

Course Outcomes Guide (COG)

Course Title: PHR-110 Pharmacology and Therapeutics **Date:** Fall, 2017

Course Team: Jennifer Suminski, CPhT, RDH, MS

Expected Learning Outcomes

1. Demonstrate an understanding of terminology associated with the fundamentals of pharmacology;
2. Identify the basic interactions of chemicals on living organisms relating to major body systems; additionally, bacterial infections, fungal infections, and viral infections and associated therapeutic agents;
3. Understand the pharmacologic and pharmacokinetic indications of prescription drugs, as well as over-the-counter drugs on the human body, and their use in disease states and conditions;
4. Explain key factors associated with pharmacokinetic such as first pass effect and the importance of the blood-brain barrier, routes of drug elimination, elimination half-life, and the importance of bioavailability to generic drug substitutions;
5. Explain the drug-receptor theory as well as compare and contrast agonists, antagonists, and partial agonist;
6. Explain drug-drug interactions, drug to food interactions, drug to disease contraindications and medication errors;
7. Demonstrate knowledge of basic concepts of pharmacokinetics including the 6 stages of drug kinetics;
8. Understand the use and side effects of prescription and non-prescription medications used to treat common disease states;
9. Identify the routes of administration (oral, parenteral, topical, transdermal and transmucosal, nasal and inhalation, sublingual, and buccal, rectal, vaginal, optic, ocular, etc.);
10. Explain the importance and wellness promotion and disease prevention practices, such as use of health screenings, health practices and environmental factors that impact health; and adverse effects of alcohol, tobacco, illegal and legal drugs;
11. Identify the various factors that might affect drug activity, such as age, body weight, gender, race, pregnancy, time of administration, rate of metabolism, hypersensitivity, disease states and preexisting conditions, and drug interactions;
12. Demonstrate an understanding of basic principles of patient assessment;
13. Demonstrate an understanding of drug therapy in special patient populations; and
14. Demonstrate proficiency in identifying the Brand and Generic names of the top 200 drugs along with the indications and prime side effects and precautions associated with these drugs.

Assessment: Assessments include homework assignments (20% of overall grade), one pharmacy project (30% of overall grade), quizzes, four lecture examinations (20% of overall grade) and one cumulative final examination (30% of overall grade). Students are required to achieve an overall grade of 75% or better.

Validation: This is didactic course, in which the majority of the grade is determined by the completion of course assessments with a goal of 100% of students achieving an average of 75% or higher. By completing this course, students will achieve the objectives as mandated by the accreditation standards for the American Society of Health Systems Pharmacist (ASHP).

Results: These results are based, on one student who was enrolled in the course during the fall, 2017 semester.

Assessments	Course Average
Quizzes & Tests	74.05%
Assignments	98.21%
Projects	100%
Cumulative Examination	79%
Overall Course Grade	87.04%

Follow-up: Adjustments will continually be made to link weekly theory concepts with the practical aspects of pharmacy settings and the role of a pharmacy technician.

Budget Justification: No changes are needed at this point.