



HEOC 101 - Pharmacology Course Outline

Approval Date: 05/08/2007

Effective Date: 08/01/2007

SECTION A

Unique ID Number CCC000244518

Discipline(s)

Division Health Occupations

Subject Area Health Occupations

Subject Code HEOC

Course Number 101

Course Title Pharmacology

TOP Code/SAM Code 1260.00 - Health/Medical Preparatory Programs, Other* / C - Occupational

Rationale for adding this course to the curriculum The rationale for offering this course is to introduce health occupation students to general information about pharmacology. Pharmacology 101 is a prerequisite for the Vocational Nursing and Psychiatric Technician Programs.

Units 3

Cross List N/A

Typical Course Weeks

Total Instructional Hours

Contact Hours

Lecture 54.00

Lab 0.00

Activity 0.00

Work Experience 0.00

Outside of Class Hours 108.00

Total Contact Hours 54

Total Student Hours 162

Open Entry/Open Exit No

Maximum Enrollment

Grading Option Letter Grade Only

Distance Education On-Campus
Mode of Instruction Hybrid
Entirely Online

SECTION B

General Education Information:

SECTION C

Course Description

Repeatability May be repeated 0 times

Catalog Description Pharmacology 101 introduces students to the general principles and application of pharmacology. Topics include drug classifications, indications, side effects and interactions. Drug dosage calculations will be reviewed. This course is a prerequisite for the Vocational Nursing and Psychiatric Technician Programs.

Schedule Description

SECTION D

Condition on Enrollment

1a. **Prerequisite(s):** *None*

1b. **Corequisite(s):** *None*

1c. **Recommended:** *None*

1d. **Limitation on Enrollment:** *None*

SECTION E

Course Outline Information

1. Student Learning Outcomes:

A. At the completion of this Pharmacology course, the student will be able understand and apply the principles of pharmacology.

2. Course Objectives: Upon completion of this course, the student will be able to:

- A. Analyze basic principles of pharmacology
- B. Identify the purpose, side effects and interactions of specific drug classifications
- C. Calculate drug dosages
- D. Describe indications for medication administration routes
- E. Discuss legal issues related to medication administration
- F. Demonstrate an understanding of the effect of medications on body systems
- G.

3. Course Content

- A. Introduction to pharmacology
- B. Drug classifications
 - a. drug resources
- C. Abbreviations and symbols
- D. Biological factors affecting drug action
- E. Routes of drug administration
- F. Forms of medications
- G. Legal aspects of drug administration
- H. Introduction to drug dosage calculations
- I. Responsibilities and Principles of Drug Administration
- J. Medications affecting body systems:

- a. Nervous system
 - b. Respiratory system and antihistamines
 - c. Musculoskeletal system and anti-inflammatory
 - d. Cardiovascular system
 - e. Urinary system
 - f. Digestive system
 - g. Reproductive system
 - h. Endocrine system
- K. Special drugs:
- a. Vitamins, minerals, herbs
 - b. Anti-infectives
 - c. Eye medications
 - d. Analgesics, sedatives, hypnotics
 - e. Anti-neoplastics
 - f.

4. Methods of Instruction:

Distance Education:

5. Methods of Evaluation: Describe the general types of evaluations for this course and provide at least two, specific examples.

Additional assessment information:

Grade will be based upon:

1. Midterm and Final

For example, the midterm, which may include 50-60 multiple choice and 5 short answer questions, covering the first half of the course, using an online timed exam.

2. Quizzes which may include multiple choice and short answer questions.

3. Drug cards to be completed for each of the eight body systems.

For example, students will complete a drug card for each body system covered. An example of the drug cards should include: the generic and trade name of the drug, classification of the drug, forms in which the drug is available, drug actions, indications, side effects, routes of administration, dosage range, and special instructions for giving the medication. The cards will be graded on thoroughness and accuracy of the information.

Letter Grade Only

6. Assignments: State the general types of assignments for this course under the following categories and provide at least two specific examples for each section.

- A. Reading Assignments
Selected readings from textbook.

For example, selected readings may include Chapter 16: Gastrointestinal Drugs, pages 249-270, in "Essential of Pharmacology for health occupations, 5th edition."

For example, selected readings may include Chapter 9: Administration by the parenteral route, pages 109-139, in "Essential of Pharmacology for health occupations, 5th edition."

B. Writing Assignments
Writing

For example, students are to write a response to the following: The online environment is sometimes thought to be "disconnected" from other classmates and even course faculty. Please tell us about yourself. Briefly explaining what inspired you to choose to take pharmacology course and what your interest and goals are in the medical field. Lastly, tell us what you do to relax or have fun!

Problem Solving

For example, students will complete drug dosage calculations

C. Other Assignments

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7. Required Materials

A. EXAMPLES of typical college-level textbooks (for degree-applicable courses) or other print materials.

Book #1:

Author: Woodrow, R.
Title: Essentials of pharmacology for health occupations
Publisher: Albany, New York: Delmar
Date of Publication: 2007
Edition: 5th

Book #2:

Author: Ogden, Sheila
Title: Calculating of Drug Dosages
Publisher: Mosby
Date of Publication: 2007
Edition: 8th

B. Other required materials/supplies.

- Student Handbook
- HEOC 101 Pharmacology Syllabus (available online)