

SOUTHEAST COMMUNITY COLLEGE
HEALTH SCIENCES DIVISION
PHARMACY TECHNICIAN
Revision Date: 10/2022

I. CATALOG DESCRIPTION

Course Number: PHRM 1010/PHRM 1010L
Course Title Pharmacology Basics 1
Prerequisite(s): Admission into the Pharmacy Technician Program

Catalog Description: This course introduces students to the general principles of pharmacology and sufficient background information so they will be able to play a key role in avoiding dispensing errors. Drugs are explored in the context of classes, mechanism of action, disease types, and body systems. An emphasis is placed on the top 200 drugs most commonly prescribed drugs but many more drugs will be discussed.

Credit Hours: 3
Class Hours: 30
Lab Hours: 45
Total Contact Hours: 75

II. COURSE OBJECTIVES: *Course will:*

1. Examine principles of drug action in the body, including absorption, distribution, metabolism, and elimination.
2. Introduce basic concepts of pharmacology regulations, dosage, forms, routes, and factors that affect drug response.
3. Identify the top 200 drugs by their brand and generic names, classification, properties, actions, and effects on various systems of the body.
4. Demonstrate understanding of detailed information regarding drug dosages, side effects, interactions, toxicities, and incompatibilities.

III. STUDENT LEARNING OUTCOMES AND GENERAL EDUCATION LEARNING OUTCOMES:

A. STUDENT LEARNING OUTCOMES: *Student will be able to:*

1. Provide safe pharmacy services by:
 - a. Developing an understanding of drug classes and mechanisms of action for many drugs.
 - b. Identify Body Systems and why drugs are prescribed for particular diseases.
 - c. Recall common side effects related to drug classifications.
 - d. Identify potential drug interactions.

B. GENERAL EDUCATION LEARNING OUTCOMES

1. GELO 3: Critical Thinking & Problem Solving

The student will demonstrate the ability to collect, identify, interpret, and analyze data.

A. CONTENT/TOPICAL OUTLINE *(course outline may provide more detailed information)*

Introduction to Pharmacology

1. Basic Concepts of Pharmacology
2. Pharmacology Study for the Pharmacy Technician

B. Body Systems and Corresponding Drug Therapies

1. The Integumentary System and Drug Therapy
2. The Musculoskeletal System

3. The Nervous System, Central Nervous System Disorders and Drug Therapy
4. The Nervous System, Mental Health and Drug Therapy
5. The Sensory System and Drug Therapy
6. The Cardiovascular System and Drug Therapy
7. The Respiratory System and Drug Therapy

IV. INSTRUCTIONAL MATERIALS

A. Required Text(s):

Digital Access to McKenon, Skye A., *Pharmacology for Technicians*, (current ed.). EMC Paradigm, 2021.

B. Other Resources:

Workbook, 978-0-76386-784-3

V. METHODS OF PRESENTATION/INSTRUCTION

A. Methods of presentation typically include a combination of the following:

1. Lecture
2. Group discussion
3. Role-playing
4. Student prepared Case Studies
5. Guest speakers
6. Transparencies, handouts, videos, power points
7. Demonstrations
8. Online web resources
9. Homework and class participation

VI. METHODS OF EVALUATION

A. Methods of evaluation typically include a combination of the following:

1. Refer to the Southeast Community College catalog for the grading scale or see below.
2. Refer to the Course Information Document (CID) for specifics.

SCC STANDARD GRADING SCALE POLICY:

A+	95-100	C+	75-79
A	90-94	C	70-74
B+	85-89	D+	65-69
B	80-84	D	60-64
		F	Below 60

VII. SPECIFIC COURSE REQUIREMENTS:

- A. A grade of C or better is required to advance to the next semester.
- B. Refer to the Course Information Document (CID)