six categories of drugs.
7. Explain the dose-response relationship
8. Describe how drugs interact with neurons to produce effects on the body.
9. Understand how the route of drug administration will influence its effects.

Assignments:

1. Read chapters 4 and 5 in the textbook and go over the online notes for chapters 4 and 5.
2. Complete the following review questions:
 - a. What is the blood-brain barrier and what is its purpose?
 - b. Identify the major parts of the neuron and their functions
 - c. Describe how the action potential occurs. Make sure to identify the ion that crosses the cell membrane to cause the action potential.
 - d. What is the difference between hyperpolarization and depolarization?
 - e. Identify each branch of the nervous system and its function.
 - f. Identify the role of each of the following neurotransmitters in behavior and where they are found in the brain.
 - i. Dopamine
 - ii. Acetylcholine
 - iii. Norepinephrine
 - iv. Serotonin
 - v. GABA
 - vi. Glutamate
 - vii. Endorphins
 - g. What is a synapse?
 - h. What is the difference between an agonist and an antagonist?
 - i. What is the difference between the specific effects of a drug and the nonspecific effects of a drug?
 - j. Identify the major classification of psychoactive drugs.
 - k. What is a dose-response curve? What does it tell you about a drug?
 - l. How is a drug's therapeutic index calculated? What does it tell you about a drug?
 - m. How does lipid solubility influence the absorption of a drug?

- n. Identify the major routes of drug administration. How does route of administration influence the effects of the drug?
- o. How are drugs deactivated?
- p. Identify and define the three types of tolerance.

Quiz 4

After completion of the assignments for lesson 4 you should take quiz 4 on WebCT. The quiz consists of 5 multiple choice questions. You will have 10 minutes to complete the quiz. You are not allowed to use your textbook or notes for the quiz.

Examination I

Your exam covers lessons 1-4 (chapters 1-5 in your textbook). You will have 1 hour and 15 minutes to complete the exam. The exam will include multiple choice questions and several short answer questions.

Module 2-Lesson 5 - Stimulants: Cocaine and the Amphetamines

Objectives:

1. Discuss the history of cocaine and amphetamine use.
2. Describe the different forms of cocaine and amphetamines that are available.
3. Understand the mechanisms of action of cocaine and the amphetamines.
4. Discuss the behavioral and physiological effects of cocaine and the amphetamines.
5. Discuss how cocaine and amphetamines will influence the development of the fetus.
6. Identify the withdrawal symptoms of cocaine and amphetamines.
7. Discuss treatment options for individuals with cocaine and amphetamine addictions.

Assignments:

1. Read chapter 6 in the textbook and go over the online notes for chapter 6.
2. Complete the following review questions:
 - a. What affect do stimulants have on the body?
 - b. Where was cocaine first used?
 - c. List and describe the different forms of cocaine.
 - d. How does cocaine produce anesthesia?
 - e. How does cocaine work?
 - f. List and describe the different forms of amphetamines.
 - g. Amphetamines were developed as a substitute for _____ a chemical that can be found in the Chinese herb ma huang.
 - h. How do amphetamines work?
 - i. What are the medical uses of amphetamines?
 - j. What are the withdrawal symptoms of cocaine and the amphetamines?

Quiz 5

After completion of the assignments for lesson 5 you should take quiz 5 on WebCT. The quiz

consists of 5 multiple choice questions. You will have 10 minutes to complete the quiz. You are not allowed to use your textbook or notes for the quiz.

Module 2-Lesson 6 - Stimulants: Nicotine and Caffeine

Objectives:

1. Discuss the history of nicotine.
2. Understand the controversy surrounding secondhand smoke.
3. Identify the health risks associated with chronic smoking or use of tobacco.
4. Describe why smoking is not immediately lethal despite the toxicity of nicotine.
5. Discuss the physiological and pharmacological effects of nicotine.
6. Describe what occurs during nicotine poisoning.
7. Describe the various methods for treatment of smoking.
8. Describe the history of coffee, tea, and chocolate.
9. Understand the caffeine content in coffee, tea, chocolate, soda, and energy drinks.
10. Explain how caffeine affects the brain.
11. Describe how caffeine affects the body.
12. Understand the health effects of caffeine use.

