

**Department:**

Health Sciences

**Course Description:**

This course is designed for the Health Science student to study diseases and disorders that affect the various body systems and the principles of pharmacology, drug classifications, and the effects of selected medication on the human body. This course will focus on diseases of each body system including cause, diagnosis, and treatment. Emphasis is also placed on understanding the actions of the drugs, such as absorption, distribution, metabolism, and excretion of drugs by the body, and matching drugs to common conditions and laboratory findings. This course does not meet the current requirements for nursing.

**Course Competencies:**

Upon completion of the course, the student should be able to:

1. Describe drug classification.
2. List several forms in which drugs are manufactured and explain their advantages and disadvantages.
3. List several routes of drug administration and explain their advantages and disadvantages.
4. List the steps of the drug cycle and explain how drug use affects the body.
5. Compare and contrast local and systemic drug therapy.
6. Define therapeutic level, allergies, and side effects of drugs.
7. Identify the trade names of common generic drugs used to treat each body system.
8. When given a common generic or trade name drug, identify the category where it belongs.
9. Pronounce and spell common generic and trade name drugs.
10. Define common drug abbreviations, including units of measurement.
11. When given a common generic or trade name drug, match the drug to the common condition for treatment or laboratory findings.
12. Discuss common disease processes for each human body system.
13. Explain how the individual body systems function together.
14. List the types of infections.
15. List transmission for diseases and chain of infection.
16. Describe diseases, causes, diagnoses, and treatment for each body system.
17. Describe diseases, causes, diagnoses, and treatment for congenital and childhood diseases.
18. Describe diseases, causes, diagnoses, and treatment for immunological diseases.
19. Describe diseases, causes, diagnoses, and treatment for mental disorders.
20. Explain the role of alternative medicine.
21. Explain the role of Public Health in the United States.

**Course Content:**

- A. History of the Creation and Development of Medication
- B. Drug Classification
- C. Drug Categories
- D. Form in Which Drugs Are Manufactured

- E. Disadvantages and Advantages of Different Routes of Drug Administration
- F. Drug Cycle
- G. Trade Names of Drugs
- H. Generic Names of Drugs
- I. Effects of Drugs on the Body Through Absorption, Distribution, Metabolism, and Excretion
- J. Drug Allergies
- K. Drug Interactions
- L. Common Drugs Prescribed
- M. Common Conditions and the Drugs to Treat Them
- N. Introduction to Pathophysiology
- O. Congenital and Childhood Diseases and Conditions
- P. Immunological Diseases and Conditions
- Q. Diseases and Conditions of the Endocrine System
- R. Diseases and Conditions of the Eye and Ear
- S. Diseases and Conditions of the Integumentary System
- T. Diseases and Conditions of the Musculoskeletal System
- U. Diseases and Conditions of the Digestive System
- V. Diseases and Conditions of the Respiratory System
- W. Diseases and Conditions of the Circulatory System
- X. Diseases and Conditions of the Urinary System
- Y. Diseases and Conditions of the Reproductive System
- Z. Neurological Diseases and Conditions
- AA. Mental Disorders
- BB. The Role of Alternative Medicine
- CC. The Role of Public Health in the United States

## Learning Assessments:

Course competencies will be assessed by use of discussion questions, graded assignments, comprehensive assignments, research paper, quizzes, and exams.

## Instructional Materials:

Textbooks: Hubert, R. & VanMeter, K. (2018). *Gould's Pathophysiology for the Health Professions* (6th ed.). Philadelphia, PA: Saunders. ISBN-13: 978-0323414425

Hubert, R. & VanMeter, K. (2018). *Study Guide for Gould's Pathophysiology for the Health Professions* (6th ed.). Philadelphia, PA: Saunders. ISBN-13: 978-0323414142

Turley, S. (2014). *Understanding Pharmacology for Health Professionals* (5th ed.). Boston, MA: Pearson. ISBN-13: 978-0133911268

### **Guidelines for Requesting Accommodations Based on Documented Disability or Medical Condition**

It is the intention of Highland Community College to work toward full compliance with the Americans with Disabilities Act, to make instructional programs accessible to all people, and to provide reasonable accommodations according to the law.

Students should understand that it is their responsibility to self-identify their need(s) for accommodation and that they must provide current, comprehensive diagnosis of a specific disability or medical condition from a qualified professional in order to receive services. Documentation must include specific recommendations for accommodation(s). Documentation should be provided in a timely manner prior to or early in the semester so that the requested accommodation can be considered and, if warranted, arranged.

In order to begin the process all students **must** complete the “Disabilities Self-Identification Form” on our [Disability Services website](#).

This form can also be accessed at the Highland Community College homepage under Students Services/Student Resources/Disability Service or by contacting the Disabilities Coordinator.

#### **A Note on Harassment, Discrimination and Sexual Misconduct**

Highland Community College seeks to assure all community members learn and work in a welcoming and inclusive environment. Title VII, Title IX, and College policy prohibit harassment, discrimination and sexual misconduct. Highland Community College encourages anyone experiencing harassment, discrimination or sexual misconduct to talk to report to the Vice President for Student Services, the Human Resources Director or complete an [online report](#) about what happened so that they can get the support they need and Highland Community College can respond appropriately.

There are both confidential and non-confidential resources and reporting options available to you. Highland Community College is legally obligated to respond to reports of sexual misconduct, and therefore we cannot guarantee the confidentiality of a report, unless made to a confidential resource. Responses may vary from support services to formal investigations. As a faculty member, I am required to report incidents of sexual misconduct and thus cannot guarantee confidentiality. I must provide our Title IX coordinator with relevant details such as the names of those involved in the incident. For more information about policies and resources or reporting options, please review our [Equity Grievance Policy](#).