

**SWHS 82 Course Outline as of Fall 2023****CATALOG INFORMATION**

Dept and Nbr: SWHS 82 Title: PHARM/PHYSIO EFF ADDICT

Full Title: Pharmacological &amp; Physiological Effects of Addiction

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	6	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: HUSV 82

**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
<b>UC Transfer:</b>		Effective:	Inactive:

**CID:**

**Certificate/Major Applicable:**

Both Certificate and Major Applicable

## **COURSE CONTENT**

### **Student Learning Outcomes:**

At the conclusion of this course, the student should be able to:

1. Describe the medical and pharmacological resources available in the treatment of substance use disorders.
2. Recognize and describe the differences and similarities between physical and psychological dependency, tolerance and withdrawal.
3. Recognize and screen clients for psychoactive substance toxicity, intoxication, and withdrawal symptoms.

### **Objectives:**

At the conclusion of this course, the student should 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 Human Immunodeficiency Virus ((HIV), hepatitis, Sexually Transmitted Infection (STI) or tuberculosis positive.
6. Analyze in writing the risk and intervention issues associated with prenatal drug use.
7. Ability to identify medical and pharmacological resources.

### **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
- C. Social effects of psychoactive substance abuse
- II. Review 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 research
  - C. The role that medical problems and complications play in the intervention and treatment of addiction

### **Assignment:**

- 1. Reading assignments (minimum of 40 pages per week).
- 2. Writing assignments:
  - a. 1-2 critiques on treatment modalities
  - b. 1-2 analysis of substance abuse effects
  - c. Written evaluation of Bay Area treatment program
- 3. Exams: Quiz(zes) (1-3), midterm, and final

### **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, and written evaluation

Writing  
25 - 35%

**Problem Solving:** Assessment tools, other than exams, that demonstrate competence in computational or non-computational problem solving skills.

None

Problem solving  
0 - 0%

**Skill Demonstrations:** All skill-based and physical demonstrations used for assessment purposes including skill performance exams.

None

Skill Demonstrations  
0 - 0%

**Exams:** All forms of formal testing, other than skill performance exams.

Quiz(zes), midterm, and final

Exams  
55 - 65%

**Other:** Includes any assessment tools that do not logically fit into the above categories.

Attendance and participation

Other Category  
5 - 10%

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

Uppers, Downers, All Arounders: Physical and Mental Effects of Psychoactive Drugs. 8th ed. Inaba, Darryl and Cohen, William E. CNS Publications. 2014 (classic)

Concepts of Chemical Dependency. Doweiko, Harold E. Brooks/Cole. 2019

Loosening the Grip; A Handbook of Alcohol Treatment. 11th ed. Kinney, Jean. 2019

Understanding Pharmacology; A Physiological Approach. Grajeda-Higley, Leilani. Prentice Hall. 1999 (classic)

Instructor prepared materials.