

North Central **Michigan College**

NCMC MASTER COURSE SYLLABUS FOR YEARS: 2001-2003

DIVISION/AREA: Natural Sciences, Health and Human Services DEPARTMENT: Allied Health

AREA DEAN: Timothy Dykstra, Ph.D.

ORIGINATOR: Polly Flippo

TOTAL HOURS OF INSTRUCTION: Lecture: 1 Lab: 0 Total Contact Hours: 1

COURSE NUMBER: AH 281

CREDIT HOURS: 1

COURSE TITLE: Pharmacology I

PREREQUISITE(S)/COREQUISITE(S)/ADVISORY:

Prerequisite: N101/N012 or AH 105

CATALOG DESCRIPTION: An introduction to the general principles of drugs and how they alter biological functions. Instruction focuses on the effect of specific drugs on body systems including the endocrine and reproductive system. In addition, the pharmacology of antiinfectives and anesthetic agents are covered. Special emphasis is placed on the importance of understanding pharmacology with respect to nursing practice.

COURSE OBJECTIVES & OUTCOMES:

Upon completion of the course, the student will:

1. Discuss the role of pharmacology in nursing practice and necessity of life long learning.
2. Identify legal and regulatory issues regarding drugs, as they relate to nursing practice.
3. Describe the problems commonly encountered during drug therapy with emphasis on their prevention and/or resolution.
4. Discuss role of patient education as it relates to compliance, positive outcomes and untoward events.
5. Identify the concepts and the role of pharmacokinetics and pharmacodynamics as they relate to drug and dosage form characteristics and their influence on subsequent patient responses.
6. Describe the pharmacological application, including beneficial and undesirable effects of prototype drugs from the following categories: endocrine system, reproductive system, infectious diseases, and anesthetic agents.

METHODS OF INSTRUCTION: Lecture, discussion, case studies, medication dosage calculations.

METHODS OF EVALUATION: Tests, quizzes and medication cards

REQUIRED TEXTS: Lehne RA, Moore, LA, Crosby LJ, and Hamilton DB. Pharmacology for Nursing Care, 3rd Ed., W.B. Saunders, Philadelphia, 1998.

Optional supplementary Materials:

Reasonable accommodations may be provided for students with documented physical, sensory, cognitive, systemic, and/or psychiatric disabilities. Please contact the Education Opportunity Program (EOP) at (231) 348-6687 to arrange services for this course.

TIME ALLOWANCE AND SEQUENCE OF INSTRUCTION:

Week

1. Principles of Pharmacology
2. Principles of Pharmacology
3. Principles of Pharmacology
4. Drugs Used in Anesthesia
5. Test
6. Antiinfectives
7. Antiinfectives
8. Antiinfectives
9. Test
10. Endocrine System
11. Endocrine System
12. Test
13. Endocrine System
14. Endocrine System
15. Reproductive System
16. Test