Assignments:

1. Read chapters 10 and 11 in the textbook and go over the online notes for chapters 10 and 11.
2. Find additional information about caffeine use and caffeine content at the following website: <http://faculty.washington.edu/chudler/caff.html>.
3. Complete the following review questions:
 - a. How was tobacco viewed in early American history?
 - b. What adverse health effects are associated with the use of tobacco?
 - c. What is passive smoking?
 - d. What affects does smoking during pregnancy have on the development of the child?
 - e. Identify the pharmacological, physiological, and behavioral effects of nicotine.
 - f. What things are available to help people quit smoking?
 - g. Describe the legends that are associated with coffee, tea, and chocolate.
 - h. What group of stimulant drugs does caffeine belong to?
 - i. How does coffee get decaffeinated?
 - j. What are the physiological and behavioral effects of caffeine?
 - k. How does caffeine work?
 - l. What health concerns are associated with caffeine use?
 - m. What are the unique xanthines found in tea and chocolate?
 - n. Approximately how much caffeine is found in each of the following:
 - i. 5 oz of coffee
 - ii. 1 oz of dark chocolate
 - iii. 5 oz of tea
 - iv. 12 oz of soda

Quiz 6

After completion of the assignments for lesson 6 you should take quiz 6 on WebCT. The quiz consists of 5 multiple choice questions. You will have 10 minutes to complete the quiz. You are not allowed to use your textbook or notes for the quiz.

Research Review Paper Topic and Two References Due

Before continuing on, you must submit your paper topic along with two references. The references should be journal articles that you obtain from the library databases. PsycInfo or PubMed will both have information on specific drugs. If you are having difficulty choosing a topic or finding references please let me know. You do not need to send the entire article to me, please just send the reference for the article. You may submit the topic and references via email or via WebCT.

Module 2-Lesson 7 - Depressants: Alcohol

Objectives:

1. Understand the production and alcohol content of the major types of beverages.
2. Discuss the history of alcohol use.
3. Understand recent alcohol trends.
4. Discuss how consumption rate, body size, and gender will influence BAC.
5. Explain the behavioral effects of alcohol at high and low doses.
6. Discuss the mechanism of action for alcohol.
7. Discuss the role of alcohol in traffic accidents, sexual behavior, and violence.
8. Differentiate between fetal alcohol syndrome and fetal alcohol effects.
9. Identify the health effects associated with long-term alcohol use.
10. Discuss alcohol dependence and withdrawal.

Assignments:

1. Read chapter 9 in the textbook and go over the online notes for chapter 9.
2. Complete the following review questions:
 - a. Describe the processes of fermentation and distillation.
 - b. How can you tell what percent of alcohol a beverage contains?
 - c. What is the difference between red and white wine?
 - d. Why did prohibition occur? Was it effective?
 - e. What factors influence drinking behavior? Identify some trends in alcohol consumption in the United States.
 - f. What factors will influence how BAC climbs?
 - g. How does alcohol exert its effects on the body?
 - h. What are the effects of alcohol on behavior and physiology?
 - i. What is alcohol myopia?
 - j. Describe the disorders that are associated with long-term alcohol use.

- k. What is the difference between child with fetal alcohol syndrome and fetal alcohol effects?
- l. Describe the withdrawal symptoms that appear after long-term heavy use of alcohol.
3. Opinion paper 2: For several years, society has debated the issue of whether or not to lower the drinking age to 18. Listed below are the common arguments for lowering the drinking age and the common arguments for keeping the drinking age at 21.

Yes - Lower the drinking age

Setting a particular drinking age is arbitrary and illogical. Moreover, setting the drinking age at 21 in America is unrealistic and unenforceable because other legal privileges are conferred at age 18. Americans can vote in elections, serve in the military, sign contracts, and marry without parental control at 18. By setting the drinking age higher, we treat young adults like children. Some young people engage in responsible social drinking at age 16, while many over 35 routinely display immaturity when consuming alcohol.

No - Keep the drinking age at 21

Eighteen to twenty year old kids cannot handle the right to drink alcohol. A response to this issue from the National Highway Safety Administration states that it is perfectly logical to say that a person may be ready to accept a certain right at one age, but not another right until a later age. An 18 year old may be perfectly capable of carrying out a military service but at the same time not be ready to drink. After all, individuals in the military receive extensive training and live in a highly disciplined environment. Additionally, research indicates that the brain is still developing between the ages of 18 and 21. Consumption of alcohol at a young age may adversely influence brain development.

For opinion paper 2, you should consider both sides of the argument and then write a 1-2 page paper that expresses which side you agree with and why. As before, you should submit the paper to me via WebCT. You should support your opinion with at least two credible references. The paper should be formatted according to the “Opinion Paper Formatting” instructions on WebCT. The instructions also identify what “credible” references are.

