

**AODS 92 Course Outline as of Spring 2010****CATALOG INFORMATION**

Dept and Nbr: AODS 92      Title: PHARM/PHYSIO EFF ALC/DRG  
 Full Title: Pharmacological & Physiological Effects of Alcohol & Drugs  
 Last Reviewed: 4/13/2020

| Units   |      | Course Hours per Week |      | Nbr of Weeks | Course Hours Total |       |
|---------|------|-----------------------|------|--------------|--------------------|-------|
| Maximum | 3.00 | Lecture Scheduled     | 3.00 | 17.5         | Lecture Scheduled  | 52.50 |
| Minimum | 3.00 | Lab Scheduled         | 0    | 17.5         | Lab Scheduled      | 0     |
|         |      | Contact DHR           | 0    |              | Contact DHR        | 0     |
|         |      | Contact Total         | 3.00 |              | Contact Total      | 52.50 |
|         |      | Non-contact DHR       | 0    |              | Non-contact DHR    | 0     |

Total Out of Class Hours: 105.00

Total Student Learning Hours: 157.50

Title 5 Category: AA Degree Applicable

Grading: Grade Only

Repeatability: 00 - Two Repeats if Grade was D, F, NC, or NP

Also Listed As:

Formerly: HLE 97

**Catalog Description:**

This course reviews the medical and pharmacological aspects of alcohol and psychoactive substances. Students will also review theories and research pertaining to chemical dependency, pharmacological actions of drugs, drug classifications, medical and physical effects of alcohol and other drugs. The potential for abuse and dependency, and how psychoactive substances affect the mind and body will also be reviewed.

**Prerequisites/Corequisites:****Recommended Preparation:****Limits on Enrollment:****Schedule of Classes Information:**

Description: This course reviews the medical and pharmacological aspects of alcohol and psychoactive substances. Students will also review theories and research pertaining to chemical dependency, pharmacological actions of drugs, drug classifications, medical and physical effects of alcohol and other drugs. The potential for abuse and dependency, and how psychoactive

substances affect the mind and body will also be reviewed. (Grade Only)

Prerequisites/Corequisites:

Recommended:

Limits on Enrollment:

Transfer Credit: CSU;

Repeatability: Two Repeats if Grade was D, F, NC, or NP

## **ARTICULATION, MAJOR, and CERTIFICATION INFORMATION:**

|                      |                      |                        |           |
|----------------------|----------------------|------------------------|-----------|
| <b>AS Degree:</b>    | <b>Area</b>          | Effective:             | Inactive: |
| <b>CSU GE:</b>       | <b>Transfer Area</b> | Effective:             | Inactive: |
| <b>IGETC:</b>        | <b>Transfer Area</b> | Effective:             | Inactive: |
| <b>CSU Transfer:</b> | Transferable         | Effective: Spring 1999 | Inactive: |
| <b>UC Transfer:</b>  |                      | Effective:             | Inactive: |

**CID:**

**Certificate/Major Applicable:**

Both Certificate and Major Applicable

## **COURSE CONTENT**

### **Outcomes and Objectives:**

Upon completion of this course, the student will be able to:

1. Identify the progressive stages of the disease of chemical dependency.
2. Describe and list the most commonly abused drugs and their effects on the body.
3. Recognize and analyze the basic metabolic and neurological processes involved in drug use.
4. Describe the social effects of psychoactive substances on the user.
5. Describe the special service needs and staff precautions necessary when working with clients who may be HIV, hepatitis, STI or tuberculosis positive.
6. Analyze in writing the risk and intervention issues associated with prenatal drug use.

### **Topics and Scope:**

- I. Effects of psychoactive substance on the user
  - A. Basic principles of pharmacology on the brain, body, and behavior
  - B. Main body systems that are affected by abuse of prescription medications, alcohol and illegal drugs
    1. Circulatory
    2. Endocrine
    3. Immune systems
    4. Liver
    5. Pancreas
    6. Central and peripheral nervous systems
- II. Review the basic metabolic and neurological processes
  - A. Comprehensive outline of the most widely abused prescription drugs, alcohol and illegal drugs

- B. Differentiate between the different classes of drugs and their actions/reactions on clients
- III. Review physical and psychological dependency, tolerance, and withdrawal
  - A. Basic principles of drug actions and interactions
  - B. Abusive use of prescription medications, alcohol and/or illegal drugs
- IV. Issues associated with prenatal drug use
  - A. The effects of drugs on the body systems during pregnancy
  - B. Smoking during pregnancy
  - C. Premature born and low birth weight
  - D. Child abuse and neglect cases in the courts
- V. Special services and staff needed when working with high risk clients who may be HIV, hepatitis, STI or tuberculosis positive
  - A. Basic understanding of the Diagnostic and Statistical Manual of Mental Disorders(DSM-IVTR), American Psychiatric Association
  - B. Policies and processes of reporting and documenting
  - C. Communication both verbal and non-verbal when performing assessments and communicating with clients
  - D. Drug testing
    - 1. Examples of test
    - 2. Advantages and disadvantages of testing
    - 3. The impact of false positive and false negative on the client
- VI. Medical and pharmacological resources available in treatment
  - A. Various medications and nutritional aids to assist the body in recovery
  - B. Current literature regarding medical and pharmacological
  - C. The role medical problems and complications play in the intervention and treatment of addiction

### **Assignment:**

#### **READING ASSIGNMENTS:**

Students will be required to read at least 40 pages per week and other selected reading from journals assigned by the instructor.

#### **WRITING ASSIGNMENTS:**

1. One to two 5-page critiques on any treatment modality. Give the pros and cons of each method with appropriate documentation.
2. One to two 3-page analyses of how a given drug will affect the fetus of a pregnant mother.
3. Written evaluation of a treatment program in Sonoma County, 3-5 pages.

#### **EXAMS:**

Students will be given a midterm and final exam, and at least two additional short exams on material covered in class.

Mid-term and final will include essay questions.

### **Methods of Evaluation/Basis of Grade:**

**Writing:** Assessment tools that demonstrate writing skills and/or require students to select, organize and explain ideas in writing.

|   |                                |
|---|--------------------------------|
| Analysis/critiques, treatment program   | Writing<br>25 - 35%            |
| <b>Problem Solving:</b> Assessment tools, other than exams, that demonstrate competence in computational or non-computational problem solving skills. |                                |
| None  | Problem solving<br>0 - 0%      |
| <b>Skill Demonstrations:</b> All skill-based and physical demonstrations used for assessment purposes including skill performance exams.              |                                |
| None  | Skill Demonstrations<br>0 - 0% |
| <b>Exams:</b> All forms of formal testing, other than skill performance exams.  |                                |
| Multiple choice, essay exams  | Exams<br>65 - 75%              |
| <b>Other:</b> Includes any assessment tools that do not logically fit into the above categories.  |                                |
| None  | Other Category<br>0 - 0%       |

### **Representative Textbooks and Materials:**

Uppers, Downers, All Arounders: Physical and Mental Effects of Psychoactive Drugs. Inaba, Darryl, Cohen, William E. and Holstein, Michael E. CNS Publications: 2004

Concepts of Chemical Dependency. Doweiko, Harold E. Brooks/Cole: 2006

Handouts: Free materials of the National Institutes of Alcohol and Drug Abuse.

Basic Pharmacology for Counselors and Psychotherapists. Sinacola, R.S. and Peters-Strickland, S. Allyn and Bacon: 2006

Understanding Pharmacology, A Physiological Approach. Grajeda-Higley, Leilani. Prentice Hall: 2006