

North Central **Michigan College**

NCMC MASTER COURSE SYLLABUS FOR YEARS: 2001-2003

DIVISION/AREA: Natural Sciences, Health and Human Service 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 283

CREDIT HOURS: 1

COURSE TITLE: Pharmacology III

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

Prerequisite: Pharmacology I & II, N 242, N276 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 cardiovascular, renal, gastrointestinal, and central nervous systems. Drugs used in chemotherapy are also 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. Describe the problems commonly encountered during drug therapy with emphasis on their prevention and/or resolution.
3. Discuss role of patient education as it relates to compliance, positive outcomes and untoward events.
1. 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.
2. Describe the pharmacological application, including beneficial and undesirable effects of prototype drugs from the following categories: cardiovascular system, renal system, central nervous system, gastrointestinal system, and oncological diseases.

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. Gastrointestinal
2. Gastrointestinal
3. Test
4. Cardiovascular
5. Cardiovascular
6. Cardiovascular
7. Test
8. Renal
9. Renal
10. Renal
11. Test
12. Central Nervous System
13. Central Nervous System
14. Oncology
15. Oncology
16. Test