PHARM 157 Course Outline as of Spring 2007

CATALOG INFORMATION

Dept and Nbr: PHARM 157 Title: HOSPITAL PHARM PRACTICE
Full Title: Hospital Pharmacy Practice for the Pharmacy Technician
Last Reviewed: 9/11/2023

Units		Course Hours per Week		Nbr of Weeks	Course Hours Total	
Maximum	0.50	Lecture Scheduled	1.00	8	Lecture Scheduled	8.00
Minimum	0.50	Lab Scheduled	1.50	8	Lab Scheduled	12.00
		Contact DHR	0		Contact DHR	0
		Contact Total	2.50		Contact Total	20.00
		Non-contact DHR	0		Non-contact DHR	0

Total Out of Class Hours: 16.00 Total Student Learning Hours: 36.00

Title 5 Category:	AA Degree Applicable
Grading:	Grade Only
Repeatability:	00 - Two Repeats if Grade was D, F, NC, or NP
Also Listed As:	
Formerly:	

Catalog Description:
This course is designed to prepare the Pharmacy Technician for employment in an inpatient hospital setting including employment as a fill technician and/or IV compounding technician.

Prerequisites/Corequisites:
Completion of PHARM 151, PHARM 152, PHARM 153, and PHARM 154A.

Recommended Preparation:
Eligibility for ENGL 100 or ESL 100

Limits on Enrollment:

Schedule of Classes Information:
Description: This course is designed to prepare the Pharmacy Technician for employment in an inpatient hospital setting including as a fill technician and/or IV compounding technician. (Grade Only)
Prerequisites/Corequisites: Completion of PHARM 151, PHARM 152, PHARM 153, and PHARM 154A.
Recommended: Eligibility for ENGL 100 or ESL 100
Limits on Enrollment:

Transfer Credit:
Repeatability: Two Repeats if Grade was D, F, NC, or NP

ARTICULATION, MAJOR, and CERTIFICATION INFORMATION:

AS Degree:	**Area**	Effective:	Inactive:
CSU GE:	**Transfer Area**	Effective:	Inactive:
IGETC:	**Transfer Area**	Effective:	Inactive:

CSU Transfer:	Effective:	Inactive:
UC Transfer:	Effective:	Inactive:

CID:

Certificate/Major Applicable:
Certificate Applicable Course

COURSE CONTENT

Outcomes and Objectives:
Upon completion of this course, the student will be able to:
1. Recognize the differences between retail pharmacy and hospital pharmacy and the skills required for working in a hospital inpatient setting.
2. Acquire the ability to communicate effectively with professional and ancillary staff in the hospital setting.
3. Compare and contrast the unique medication delivery systems found in hospital and inpatient environments and implement them efficiently and effectively.
4. Integrate physician orders, fill lists, and complete medication administration records in order to fulfill patients medication needs on a daily basis.
5. Differentiate between medications and medication dosage forms, and demonstrate the ability to compound medications accurately and safely.
6. Function as an effective member of the medication delivery team in an inpatient setting.

Topics and Scope:

1. Introduction to the hospital environment
   A. Professional staffing and personnel policies
   B. Formularies
   C. Standard operation procedures
      1. Joint Commission on Accreditation of Healthcare Organizations
      2. Pharmacy & Therapeutics Committee
   D. Purchasing, Central supply
   E. Reading medication orders and terminology used on hospital orders
2. Hospital medication delivery systems and vocabulary

A. Physician's order
B. Medication administration record, fill lists, unit dose, automated drug delivery systems.
C. Floor stock
1. Medication carts
2. Crash carts
D. Urgent (Stat) orders vs. standing orders
E. Inventory control
F. Transfer medications
G. Recapture of unused medications
H. Billing

3. Needles and Syringes
A. Small and large volume parenterals
B. Vials, ampules
C. Intravenous (IV) administration sets
1. Filter needles
2. Flow rates
3. Aseptic technique of IV medication
4. Sterile preparation of IV medication
D. Gowning and gloving
E. High Efficiency Particulate Air filters
F. Biological safety cabinet: working in the laminar and Vertical flow hoods

4. IV solution/medication compatibility
A. Choosing the correct tools to prepare IV solutions
B. Labeling IV preparations
1. Inpatient use
2. Outpatient use
C. Calculating
1. Flow rates
2. Powder volume
3. Expiration dates

5. Preparing total parenteral nutrition (TPN)
A. Gravity method vs. auto-mix compounding
B. Preparing TPN admixture report
C. Creating a medication pool

6. Single dose and Multi-dose vials
A. Preparation and storage
B. Working with ampules
C. Reconstituting powders

7. Chemotherapy agents
A. Safety issues
B. Use of Chemo Spill Kit
C. Safety equipment
D. Correct selection of equipment
E. Labeling and packaging of chemotherapy preparations
F. Disposal of biohazard materials

Assignment:

1. Reading assignments in the textbook, 10-20 pages per week.
2. Homework: create labels for practice medications to be used

in the lab portion of the class.
3. Laboratory skill demonstrations: Techniques and manipulation skills for hospital devices and medications; preparation of work area.
4. Laboratory problem solving: Dosage calculations; correct preparation of medications.
5. Weekly quizzes on terminology; 2 exams; final examination.

Methods of Evaluation/Basis of Grade:

Writing: Assessment tools that demonstrate writing skills and/or require students to select, organize and explain ideas in writing.

None, This is a degree applicable course but assessment tools based on writing are not included because problem solving assessments and skill demonstrations are more appropriate for this course.	Writing 0 - 0%

Problem Solving: Assessment tools, other than exams, that demonstrate competence in computational or non-computational problem solving skills.

Lab problem solving.	Problem solving 45 - 50%

Skill Demonstrations: All skill-based and physical demonstrations used for assessment purposes including skill performance exams.

Laboratory skill demonstrations; labels.	Skill Demonstrations 5 - 10%

Exams: All forms of formal testing, other than skill performance exams.

Multiple choice, True/false, Matching items, Completion, Essay Questions	Exams 45 - 50%

Other: Includes any assessment tools that do not logically fit into the above categories.

None	Other Category 0 - 0%

Representative Textbooks and Materials:
Johnston, Mike. Sterile Products: The Pharmacy Technician Series. Prentice Hall PTR, 2005.