



## **Institutional Pharmacy Practice (PHRA 1349)**

**Credit:** 4 semester credit hours (2 hours lecture, 2 hours lab)

**Prerequisite:** Complete the TSI Assessment Tests with 343/Mathematics, 347/Reading, and 357/4/Writing

### **Course Description**

Fundamentals of the diverse roles and practice of pharmacy technicians in an institutional pharmacy setting. In-depth coverage of hospital pharmacy organization, work flow and personnel, safety techniques, data entry, packaging and labeling operations, inpatient drug distribution systems including investigational drugs, continuous quality improvement and inventory control.

### **Required Textbook and Materials**

1. Hospital Pharmacy Practice for Technicians  
Authors: Mark Burton  
ISBN: 978-1-284-03046-4

### **Course Objectives**

Upon completion of this course, the student will be able to:

1. Identify the organization and communication across the multi-disciplinary health care-team.
2. Utilize pharmacy reference materials, medical and pharmaceutical terminology in the interpretation of medication orders.
3. Relate the importance of environmental, pharmacy, and personal safety standards to workplace behaviors in the institutional setting.
4. Demonstrate the procedures and work flow operations relating to processing medication orders, and preparing medications in an institutional setting to include mechanical, automatic and robotic drug delivery systems.

### **Course Outline**

- I. Introduction
  - A. Health System and Pharmacy Technician Overview
    1. Introduction
    2. Origin
    3. Evolution
    4. Current Roles
    5. Future
- II. Professionalism in the Health System Pharmacy
  - A. Appearance and Attitude
    1. Appearance
    2. Attitude
    3. Mindset

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- B. Behaviors and Practices
  - 1. Punctuality
  - 2. Accountability
  - 3. Ethics
  - 4. Critical Thinking
- C. Interactions and Decorum
  - 1. Communication
  - 2. Hospital Personnel
  - 3. Chain of Command
  - 4. Stressful Situations
- III. The Pharmacy Team: Functions and Duties
  - A. Central Technician
    - 1. Telephone Calls
    - 2. Face-to-Face Interactions
    - 3. Medication Filling
    - 4. Crash Carts
    - 5. Anesthesia Trays
  - B. IV Room Technician
    - 1. Overview
    - 2. Pre-preparation Concepts and Procedures
    - 3. Preparation Concepts and Procedures
    - 4. Post preparation Procedures
    - 5. Non-preparation Procedures
  - C. Automation Technician
    - 1. Medication Dispensing Overview
    - 2. Primary Technician ADC Activities
    - 3. Secondary Technician Activities
  - D. Specialty Roles and Duties
    - 1. Purchasing Agent
    - 2. Satellite Technician
    - 3. Controlled Substance Technician
    - 4. Technician Supervisor
    - 5. Automation Manager
    - 6. Medication Reconciliation Technician
  - E. Medication Safety
    - 1. Organizations
    - 2. Definitions
    - 3. Importance and Relevance
    - 4. Error Categories
    - 5. Error Causes
    - 6. Methods of Prevention

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- IV. Informatics and Technology
  - A. Health System Software and Equipment
    - 1. ADT Systems
    - 2. Nursing Equipment and Software
    - 3. Physician Equipment and Software
    - 4. Fully Integrated Systems
    - 5. Troubleshooting
  - B. Pharmacy Management Software and Peripherals
    - 1. Functionality
    - 2. Technician Operations
    - 3. Order Scanning Software and Equipment
  - C. Automation Software and Peripherals
    - 1. Main Console
    - 2. Connectivity
    - 3. Overrides
    - 4. Handheld Scanner Devices and Applications
  - D. Repacking Technology
    - 1. Pill and Capsule Repackaging
    - 2. Oral Liquid Repackaging
  - E. IV Room Technology
    - 1. Horizontal Laminar Airflow Workbenches
    - 2. Barrier Isolators
    - 3. Biological Safety Cabinets
    - 4. Compounding Devices
    - 5. Maintenance and Quality Control
- V. Get Set for Your Career
  - A. Credentials
    - 1. Licenses, Registrations, and Certifications
    - 2. Renewals and Continuing Education
    - 3. Professional Organizations
  - B. Finding Employment
    - 1. Networking
    - 2. Applying for a Position
    - 3. Interviewing
    - 4. References

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**Grade Scale**

90 – 100	A
80 – 89	B
70 – 79	C
60 – 69	D
0 – 59	F

**Course Evaluation**

Final grades will be calculated according to the following criteria:

- |                             |     |
|-----------------------------|-----|
| 1. 3 Unit Tests             | 40% |
| 2. Comprehensive Final Exam | 25% |
| 3. Homework/Quizzes         | 10% |
| 4. Labs                     | 15% |
| 5. Semester Project         | 10% |

**Course Requirements**

1. Quizzes and Homework
2. Exams and Final Exam
3. Class Participation

**Technical Requirements (for courses using Blackboard)**

The latest technical requirements, including hardware, compatible browsers, operating systems, software, Java, etc. can be found online at:

[https://help.blackboard.com/en-](https://help.blackboard.com/en-us/Learn/9.1_2014_04/Student/015_Browser_Support/015_Browser_Support_Policy)

[us/Learn/9.1\\_2014\\_04/Student/015\\_Browser\\_Support/015\\_Browser\\_Support\\_Policy](https://help.blackboard.com/en-us/Learn/9.1_2014_04/Student/015_Browser_Support/015_Browser_Support_Policy) A functional broadband internet connection, such as DSL, cable, or WiFi is necessary to maximize the use of the online technology and resources.

**Disabilities Statement**

The Americans with Disabilities Act of 1992 and Section 504 of the Rehabilitation Act of 1973 are federal anti-discrimination statutes that provide comprehensive civil rights for persons with disabilities. Among other things, these statutes require that all students with documented disabilities be guaranteed a learning environment that provides for reasonable accommodations for their disabilities. If you believe you have a disability requiring an accommodation, please contact the Special Populations Coordinator at (409) 880-1737 or visit the office in Student Services, Cecil Beeson Building.

**Student Code of Conduct Statement**

It is the responsibility of all registered Lamar Institute of Technology students to access, read, understand and abide by all published policies, regulations, and procedures listed in the *LIT Catalog and*

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*Student Handbook*. The *LIT Catalog and Student Handbook* may be accessed at [www.lit.edu](http://www.lit.edu) or obtained in print upon request at the Student Services Office. Please note that the online version of the *LIT Catalog and Student Handbook* supersedes all other versions of the same document.