

**MINNESOTA WEST COMMUNITY & TECHNICAL
COLLEGE
COURSE OUTLINE**

DEPT. NURS

COURSE NUMBER: 2130

NUMBER OF CREDITS: 2

Lecture: 2 Lab: 0 OJT: 0

Course Title:

Pharmacology: A Pathophysiologic Approach I

Catalog Description:

Pharmacology: A Pathophysiologic Approach I provides an opportunity to synthesize pharmacologically, basic pathophysiologic, and nursing concepts to minimize the risk of harm to patients. Promotes the use of current information to prevent error and support decision making related to the nurse patient relationship, body defenses, hematopoiesis, cardiovascular function, respiratory function, urinary function, and nervous function as it correlates with pharmacologic therapy. Medical Math including arithmetic, metric measuring, calculation of oral medications and basic medication administration will be included.

Prerequisites or Necessary Entry Skills/Knowledge:

Admission to the Associate in Science nursing program.

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

Classifications of medications.

Therapeutic effects, side effects, and adverse effects of medications correlated with patient safety issues.

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| Dosage calculation for safe medication management. |
| Pathophysiology related to the nurse-patient relationship, body defenses, hematopoiesis, cardiovascular function, respiratory function, urinary function, and nervous function as it correlates with pharmacologic therapy. |
| Medical Math: arithmetic, metric measuring, calculation of oral medications, and basic of medication administration. |

Student Learning Outcomes

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| Describe the conceptions of evidence-based practice as they relate to pharmacologic interventions for patient care (QSEN: patient-centered care and Evidence-Based Practice) |
| Examine classifications of medications utilized to manage common disorders. (NLN: Nursing judgment). |
| Integrate knowledge of pathophysiology with principles of pharmacology to facilitate patient safety. (QSEN: Safety). |
| Explain therapeutic effects, side effects, and adverse effects of classes of medications from a pathophysiologic perspective. (QSEN: Safety). |
| Explain patient-centered care interventions to facilitate safety related to pharmacologic therapy. (NLN: Nursing Judgment). |
| Distinguish priority assessments and interventions that demonstrate clinical judgment and facilitate pharmacologic safety. (QSEN: Safety/NLN: Nursing Judgment). |
| Demonstrates mathematical calculation with minimal risk to patient pharmacologic dosage safety through individual performance (QSEN: Safety). |

Is this course part of a transfer pathway: Yes ☐ No ☒

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

Revised Date: 1/4/2023