Quiz 7

After completion of the assignments for lesson 7 you should take quiz 7 on WebCT. The quiz consists of 5 multiple choice questions. You will have 10 minutes to complete the quiz. You are not allowed to use your textbook or notes for the quiz.

Module 2-Lesson 8 - Depressants: Sedatives and Hypnotics

Objectives:

1. Understand the difference between sedative and hypnotic drugs.
2. Describe the history and mechanism of action of the barbiturates and the benzodiazepines.
3. Understand how health concerns regarding barbiturate use led to the development of the benzodiazepines.

4. Describe the substances that are commonly misused as inhalants.
5. Understand how GHB works and the effect of using this drug.

Assignments:

1. Read chapter 7 in the textbook and go over the online notes for chapter 7.
2. Read the NIDA InfoFacts on GHB, Rohypnol and Ketamine.
3. Complete the following review questions:
 - a. What is the difference between a sedative and a hypnotic?
 - b. How are barbiturate drugs grouped?
 - c. What are the major effects of barbiturates?
 - d. Why are barbiturates not currently prescribed for sleep disorders or anxiety?
 - e. Identify the effects of and problems with meprobamate and methalqualone.
 - f. How are the benzodiazepines different from the barbiturates?
 - g. What are anxiolytics?
 - h. Identify the medical uses of barbiturates and benzodiazepines.
 - i. What is the mechanism of action of the barbiturates and benzodiazepines?
 - j. What substances are commonly used as inhalants?
 - k. What is GHB? How does it work?

Quiz 8

After completion of the assignments for lesson 8 you should take quiz 8 on WebCT. The quiz consists of 5 multiple choice questions. You will have 10 minutes to complete the quiz. You are not allowed to use your textbook or notes for the quiz.

Examination II

This exam covers lessons 5-8 (chapters 6-7, 9-11 in your textbook). You will have 1 hour and 15 minutes to complete the exam. The exam will include multiple choice questions and several short answer questions.

Module 3-Lesson 9 - Opiates

Objectives:

1. Describe the historical uses of opium and its derivatives.
2. Understand how the opium trade led to the Opium Wars between Great Britain and China.
3. Explain how the typical opioid user has changed over time.
4. Understand how opioid antagonist can be used to stop overdose and treat addiction.
5. Describe the withdrawal symptoms associated with opioid use.
6. Identify the opioid triad.
7. Identify the medical uses for the opioids.

Assignments:

1. Read chapter 13 in the textbook and go over the online notes for chapter 13.

2. Complete the following review questions:
 - a. Where does opium come from and how is it harvested?
 - b. What were the opium wars and why were they fought?
 - c. List the opioids that are presented in the text. Also, list their medicinal uses and behavioral and physiological effects.
 - d. What type of heroin is typically produced by Mexico?
 - e. How do opioids work? What receptor is primarily responsible for producing the reinforcing effects?
 - f. What opioid antagonists are mentioned in the text? What are they used for?
 - g. What role do conditioned reflexes play in heroin tolerance and addiction?
 - h. What three symptoms indicate use or possible overdose of opioids?
 - i. Describe the typically heroin user.
 - j. What are the withdrawal symptoms of heroin?
 - k. What drug may be given to treat heroin addiction?

Quiz 9

After completion of the assignments for lesson 9 you should take quiz 9 on WebCT. The quiz consists of 5 multiple choice questions. You will have 10 minutes to complete the quiz. You are not allowed to use your textbook or notes for the quiz.

Module 3-Lesson 10 - Hallucinogens

Objectives:

1. Identify the different classification of hallucinogenic drugs.
2. Identify the difference between indole hallucinogens and catechol hallucinogens.
3. Understand the history of LSD, the effects of LSD on physiology and behavior, and the pharmacology of LSD.
4. Describe the active ingredients in hallucinogenic mushrooms and peyote.
5. Understand the effects and pharmacology of DMT, PCP, and ketamine.
6. Describe the anticholinergic hallucinogens.

Assignments:

1. Read chapter 14 in the textbook and go over the online notes for chapter 14.
2. Read the article "The Lure of Ecstasy."
3. Complete the following review questions:
 - a. What relationship do the hallucinogens have to religion and animism?
 - b. How are the hallucinogens classified?
 - c. What is the difference between the indole hallucinogens and the catechol hallucinogens?
 - d. Who discovered LSD and how did he discover it?
 - e. Since its discovery, what uses for LSD have been studied?
 - f. Describe the effects of LSD.
 - g. Where is psilocybin found and what is it used for?
 - h. What plant seeds can produce a hallucinogenic effect?

