

Las Positas College
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Course Outline for PHT 54

PHARM TECH CLINICAL PRACTICE

Effective: Fall 2010

I. CATALOG DESCRIPTION:

PHT 54 — PHARM TECH CLINICAL PRACTICE — 4.50 - 6.00 units

Application of pharmaceutical knowledge, pharmacy law, mathematics, dosage calculation, medical terminology to various practice setting, inventory control, drug storage, record keeping, prepare and package medications accordingly and accurately.

4.50 - 6.00 Units Lab

Prerequisite

PHT 51 - ADVANCED PHARMACY OPERATIONS
with a minimum grade of C
and

PHT 53 - PHARMACOLOGY FOR PHARM TEC II
with a minimum grade of C

Grading Methods:

Letter Grade

Discipline:

	<u>MIN</u>	<u>MAX</u>
Lab Hours:	243.00	324.00
Total Hours:	243.00	324.00

II. NUMBER OF TIMES COURSE MAY BE TAKEN FOR CREDIT: 1

III. PREREQUISITE AND/OR ADVISORY SKILLS:

Before entering the course a student should be able to:

A. PHT51

1. explain the rules and prefixes of metric system;
2. demonstrate the use of basic units of weight, volume, and length;
3. perform percentage calculations;
4. demonstrate measurement of required doses using a syringe;
5. prepare parenteral medications including accurate labeling;
6. demonstrate use of relevant syringes for drug measuring and administering;
7. perform extemporaneous compounding;
8. demonstrate liquid measurement with graduates;
9. describe different types of mortars and pestles;
10. compare different types of laminar hoods.
11. calculate quantity and days supply of finished dosage forms for dispensing
12. measure or count quantity of finished dosage forms for dispensing
13. process and handle chemotherapeutic medications commercially available in finished dosage forms (for example, Efudex, mercaptopurine)
14. perform calculations for oral chemotherapeutic medications
15. perform calculations for compounding medications
16. package finished dosage forms (for example, blister pack, robotic/automated dispensing vial)
17. affix label(s) and auxiliary label(s) to container(s)
18. assemble patient information materials (for example, drug information sheets, patient package inserts, Health Information Portability and Accountability Act [HIPAA] literature)
19. check for accuracy during processing of the prescription/medication order (for example, National Drug Code [NDA] number, bar code, and data entry)
20. verify the data entry, measurements, preparation, and/or packaging of medications produced by other technicians as allowed by law (for example, tech check tech)
21. prepare prescription or medication order for final check by pharmacist
22. prepare prescription or medication order for final check by pharmacy technician as allowed by law (for example, tech check tech)
23. complete inventory tasks including placing pharmaceuticals and medical equipment in inventory, removing and disposing properly of expired inventory.
24. maintain records for controlled substances or investigational products

B. PHT53

1. apply knowledge of principles of pharmacology to the role of Pharmacy Technician;
2. identify pharmaceutical treatments for major diseases of the gastrointestinal system, endocrine and reproductive systems;
3. recognize common antibiotics and anti-infectives;
4. summarize the biological activity of vitamins and supplements ;
5. describe potential interactions between vitamins and pharmaceutical drugs;
6. know generic and brand names of pharmaceuticals
7. describe epidemiology and risk factors for various diseases
8. describe drug allergies
9. describe the effect of patient's age on drug therapy

IV. MEASURABLE OBJECTIVES:

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

- A. collect pertinent patient information for pharmacists;
- B. contact other health care provider for questions that do not involve clinical judgments;
- C. summarize the overall structure and operation of a pharmacy;
- D. participate in the maintenance of inventory control;
- E. demonstrate ethical practice as a Pharmacy Technician
- F. integrate professional interpersonal skills in communication with others;
- G. apply basic knowledge of HIPPA concepts;
- H. integrate knowledge of the law, the requirement/limitation, including the use of the log book when selling:
 1. OTC products that contain epinephrine
 2. needles and syringes
- I. assist Pharmacist with:
 1. drug recall
 2. expired drug return
 3. controlled substance inventory
 4. retrieving medication from stock
 5. filling prescriptions
- J. demonstrate accurate record keeping;
- K. perform accurate prescription filing;
- L. assess written prescription for completeness or possible error;
- M. demonstrate prevention of medication errors;
- N. accurately reports medication errors;
- O. produce assignments using scholarly reference journals, books, and computerized medical searches;
- P. retrieve patient data from the computerized date base;
- Q. create a new patient profile in the computer;
- R. dispose of used syringe and bio-hazardous material using accepted techniques;
- S. prepare prescription labels;
- T. assist patients in locating OTC products;
- U. decide when to refer questions to pharmacist;
- V. reconstitute dry powder antibiotic into liquid form;
- W. demonstrate principles of aseptic technique, including the use of USO 797;
- X. create an extemporaneous compound.

V. CONTENT:

- A. Report to the practice site
 1. Self-introduce and meet the preceptor and other pharmacy staffs
- B. Duties of the pharmacy technician
 1. Wear designated professional attire
 2. Wear name tag
 3. Punctual, reliable
 4. Accountable
 5. Adhere to pharmacy and ethic standard
 6. Observe and comply with federal, state and local laws and regulation
 7. Assist pharmacist in daily pharmacy operation
 8. Customer services:
 - a. greet customer
 - b. retrieve patient profile
 - c. create new patient profile
 - d. interpret, process prescription
 - e. third party insurance billing
 - f. fill prescription
 - g. cashiering
 - h. phone skill
 9. Maintain drug inventory control
 10. Drug distribution
 11. Extemporaneous compounding
 12. Parenteral admixture
 13. Aseptic technique
 14. Preparation and gown up for IV room
 15. Proper drug disposal
 16. Assist pharmacist in gathering reference materials and computer search

VI. METHODS OF INSTRUCTION:

- A. 80-120 hours of practical performance (students will arrange the schedule for the 80-120 practical hours with preceptors)
- B. Daily coaching preceptor or other pharmacy staff
 1. Coaching on skills
 2. Monitoring on performance

VII. TYPICAL ASSIGNMENTS:

- A. Daily journal of learning experiences and questions
- B. Research paper on various aspects of the role of the Pharmacy Technician
- C. Paper on Professional Ethics in the workplace
- D. Completion of various skill-based performance checklists

VIII. EVALUATION:

- A. **Methods**

B. Frequency

1. Frequency:
 - a. Weekly direct observation by Las Positas College instructor
 - b. Final completion and turn in to Las Positas College instructor of the daily journal
 - c. Final completion and turn in to Las Positas College instructor of the skill lists

IX. TYPICAL TEXTS:

X. OTHER MATERIALS REQUIRED OF STUDENTS:

- A. Name badge
- B. Calculator
- C. Note pad
- D. Smock (if required by the externship site)