

# MINNESOTA WEST COMMUNITY & TECHNICAL COLLEGE

## COURSE OUTLINE

DEPT. MEDA

COURSE NUMBER: 2135

NUMBER OF CREDITS: 3

Lecture: 3 Lab: 0 OJT: 0

### Course Title:

Pharmacology

### Catalog Description:

Pharmacology introduces pharmacological concepts and drug classifications as they apply to the diseases and disorders they prevent and/or treat. The class also explores the effects of drugs on the different body systems.

### Prerequisites or Necessary Entry Skills/Knowledge:

HC 1151 or both BIOL 2201 and BIOL 2202.

### FULFILLS MN TRANSFER CURRICULUM AREA(S) (*Leave blank if not applicable*)

- Goal 1: Communication: By meeting the following competencies:
- Goal 2: Critical Thinking: By meeting the following competencies:
- Goal 3: Natural Sciences: By meeting the following competencies:
- Goal 4: Mathematics/Logical Reasoning: By meeting the following competencies:
- Goal 5: History and the Social and Behavioral Sciences: By meeting the following competencies:
- Goal 6: The Humanities and Fine Arts: By meeting the following competencies:
- Goal 7: Human Diversity: By meeting the following competencies:
- Goal 8: Global Perspective: By meeting the following competencies:
- Goal 9: Ethical and Civic Responsibility: By meeting the following competencies:
- Goal 10: People and the Environment: By meeting the following competencies:

### Topics to be Covered

Drug sources and forms, the medication prescription/order, schedules of controlled substances. Indications and desired actions, routes, dosages, side effects and interactions of drugs from the drug classifications of antibiotics, antifungal agents, antivirals, immunizing agents, antineoplastic agents, vitamins/minerals/herbs, psychotropic drugs, and drugs used for disorders of the following body systems: musculoskeletal system, gastrointestinal system, cardiovascular system, respiratory system, urinary system, endocrine system, nervous system, and reproductive system

Patient and family education, special considerations for pediatric and elderly populations, and substance abuse.

## Student Learning Outcome

Apply basic concepts of pharmacology, including but not limited to terminology, drug sources, and drug forms.

Identify the parts of a medication order or prescription.

Discuss legal aspects of ordering and dispensing medications, including the scheduling and regulation of controlled substances.

Utilize drug reference books to derive accurate information about drugs.

Categorize drugs into therapeutic classifications.

Discuss indications and desired actions, routes, dosages and side effects of drugs from the classifications studied.

Explore interactions drugs may have with other drugs, foods and other substances.

Identify special considerations that apply to pharmacology for pediatric and elderly populations.

Apply knowledge of drugs to determine appropriate patient/family education.

**Is this course part of a transfer pathway: Yes  No**

**\*If yes, please list the competencies below**

Revised Date: 1/24/2022