- i. What plant is mescaline derived from?
- j. Describe the pharmacology and medical uses of PCP.
- k. What the behavioral effects of PCP?
- l. How do the anti-cholinergic hallucinogens work?
- m. What are the effects of the anti-cholinergic hallucinogens?
- n. List the different anti-cholinergic hallucinogens.
- o. What are the effects of Amanita muscaria (Mushrooms)?
- p. Which anti-cholinergic hallucinogen is not illegal?
- q. Describe the effects of ecstasy.
- r. Describe the pharmacology of ecstasy.
- s. What are the acute behavioral and physiological effects of ecstasy?
- t. What happens the next day after ecstasy use?

Quiz 10

After completion of the assignments for lesson 10 you should take quiz 10 on WebCT. The quiz consists of 5 multiple choice questions. You will have 10 minutes to complete the quiz. You are not allowed to use your textbook or notes for the quiz.

Module 3-Lesson 11 - Marijuana

Objectives:

1. Understand the relationship between marijuana, THC, and cannabis.
2. Discuss the different preparations of cannabis and their potency.
3. Discuss the legal status of marijuana throughout history and today.
4. Identify the physiological and behavioral effects of marijuana.
5. Identify the medical uses of marijuana.
6. Identify the changes in the brain that occur after chronic use of marijuana.

Assignments:

1. Read chapter 15 in the textbook and go over the online notes for chapter 15.
2. Complete the following review questions:
 - a. What is the psychoactive agent in marijuana?
 - b. List the preparations of marijuana in order of potency.
 - c. What did the marijuana tax act do?
 - d. List some arguments for the legalization of marijuana for medical uses and for the legalization of marijuana in general.
 - e. Describe the acute behavioral and acute physiological effects of marijuana.
 - f. Describe the pharmacology of marijuana.
 - g. In chronic users of marijuana tolerance develops to the _____ associated with marijuana.
 - h. What effect does long term use of marijuana have on the brain?
 - i. What are some behavioral or physiological effects of long term marijuana use?
3. Opinion paper 3: When discussing marijuana, a common issue that comes up is whether or not marijuana should be legalized for medical purposes and whether or not it should be

legalized all together. Based on what you have learned in chapter 15 and throughout this course do you think that marijuana should be legal for medical purposes and/or legal all together? You should write a 1-2 page paper that expresses your opinion on this subject. As before, you should submit the paper to me via WebCT. You should support your opinion with at least two credible references. The paper should be formatted according to the “Opinion Paper Formatting” instructions on WebCT. The instructions also identify what “credible” references are.

Quiz 11

After completion of the assignments for lesson 11 you should take quiz 11 on WebCT. The quiz consists of 5 multiple choice questions. You will have 10 minutes to complete the quiz. You are not allowed to use your textbook or notes for the quiz.

Examination III

This exam covers lessons 9-11 (chapters 13-15 in your textbook). You will have 1 hour and 15 minutes to complete the exam. The exam will include multiple choice questions and several short answer questions.

Research Review Paper Due

Before continuing on to Module 4 you must submit your research review paper via WebCT. The specific instructions for the paper are given at the beginning of the course syllabus and formatting instructions are available via WebCT.

Module 4-Lesson 12 - Performance Enhancing Drugs

Objectives:

1. Understand why drug use in athletic events is a problem.
2. Discuss the use of stimulant drugs, steroids, and other hormones as performance enhancing drugs.
3. Identify the difference between the androgenic and anabolic effects of steroids.
4. Discuss the policies for drug testing in different athletic competitions.

Assignments:

1. Read chapter 16 in the textbook and go over the online notes for chapter 16.
2. Read the article “The Doping Dilemma.”
3. Complete the following review questions:
 - a. Why is there concern about use of performance enhancing drugs?
 - b. What drugs are commonly used to enhance performance in athletics? How do each of these drugs increase performance?
 - c. What are the androgenic effects of steroids?
 - d. What are the anabolic effects of steroids?
 - e. What happened in the BALCO scandal? Why is this scandal important?
 - f. What is blood doping? Why is it advantageous?

Quiz 12

After completion of the assignments for lesson 12 you should take quiz 12 on WebCT. The quiz consists of 5 multiple choice questions. You will have 10 minutes to complete the quiz. You are not allowed to use your textbook or notes for the quiz.

