

COURSE OUTLINE

Alcohol/Drug Studies 105 Pharmacology: Alcohol and Other Drugs

I. Catalog Statement

Alcohol/Drug Studies 105 emphasizes the specific action and effects of psychoactive drugs, including beverage alcohol, on the human brain and body. The history of drugs as substances of abuse is presented along with the pharmacological and physiological implications of tolerance and habituation. The part played by pharmacological therapy as a component of current abuse and addiction treatment models is examined. Several prevention models are also presented.

Total Lecture Units: 3.0

Total Laboratory Units: 0.0

Total Course Units: 3.0

Total Lecture Hours: 48.0

Total Laboratory Hours: 0.0

Total Laboratory Hours To Be Arranged: 0.0

Total Faculty Contact Hours: 48.0

Prerequisite: ADST 101 and ADST 103 (ADST 101 and ADST 103 may be taken concurrently)

II. Course Entry Expectations

Prior to enrolling in the course, the student should be able to:

- discuss alcohol use and abuse within various cultures and societies from a historical perspective;
- describe the acute and chronic effects of alcohol and other drugs of abuse on the human body;
- discuss the effects of alcohol use, abuse, and dependency on adolescents, the elderly, women, and various ethnic and racial groups;
- diagram and explain the bio-psycho-social perspective of the progression of alcohol and other drug dependencies;
- explain the intervention process and various techniques used to move the chemically dependent person into treatment and through recovery.

III. Course Exit Standards

Upon successful completion of the required coursework, the student will be able to:

- demonstrate a comprehensive knowledge of the effects of alcohol and other psychogenic drugs on the brain and central nervous system;
- identify specific actions of psychogenic drugs on brain chemistry;
- distinguish between effects of alcohol and other psychogenic drugs on the cellular structure, organs, and systems of the body;
- identify the synergistic effects of alcohol combined with other psychogenic drugs;
- recognize the symptoms and behaviors typical of chemical abuse;
- explain the development of tolerance, the withdrawal syndrome, detoxification, and the use of drugs in the treatment of substance abuse;
- distinguish between age differentiated prevention techniques;
- compare the effectiveness of treatment versus legal interventions in substance abuse.

IV. Course Content

Total Faculty Contact Hours = 48.0

- A. An Overview of Drug Use (**6 hours**)
 1. Definitions and terminology
 2. Cultural changes and the pharmacologic revolution
 3. Contemporary drug use
 4. Drug addiction
- B. Drug Regulations (**3 hours**)
 1. Reformism and legislation
 2. Regulation of pharmaceuticals
 3. Narcotics, dangerous drugs, and controlled substances
 4. State and local regulations
- C. The Nervous System (**9 hours**)
 1. Chemical messengers
 2. Drugs and the brain
 3. Chemical theories of behavior
- D. Chemical Commodities and Drug Action (**3 hours**)
 1. Legal and illegal drugs
 2. Drug identification and detection
 3. Specific/nonspecific drug effects
 4. Drug activation/deactivation
 5. Mechanisms of tolerance and physical dependency
- E. Psychoactive Drugs (**18 hours**)
 1. Stimulants
 2. Depressants
 3. Over-the-counter drugs
 4. Psychotherapeutic drugs
 5. Narcotics
 6. Hallucinogens
 7. Marijuana and hashish
 8. Nicotine

- F. Drug Education and Prevention (**3 hours**)
 - 1. Stages of prevention
 - 2. Prevention programs
- G. Substance Abuse Treatment (**3 hours**)
 - 1. Treatment of alcoholism
 - 2. Treatment of narcotic addiction/cocaine dependence
 - 3. Alternative treatment approaches
- H. Drugs and Athletics (**3 hours**)
 - 1. Stimulants
 - 2. Steroids and other hormonal manipulations

V. Methods of Instruction

The following methods of instruction may be used in the course:

- lecture;
- classroom discussion;
- audiovisual materials.

VI. Out of Class Assignments

The following out of class assignments may be used in the course:

- essay (e.g. history of drug regulations and impacts on treatment and recovery);
- term paper (e.g. development of drug education and prevention in the United States).

VII. Methods of Evaluation

The following methods of evaluation may be used in the course:

- class participation;
- quizzes;
- midterm(s);
- final examination.

VIII. Textbook(s)

Inaba, Darryl, et al. *Downers, All Arounders: Physical and Mental Effects of Psychoactive Drugs*. 8th ed. Medford: CNS, 2014. Print.
16th Grade Textbook Reading Level. ISBN: 9780926544390 . Print.

IX. Student Learning Outcomes

Upon successful completion of the required coursework, the student will be able to:

- describe the specific action and effects of psycho-active drugs on the human brain and body;
- surmise the history of alcohol and drugs and compare and contrast how it plays a role in today's society;
- distinguish between different types of prevention and treatment modalities as to how effective they may be for a particular client(s);
- relate how addictive behaviors are similar to alcohol and drug addiction.