UNIVERSITY OF THE INCARNATE WORD
ILA FAYE MILLER SCHOOL OF NURSING AND HEALTH PROFESSIONS

ATHP 2341
Pharmacological Concepts and Practice
Syllabus

Catalog Description
This course covers the general principles and practice of pharmacology concepts as it relates to athletic training and rehabilitative settings. Emphasis is placed on pharmacological intervention, patient education, pharmacodynamics, and pharmacokinetics of drugs commonly prescribed to patients with active lifestyles.

Context
Pre-requisite(s) for this course include successful completion with a “C” or better in BIOL 2321/2121 Anatomy and Physiology I with Lab and BIOL 2322/2122 Anatomy and Physiology II with Lab. This course is appropriate for athletic training and rehabilitative science majors that have been admitted to the major and are in good standing with the program. This course is intended for upper level students that have met academic requirements. The course may not be repeated for credit.

Course Overview
The purpose of this course is to provide students with the knowledge, skills, and abilities to determine appropriate pharmacological therapeutic interventions based on patient interview, clinical signs and symptoms, as well as clinical assessment. This three credit hour course uses lecture, case study presentation, and current innovative technology along with course readings to prepare the student to master course content. Students will be assessed through written examination(s) and problem based learning case studies. Successful completion of the course provides the student with fundamental knowledge, skills, and abilities needed to advance in their major.

Course Outcomes

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<th>Course outcomes:</th>
<th>Assessment:</th>
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<td>Upon completion of the course, students will be able to</td>
<td>The objectives will be assessed</td>
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<td>1. Describe medication types and their physiological effects on the human body.</td>
<td>By written examination(s) and case study participation</td>
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<td>2. Demonstrate ability to use the drug references to search for information.</td>
<td>By written examination(s) and case study participation</td>
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<td>3. Identify documentation and common medical pharmacological abbreviations.</td>
<td>By written examination(s) and case study participation</td>
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<td>4. Understand and describe various conditions and diseases of the systems of the body and identify appropriate pharmacological and non-traditional interventions.</td>
<td>By written examination(s) and case study participation</td>
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5. Understand of external and internal causes of disease, injury and death as related to drug misuse and abuse.  
By written examination(s) and case study participation

6. Explain legal parameters of pharmacological interventions as per scope of practice.  
By written examination(s) and case study participation

7. Understand natural and herbal supplementation and performance enhancement medications and their impact on exercise and training.  
By written examination(s) and case study participation

8. Understand how personal health habits, nutrition and other habits have an effect on the body’s diseased state and use as non-drug therapeutic interventions.  
By written examination(s) and case study participation

9. Identify and interpret findings from the patient interview and clinical presentation to create a differential and clinical diagnosis as impacted by pharmacological intervention.  
By written examination(s) and case study participation

10. Identify and interpret findings from the patient interview and clinical presentation to determine need for referral to a physician for medication adjustment and/or allergic reaction.  
By written examination(s) and case study participation

11. Analyze findings from the patient interview and clinical presentation to determine appropriate plan for therapeutic interventions and effects of various pharmacological intervention and exercise.  
By written examination(s) and case study participation

**Disability Statement**
The University is committed to providing a supportive, challenging, diverse, and integrated environment for all students. In accordance with Section 504 of the Rehabilitation Act—Subpart E and Title III of the Americans with Disabilities Act (ADA), the University ensures accessibility to its programs, services and activities for qualified students with documented disabilities. For more information contact the Student Disability Services Office: Director, Moises Torrescano; Academic Counselor, Cynthia Pino (Administration Building Room 105; Phone: 210-829-3997; Fax: 210-829-6078).

**Policy on Academic Integrity**
The highest standards of academic honesty are expected in the course. Forms of academic dishonesty include, but are not limited to cheating, plagiarism, counterfeit work, falsification of academic record, unauthorized reuse of work, theft, and collusion. See the Student Handbook for definitions and procedures for investigation of claims of academic dishonesty.

11/2012
Approvals
Program Approval Date: 11/2012
School/College Approval Date: 01/2013
UGCC and Senate Approval Date: 02/2013