

Hagerstown Community College
OFFICAL COURSE SYLLABUS DOCUMENT

COURSE: PHR-111 Pharmacology and Therapeutics

3 Credits

INSTRUCTOR: Sandra Andrews. CPhT, BLS SEMESTER/YEAR: Spring 2016

MEETING TIMES: Tuesday & Thursday 9:00AM-10: 30AM

COURSE DESCRIPTION:

This course is an introduction to pharmacology, a review of disease states, actions, and medication classes. 45 hours of lecture. *Prerequisite: BIO 110 Semester offered fall, spring. Lecture Tuesday/Thursday 9:00AM-10: 30AM. Career Programs Building-Room 173

TEXTBOOK: Pharmacology for Pharmacy Technicians: 2nd Edition; Moscou/Snipe, Elsevier: ISBN: 9780323084970

STUDENT LEARNING OUTCOMES:

- Explain why the study of pharmacology is necessary for pharmacy technicians
- Learn the terminology associated with the fundamentals of pharmacology
- Define the term pharmacokinetic as well as understand 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
- Explain the drug-receptor theory as well as compare and contrast agonists, antagonists, and partial agonist.
- Discuss the importance of pharmacodynamics to drug action as well as discuss the factors influencing patient response to drug therapy and how this affects patient adherence to drug therapy.
- Discuss the importance and meaning of the following terms, drug-drug interactions, drug to food interactions, drug to disease contraindications and medication errors,

Total Hours of Coursework:

To earn one academic credit at HCC, students are required to complete a minimum of 37.5 clock hours (45 fifty-minute “academic” hours) of coursework per semester. Those hours of coursework may be completed through a combination of hours within the classroom and hours outside the classroom. Certain courses may require more than the 37.5 minimum hours of coursework per credit. For most classes, students should expect to do at least 2 hours of coursework outside of class for each hour of in-class coursework.

In class attendance	45 hours of class attendance (mandatory)
Reading assigned text chapters	3 hrs. /wk. x 15 weeks = 45 hours
Completing homework	16 homework assignment x 2 hr./assignment =32 hours
16 Quizzes – 50 questions each	16 Exams x 2 hours = 32 hours
Final Examination - cumulative	1 Exam x 10 hours of study = 10 hours
Pharmacology Project	Pharmacology Project = 5 hours
Total Time	169 hours for 3 credits