

Montgomery County Community College
HCP/NUR 220
General Pharmacology
3-3-0

COURSE DESCRIPTION:

Designed for the student who has a basic understanding of the human body and how it works. This course emphasizes the major drug classifications, related legal/ethical considerations, pharmacokinetics, pharmacodynamics, drug toxicity and therapeutic monitoring.

REQUISITES:

Previous Course Requirements

None

Concurrent Course Requirements

None

LEARNING OUTCOMES Upon successful completion of this course, the student will be able to:	LEARNING ACTIVITIES	EVALUATION METHODS
1. Discuss development of pharmacology and its relation to health care.	Lecture Discussion Written Homework Internet Based Activities	Final Exam Discussion Questions
2. Analyze impact of legal/ethical considerations on use of drugs.	Lecture Discussion Assigned Readings Case Studies Homework Internet Based Activities	Final Exam Project
3. Apply knowledge of biological, psychological and social factors to clinical situations.	Lecture Discussion Assigned Readings Case Studies Homework Internet Based Activities	Case Studies Final Exam
4. Analyze drug absorption and possible reactions.	Lecture Discussion Assigned Readings Case Studies Homework Internet Based Activities	Final Exam Case Studies Project

LEARNING OUTCOMES	LEARNING ACTIVITIES	EVALUATION METHODS
5. Discuss drug classifications including action, side effects, legal/ethical considerations, and monitoring.	Lecture Discussion Assigned Readings Case Studies Homework Internet Based Activities	Case Studies Project Final Exam

At the conclusion of each semester/session, assessment of the learning outcomes will be completed by course faculty using the listed evaluation method(s). Aggregated results will be submitted to the Associate Vice President of Academic Affairs. The benchmark for each learning outcome is that *70% of students will meet or exceed outcome criteria.*

SEQUENCE OF TOPICS:

- I. Introduction and Course Overview
- II. History of Pharmacology
- III. Common Legal/Ethical Considerations
 - A. Drug Regulations and Control
 - B. Drug Abuse
- IV. Factors Which Result In Altered Pharmacologic Action
 - A. Physical
 - B. Emotional
- V. Pharmacokinetics
- VI. Therapeutic Drug Monitoring and Toxicity
- VII. Pharmacodynamics
- VIII. Drug Classifications
 - A. Anti-Infectives
 - B. Anti-Neoplastics
 - C. Cardiovascular Drugs
 - D. CNS Depressants
 - E. CNS Stimulants
 - F. Psychotropic Drugs
 - G. Autonomic Nervous System Agents
 - H. Respiratory Agents
 - I. Hormones
 - J. Digestive Agents
 - K. Immunologic Agents

LEARNING MATERIALS:

Shannon, Margaret, Wilson, B. & Shields, K. (2017) *Health Professional's Drug Guide*. Upper Saddle River: Pearson, Prentice Hall. ISBN-10: 0134711025
ISBN-13: 978-0134711027

Other learning materials may be required and made available directly to the student and/or via the College's Libraries and/or course management system.

COURSE APPROVAL: Fall, 1987

Prepared by: Deborah Dalrymple Date: 3/17/1998

Approved by: Dr. Bradley Gottfried Date: 12/3/1998

Reviewed and Revised by: Deborah Dalrymple, MSN, RN Date: 9/13/2004

Reviewed and Revised by: Deborah Dalrymple, MSN, RN Date: 10/2008

VPAA/Provost Compliance Verification: Dr. John C. Flynn, Jr. Date: 9/11/2009

Revised by: Deborah Dalrymple, MSN, RN Date: 10/30/2012

VPAA/Provost or designee Compliance Verification:
Victoria L. Bastecki-Perez, Ed.D. Date: 6/4/2013

Revised by: Elizabeth Keene, MSN/Ed, RN, CNE Date: 12/19/2017

VPAA/Provost or designee Compliance Verification: Date: 12/21/2017



This course is consistent with Montgomery County Community College's mission. It was developed, approved and will be delivered in full compliance with the policies and procedures established by the College.