COURSE TITLE: Drugs and Health

COURSE NUMBER: ALHS 4324

INSTRUCTOR: Kurt Lorenz, Pharm.D.
Voicemail: 903-266-3407
Telephone: 903-566-9553
klorenz@uttyler.edu
Office hours: After class by appointment

COURSE DESCRIPTION: The course focuses on the study of legal and illegal use, misuse and abuse of chemical substances that affect 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 effects of drugs used for specific health problems and the effects on activities of daily living.

4. Understand substance abuse and addiction, 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: Lecture with discussions and Slide Notes

EVALUATION: Four Exams – 22% each
Weekly quiz – 12%
All quizzes and exams will be online in Blackboard

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

ABSENCES/MAKE-UP: Any missed quizzes or exams can only be made up upon discussion with course instructor

Course withdrawal Date: September 4, 2015

University Syllabus Policies: www.utttyler.edu/academicaffairs/syllabuspolicies.pdf

REFERENCE TEXTBOOK: This text is not required but can be purchased on the internet (~$85) if additional resources are needed. Earlier editions may be less expensive and still offer good basic information. Be aware if purchasing older editions that guidelines are old. We are seeing a renaissance of guidelines and updates.

# ALHS 4324 Drugs and Health

## COURSE OUTLINE AND SCHEDULE

<table>
<thead>
<tr>
<th>Date Range</th>
<th>Lecture Topic</th>
</tr>
</thead>
</table>
| August 27 - September 17  | FDA, DEA, and Regulations  
Human Physiology Related to the Body’s Response to Drugs  
- Pharmacokinetics: definitions and concepts  
- Pharmacodynamics  
- Drug therapy across the ages: Pregnancy to Geriatrics  
- Autonomic and Somatic Nervous system  
- Cholinergic and Adrenergic Agents  
- Hemodynamics  
- Heart Failure  
- Heart Disease  
- Hypertension  
- Arrhythmias |
| Thursday, Sept 24         | Exam #1                                                                      |
| September 24 - October 15 | Central Nervous System Drugs  
- Antidepressants  
- Anxiolytics  
- Sleep Aids  
- Antiepileptics  
- Central Nervous System Drugs  
- Antipsychotics  
- Dementia related medications  
- Opiates and Opioids  
- Stimulants  |
|                           | Men’s Health: Androgens  
Women’s Health: Estrogens and Progestrogens  
Birth Control |
| Thursday, October 22      | EXAM #2                                                                      |
| October 22 - November 5   | Anti-inflammatory and Anti-allergy Medications  
- Antihistamines  
- Drugs for Allergic Rhinitis  
- Glucocorticoids  
- Nonsteroidal Anti-inflammatory Drugs (NSAID’s)  
- Acetaminophen  
- Diabetes  
- Asthma and COPD  |
|                           | Anti-infectives  
- Antibiotics  
- Antivirals  
- Antifungals |
| Thursday, Nov 12          | EXAM #3                                                                      |
| November 12 - December 3  | Drugs for Obesity  
Drug Abuse: Basics and Definitions  
Major Drugs of Abuse other than Alcohol and Tobacco  
Alcohol and Tobacco Abuse; Effects on Health for a Life Time  
Cancer Chemotherapy - Overview  
Vitamins and Herbals |
| Thursday, Dec. 10         | FINAL EXAM                                                                   |