Module 4-Lesson 13 - Over-the Counter Drugs

Objectives:

1. Understand the distinction between dietary supplements and drugs.
2. Discuss the 1994 Dietary Supplement Health and Education Act and how it impacted the sale of dietary supplements.
3. Understand what is meant by GRAE, GRAS, and GRAHL.
4. Be able to accurately read the label on an over-the-counter drug and on a dietary supplement.
5. Identify and understand common over the counter drugs.
6. Understand the difference between an anesthetic and an analgesic.
7. Understand the difference between aspirin, acetaminophen, and ibuprofen.

Assignments:

1. Read chapter 12 in the textbook and go over the online notes for chapter 12.
2. Complete the following review questions:
 - a. According to the Food and Drug cosmetic act, what is the difference between food and drugs?
 - b. What did the Dietary Supplement Health and Education Act (DSHEA) of 1994 do?
 - c. What statements must be on supplement labels?
 - d. What must be on the labels of the over the counter drugs?
 - e. What did the Kefauver-Harris Amendment do?
 - f. What is the active ingredient in over the counter stimulants?
 - g. What are the primary uses of aspirin?
 - h. How do aspirin, ibuprofen, and acetaminophen reduce pain?
 - i. What are the adverse effects of aspirin? Acetaminophen? Ibuprofen?
 - j. How much aspirin would it take to overdose?
 - k. How does aspirin reduce fever?
 - l. What is ibuprofen?
 - m. How are most colds transmitted?
 - n. What is the difference between an anesthetic and an analgesic?
 - o. What products are not allowed to be sold over the counter for weight loss? Why?

Quiz 13

After completion of the assignments for lesson 13 you should take quiz 13 on WebCT. The quiz consists of 5 multiple choice questions. You will have 10 minutes to complete the quiz. You are not allowed to use your textbook or notes for the quiz.

Module 4-Lesson 14 - Drug Treatment and Prevention

Objectives:

1. Distinguish between the different types of drug prevention programs.
2. Identify prevention programs that are successful.
3. Identify the different drug treatment programs that are available.
4. Describe the different stages in motivational enhancement therapy.
5. Explain how drugs can be used to treat drug addiction.

Assignments:

1. Read chapters 17 and 18 in the textbook and go over the online notes for chapter 17 and 18.
2. Complete the following review questions:
 - a. What are the primary goals of most prevention programs?
 - b. Define each of the following types of prevention programs:
 - i. Primary
 - ii. Secondary
 - iii. Tertiary
 - iv. Universal
 - v. Selective
 - vi. Indicated
 - c. Describe the following styles of prevention programs:
 - i. Traditional Program
 - ii. Affective Education
 - iii. DARE
 - iv. The Social Influence Model
 - v. Peer Influence
 - vi. Parent Programs
 - vii. ALERT
 - viii. Life Skills Training
 - ix. Community and Work Programs
 - d. What does research show about the effectiveness of each of the prevention programs discussed?
 - e. Identify and describe the major behavioral therapies that are used to treat drug addiction.
 - f. What pharmacotherapies can be used to treat alcoholism, use of nicotine, use of opioids, use of cocaine, and use of marijuana?
 - g. Is treatment effective?
3. Opinion paper 4: Given what you have learned throughout this lesson and this course, what do you think is the best way to prevent drug use? You may advocate a prevention model described in chapter 17 or you may develop your own model based on decreasing drug supply, decreasing drug demand, changing laws on drug use, etc. Your paper should be 1-2 pages long and your model should be supported by using two credible references. As before, you should submit the paper to me via WebCT. You should support your

opinion with at least two credible references. The paper should be formatted according to the “Opinion Paper Formatting” instructions on WebCT. The instructions also identify what “credible” references are.

Quiz 14

After completion of the assignments for lesson 14 you should take quiz 14 on WebCT. The quiz consists of 5 multiple choice questions. You will have 10 minutes to complete the quiz. You are not allowed to use your textbook or notes for the quiz.

Examination IV

This exam covers lessons 12-14 (chapters 12, 16-18 in your textbook). You will have 1 hour and 15 minutes to complete the exam. The exam will include multiple choice questions and several short answer questions.

Final Exam

The final exam is a comprehensive exam. You will have 2 hours to complete the exam. It will consist of multiple choice and short answer questions. Before taking the exam, you should go back and review all of your notes and review questions.