

MINNESOTA WEST COMMUNITY & TECHNICAL COLLEGE

COURSE OUTLINE

DEPT. PHRM

COURSE NUMBER: 1105

NUMBER OF CREDITS: 5

Lecture: 2 Lab: 3 OJT 0

Course Title:
Pharmacy Principles and Practices II

Catalog Description:
Pharmacy Principles and Practices II demonstrates the preparation of retail and institutional pharmacy practices. Perform advanced procedures including Intravenous (IV) drug admixture, total parenteral nutrition (TPN) and critical care IV admixture. Students will learn and demonstrate understanding of various billing systems as well as the universal medical coding system which uses numerical codes to classify medical conditions and treatments. Apply personal safety and hygiene related to pharmacy practices will be covered. Students will demonstrate knowledge and skill in filling prescriptions in a lab setting and develop communication skills associated with pharmacy technicians.

Prerequisites or Necessary Entry Skills/Knowledge:
PHRM 1100

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
The advanced concepts of pharmacy procedures and practices.

Student Learning Outcome
Demonstrate proper hygiene, safety protocol and equipment used in the preparation of sterile products and medications.
Follow policies and procedures for infection control.
Interpret medication orders, prepare labeling, calculate quantities of ingredients, patient dosages and flow rates.
Define and demonstrate understanding of milliequivalents (mEq), milimoles (mM), osmosis, electrolytes, symbols, and atomic weight relationships.
Utilize apothecary and metric systems for calculating and preparing prescriptions.
Discuss legal and regulatory guidelines associated with the preparation of intravenous products and sterile admixtures.
Discuss potential conflicts associated with pharmacy management and supervision including critical thinking and problem solving techniques.
Discuss and explain the principles of change management.
Identify sources of stress related to the pharmacy setting and describe stress management techniques that are utilized to relieve this stress.
Discuss the professional communication skills necessary for conflict resolution.
Describe the interaction between the pharmacy, insurance companies and doctors as it relates to the universal medical coding system.
Demonstrate professional communication skills necessary to interact with patients and the various healthcare teams.
Utilize pharmacy management software in a laboratory setting.
Demonstrate various operations of the pharmacy settings.
Explain the processes of prescription adjudication.
Demonstrate methods of prescription verification.
Locate generic names, brand names and medication indicators in pharmacy references.
Review pharmacy reference materials, formulary lists, and reports on investigational medications.
Assemble prescription files accurately.
Describe the pharmacy floor stock system for controlled drugs, non-controlled drugs, chemicals and over-the-counter medications.
Explain storage requirements for different medications.
Describe various distribution medication systems.
Describe policies and procedures for the distribution of controlled substances.
Describe the retail area of the pharmacy and how over-the-counter medications are organized.
Describe the process of maintaining inventory and ordering supplies.
Describe quality assurance methods.

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

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

Revised Date: 1/24/2022