

Bossier Parish Community College
Master Syllabus

Course Prefix and Number: PHAR 110L

Credit Hours: 1

Course Title: Sterile Products lab

Course Prerequisite: Phar 101, Phar 102, Phar 102L, Phar 104

Course Co-requisite: Phar 120, Phar 110

Textbooks: L. McCartney; Sterile Compounding & Aseptic Technique, Edition: 1st

Course Description:

This course provides activities or laboratory exercises to support PHAR 110 lecture.

Learning Outcomes:

- A. Demonstrate problem solving skills through mathematical calculations essential to the duties of the pharmacy technician in a variety of settings.
- B. Use current technology to assist the pharmacist in preparing, storing, and distributing medication products requiring special handling and documentation to ensure safety and accuracy.
- C. Use information from Center for Disease Control(CDC), Occupational Safety and Health Administration(OSHA), Safety Data Sheets (SDS), National Institute of Occupational Safety and Health (NIOSH) Hazardous Drug List, and the United States Pharmacopeia (USP) to identify, handle, dispense, and safely dispose of hazardous medications and materials and adhere to effective infection control procedures.
- D. Prepare simple non-sterile medications, compounded sterile preparations, simulate chemotherapy/hazardous drug preparations per applicable USP chapters.
- E. Apply patient and medication safety practices in aspects of the pharmacy technician's role
- F. Participate in pharmacy compliance with professional standards and relevant legal, regulatory, formulary, contractual, and safety requirements.

To achieve the learning outcomes, the student will complete the following labs and activities to achieve the identified objectives:

Lab 1: Personal Aseptic Technique (A, B, E, F)

- 1. Demonstrate proper handwashing technique.
- 2. Demonstrate the proper technique for garbing for sterile products preparation.

Lab 2: ASHP's Assessment Guide to Chapter <797> (C, D)

- 1. Demonstrate a basic understanding of USP 797 and USP 800
- 2. Utilize critical thinking to correctly analyze identify errors aseptic technique

Lab 3: Cleaning the Vertical Laminar Flow Hood (E, F)

1. Demonstrate the proper technique for cleaning of the vertical laminar flow hood

Lab 4: Introduction to Aseptic Manipulations (C, D, E, F)

1. Describe OSHA requirements for prevention and response to blood borne pathogen exposure.
2. Demonstrate the straight draw technique for injecting an IV bag.
3. Demonstrate the correct technique for reconstituting of a powder vial.
4. Demonstrate the proper technique for an ampule draw.
5. Demonstrate the proper technique for aseptically transferring drugs from a vial.

Lab 5: Microbiological Contamination of an IV (C, E, F)

1. Perform a culture test on an IV solution to determine microbial contamination

Lab 6: Application of Sterile Technique in Preparation of Sterile Products (A, B, D, E)

1. Demonstrate proper technique to draw liquid from an ampule.
2. Demonstrate proper technique to reconstitute a powder vial.

Lab 7: Repeater Pump (B, D, E)

1. Demonstrate the proper use of a repeater pump
2. Utilize the repeater pump to fill syringes and Elastomeric Pumps for home infusion.

Lab 8: TPN (A, B, D, E)

1. Utilize video information to understand the process of total parenteral compounding equipment.
2. Correctly perform TPN calculations
3. Demonstrate correct technique in the manual preparation of a total parenteral nutrition solution.

Lab 9: ISOTECH Positive Pressure Barrier Isolator Hood (B, D, E)

1. Demonstrate the ability to operate and maintain a positive pressure barrier hood.
2. Perform a manipulation inside an isolator hood.

Lab 10: Safe Handling of Hazardous Drugs (C, E)

1. Describe the procedures and precautions necessary for the safe handling of Hazardous drugs

Lab 11: Simple Non-sterile Medications (B, C, D, E)

1. Demonstrate the ability to prepare simple non-sterile medications

Course Requirements: To earn a grade of “C” or higher the student must earn 70% of the total points for the course and meet all of the following course requirements.

- minimum 70% on the comprehensive written final exam
- minimum average of 70% in laboratory

- on the laboratory practical exam demonstrate competency on all identified skills as documented on checklist with a maximum of one instructor correction
- minimum of 70% on learning assessments for the national sterile products certification modules

Course Grading Scale

- A- 90% or more of total possible points and meet all course requirements
- B- 80% or more of total possible points and meet all course requirements
- C- 70% or more of total possible points and meet all course requirements
- D- 60% or more of total possible points and meet all course requirements
- F- less than 60% of total possible points or failure to any all of the course requirements.

Attendance Policy: The college attendance policy, which is available at <http://www.bpcc.edu/catalog/current/academicpolicies.html>, allows that “more restrictive attendance requirements may apply to some specialized classes such as laboratory, activity, and clinical courses because of the nature of those courses.”

Course Fees: This course is accompanied with an additional non-refundable fee for supplemental materials, laboratory supplies, certification exams and/or clinical fees.

Nondiscrimination Statement

Bossier Parish Community College does not discriminate on the basis of race, color, national origin, gender, age, religion, qualified disability, marital status, veteran's status, or sexual orientation in admission to its programs, services, or activities, in access to them, in treatment of individuals, or in any aspect of its operations. Bossier Parish Community College does not discriminate in its hiring or employment practices.

COORDINATOR FOR SECTION 504 AND ADA

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Equity/Compliance Coordinator
 Teri Bashara, Director of Human Resources
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 Bossier City, LA 71111
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JAP 03/29/2022