School of Nursing and Health Professions Syllabus

HUDSON COUNTY COMMUNITY COLLEGE
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Term: **Credits: 6** **Office Hours:**

Course Code: PHM 201 **Office Location:**

Title of Course: Pharmacy Tech. II **Email:**

Days & Times: **Phone:**

Location: **Prerequisites: PHM 101**

Instructor:

COURSE DESCRIPTION: This course builds upon foundational pharmacy technician knowledge, covering additional roles and responsibilities of a practicing pharmacy technician. Topics include IV medications, sterile and non-sterile compounding, inventory control, and the legal aspects of dispensing drugs. Emphasis is placed on advanced pharmaceutical calculations, regulatory compliance, and hands-on training in compounding techniques. The course includes a hands-on lab component where students practice skills through hands-on activities that simulate real-world pharmacy settings.

COURSE OBJECTIVES:

Upon successful completion of this course, students will be able to:

1. Explain the role and responsibilities of a pharmacy technician in compounding and IV preparation.
2. Apply USP 795 and USP 797 guidelines for sterile and non-sterile compounding.
3. Demonstrate accurate pharmaceutical calculations related to concentrations, dilutions, and parenteral dosing.
4. Identify and adhere to legal and ethical regulations governing pharmacy practice.
5. Perform inventory control procedures, including stock rotation and expiration date management.
6. Properly handle and prepare IV medications, including calculating drip rates and mixing solutions.
7. Utilize appropriate techniques and equipment for preparing compounded prescriptions.
8. Assess the impact of regulatory agencies such as the FDA, DEA, and State Boards of Pharmacy on daily pharmacy operations.
9. Explain the principles of patient safety and error prevention in pharmacy practice.
10. Demonstrate professionalism and effective communication within a pharmacy setting.

STUDENT LEARNING OUTCOMES:

Lab/Clinical: 3 hours/wk

TEXTBOOK REQUIRED:

Pharmacy Technician, The: Foundations and Practices, 3rd edition

Publisher : Pearson; 3rd edition
ISBN-10 : 0135204178
ISBN-13 : 978-0135204177

EVALUATION METHODS:

- Exams (30%)
- In class reflection writing Assignments (15%)
- Participation and in class discussions (15%)
- Labs (20%)
- Final Exam (20%)

WEEKLY OUTLINE:

Session Number	Lecture Topic(s)	Corresponding Student Learning Outcome(s)	Lab Component
1	Introduction to Advanced Pharmacy Technician Roles	1, 10	Lab 1: Introduction to Lab Safety and Equipment
2	Pharmacy Law and Ethics	4, 8	
3	Non-Sterile Compounding Basics	2, 7	Lab 2: Preparing Simple Non-Sterile Compounds
4	USP 795 Guidelines and Procedures	2, 7	Lab 3: Hands-on Non-Sterile Compounding Following USP 795
5	Sterile Compounding and USP 797	2, 7	Lab 4: Aseptic Technique and Sterile Compounding Preparation
6	Introduction to IV Medications	1, 6	
7	Parenteral Calculations	3, 6	Lab 5: Parenteral Medication Dosage and Drip Rate Calculations
8	Preparing and Administering IV Medications	6	Lab 6: IV Bag Preparation and Administration Techniques
9	Inventory Control and Management	5	
10	OTC Products and Patient Counseling	9, 10	Lab 7: Patient Counseling Scenarios and Medication Recommendations
11	Concentrations, Dilutions, and Stock Solutions	3	Lab 8: Preparing Stock Solutions and Dilutions
12	Retail and Institutional Pharmacy Operations	10	

13	Advanced Pharmaceutical Math	3	Lab 9: Advanced Pharmacy Calculations and Case Applications
14	Case Studies in Pharmacy Practice	9, 10	
15	Final Review and Assessment	All	

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https://www.hccc.edu/administration/academic-affairs/syllabus-addendum.html