

**ALHS 4324**  
**DRUGS AND HEALTH**

**Spring 2009**

**JOE SARTOR, PharmD.**

**COURSE TITLE:** Drugs and Health

**COURSE NUMBER:** ALHS 4324

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**COURSE DESCRIPTION:** The course focuses on the study of legal and illegal use, misuse and abuse of chemical substances that alter structure or function in living organisms.

**COURSE CREDIT:** Three (3) semester hours

**STUDENT LEARNING OUTCOMES:** Upon successful completion of ALHS 4324, the student will be able to:

1. Discuss the influence of government regulation on the development of drugs, including the scheduling of controlled substances.
2. Apply the pharmacological properties and general pharmacokinetic parameters of drugs commonly encountered in health science careers.
3. Evaluate the affects of drugs used for specific health problems and the effects on activities of daily living.
4. Understand substance abuse and addition, including the social and physical hazards of select substances.
5. Discuss age and gender specifics of drug use and response, including geriatric, pediatric and pregnancy.
6. Examine and evaluate the use of psychological and physiological enhancing drugs.
7. Influence the positive use of medications and the avoidance of the harmful effects of legal and illegal substances.

**TEACHING  
STRATEGIES:**

Class Lecture and Notes

**EVALUATION:**

Three (3) Exams = 75%  
Comprehensive Final Exam = 25%

**GRADING  
SCALE:**

90 - 100 = A  
80 - 89 = B  
70 - 79 = C  
60 - 69 = D  
Below 60 = F

**COURSE OUTLINE AND SCHEDULE**

<b>Date</b>	<b>Lecture Topic</b>
January 14	Human Physiology Related to the Body's Response to Drugs <ul style="list-style-type: none"> <li>▪ Pharmacokinetics: definitions and concepts</li> <li>▪ Pharmacodynamics</li> <li>▪ Hemodynamics</li> <li>▪ Autonomic and Somatic Nervous system</li> </ul>
January 21	Treatment of Inflammation and Pain <ul style="list-style-type: none"> <li>▪ Antihistamines</li> <li>▪ Glucocorticoids</li> <li>▪ Nonsteroidal Anti-inflammatory Drugs (NSAID's)</li> </ul>
January 28	<ul style="list-style-type: none"> <li>▪ Drugs for Allergic Rhinitis</li> <li>▪ Community-Acquired MRSA</li> </ul>
February 4	<b>EXAM #1</b>
February 11	Central Nervous System Drugs <ul style="list-style-type: none"> <li>• Antidepressants</li> <li>▪ Anxiolytics</li> <li>▪ Sleep Aids</li> </ul>
February 18	Central Nervous System Drugs <ul style="list-style-type: none"> <li>▪ Antipsychotics</li> <li>▪ Opiates and Opioids</li> <li>▪ Stimulants</li> </ul>
February 25	Men's Health <ul style="list-style-type: none"> <li>• Androgens</li> </ul> Women's Health <ul style="list-style-type: none"> <li>▪ Estrogens and Progestrogens</li> </ul> Birth Control Sexually Transmitted Diseases
March 4	<b>EXAM #2</b>
March 25	Drugs for Obesity Drug Abuse <ul style="list-style-type: none"> <li>▪ Basics and Definitions</li> <li>▪ Major Drugs of Abuse other than Alcohol and Tobacco</li> </ul>
April 1	Alcohol and Tobacco Abuse; Effects on Health for a Life Time
April 8	Drug Therapy Across the Life Span <ul style="list-style-type: none"> <li>▪ Pregnancy and Breast Feeding</li> <li>▪ Pediatrics</li> <li>▪ Geriatrics</li> </ul>
April 15	<b>EXAM #3</b>
April 22	Common Endocrine and Cardiovascular Medications <ul style="list-style-type: none"> <li>• Diabetes</li> <li>▪ Asthma and COPD</li> <li>▪ Hypertension</li> <li>▪ Heart Disease</li> </ul>
April 29	Vitamins and Herbals
May 6	<b>FINAL EXAM</b>