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Course Outline for PHT 50

PHARM TEC TRAINING I (INTRO)

Effective: Summer 2010

I. CATALOG DESCRIPTION:

PHT 50 — PHARM TEC TRAINING I (INTRO) — 6.00 units

Entry level pharmacy technician training, drug classification and uses, pharmacy laws, rules, regulations and ethics, storage of drugs, record keeping of prescriptions and medications, pharmacy math and dosage calculation, medical terminology, abbreviation and symbols.

3.00 Units Lecture 3.00 Units Lab

ENG 100A - Integrated Reading and Writing I

ESL 23 - College Grammar

MATH 110 - Elementary Algebra with a minimum grade of C

ENG 100B - Reading, Reasoning, and Writing II

MATH 55 - Intermediate Algebra for STEM

<u>Strongly Recommended</u> BIO 50 - Anatomy and Physiology

HSCI 52 - BASIC MEDICAL TERMINIOLOGY

CIS 8 - Essential Computing Skills

Grading Methods:

Letter Grade

Discipline:

	MIN
Lecture Hours:	54.00
Lab Hours:	162.00
Total Hours:	216.00

- 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. ENG100A B. ESL23
- C. MATH110
- D. ENG100B
- E. MATH55

Before entering this course, it is strongly recommended that the student should be able to:

- A. BIO50
- B. HSCI52
 - 1. utilize components of medical terms;
 - combine prefixes, word roots, and suffixes to create medical terms related to surgery;
 - use anatomical, diagnostic, surgical and additional terms as they relate to each body system;
 - construct and combine compound words.
 - pronounce medical terms;

 - write medical terms using correct spelling; use standard medical abbreviations appropriately; demonstrate ability to use a medical dictionary efficiently.

IV. MEASURABLE OBJECTIVES:

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

- discuss the drug classification system
- explain common indication/usage of drugs;
- interpret pharmacy laws, rules, and regulations; Verify the validity of a prescriber's DEA number; Recognize restricted medication orders;
- compare and contrast common types of drug storage methods;
- explain at least two different types of drug record keeping;
- 8. accurately apply pharmacy math to dosage calculations; 9. accurately solve dosage calculation;
- integrate medical terminology into written and verbal communication with other medical professionals;
 compose written and verbal communication using common medical abbreviations and symbols;
- 12. under the direct supervision of a Pharmacist, investigate the role of Pharmacy technicians in various types of pharmacies; 13. organize pertinent information collected from the patients;
- 14. analyze the patient needs in phone calls received from patients; 15. prescription orders for completeness, possible errors;
- 16. Describe techniques, equipment, and supplies for drug administration (for example, insulin syringes and IV tubing)
 17. prepare medications according to directions from ordering agent;

- 18. perform inventory control procedures;
 19. compare and contrast regulations for over-the-counter medications with other types of prescription and controlled drug requiations:
- 20. describe the differences and similarities in a variety of pharmacy practice settings;

- describe the differences and similarities in a variety of pharmacy practice settings;
 demonstrate the role of cashier in the pharmacy Technician's scope of responsibilities;
 explain the issues in third party billing;
 perform customer service for patients and clients that is designed to exceed expectations;
 demonstrate strategies designed to assist the pharmacist in providing pharmaceutical care;
 comply with all federal, state and local laws, and regulations;
 consistently demonstrate professional and ethical standards.
 Perform billing and accounting functions for products and services (for example, self-pay, third-party adjudication, pharmaceutical discount cards, medication reimbursement)
 Provide prescription/medication to patient/natient's representative:
- Provide prescription/medication to patient/patient's representative:
- 29. Process a prescription order

V. CONTENT:

- A. Introduction to pharmacy history and development:

 1. Development of the profession of pharmacy
 2. Evolution of pharmacy regulation
 3. Evolution of pharmacy and drug manufacture
 4. Past, present and future of pharmacy practices
 5. Accorditation of pharmacy technician

 - 5. Accreditation of pharmacy technician
- B. Law and ethics:
 - 1. Federal and state statutes
 - Pharmacy rules and regulations
 - 3. Federal, state and local regulatory agencies
 - Controlled substance act
 - Federal and state controlled substance laws
 - Federal food, drug and cosmetic act
 - Investigational drugs
 - Orphan drug act
 - Drug recalls
 - 10. Federal hazardous substances act
 - 11. Occupational and safety act
 - 12. Omnibus budget reconciliation act
 - 13. Health insurance portability and accountability act
 - 14. Joint commission on accreditation of healthcare organizations
 - 15. Ethic and professional standards
- Medical terminology and abbreviation:
 Recognize word elements of medical terms
 - Interpret medical terminology and abbreviations Recognize apothecary symbols

 - Identify drugs by brand and generic names
 Differentiate "look-alike," and "sound-alike" drugs
- D. Pharmacy math and dosage calculations:

 1. Roman numerals

 - Roman numerals
 Apothecary system
 Metric system
 Common household system
 Conversion between different measurement systems
 Set up proportions to perform dosage calculation
 Fractional dosage calculations
 Calculate dosage based on patient's weight and/or height
 Calculate recommended dose
 - Calculate recommended dose
 - 10. Decimal point

- 11. Interpret drug strength from the prescriptions order
- E. Pharmacy practice settings
 - 1. Hospital pharmacy

 - Community pharmacy
 Home health care pharmacy
 - Long term care pharmacy
 - Mail order pharmacy

 - Nam order pharmacy
 Specialty pharmacy
 Drug information center
 Drug benefits company
 Drug wholesaler
- 10. Insurance reimbursement procedures
 F. Assist Pharmacists in Serving Patients
 1. New patient information
- - 2. Refill authorizations
 - Refill authorizations
 Assess prescription orders for completeness
 Patient history
 Communicate with third party payers
 Procedures for filling prescriptions

VI. METHODS OF INSTRUCTION:

- A. Lecture -
- B. **Demonstration** C. Build interest, maximize describing and retention; problem solving and critical thinking skills: a. Text reading b. Handouts c. Research d. Written assignments e. Group discussion f. Group project g. Individual presentation h. Group presentation
- D. Lab -E. Discussion -

VII. TYPICAL ASSIGNMENTS:

A. Research paper for a prescription drug of students' choices, on drug classification, mechanism of action, common side effects and drug indications, recommended dosage B. Review and interpret sample written prescriptions C. Oral Presentation on an over the counter drug of students' choices D. Group project on the care and use of either a glucometer or a sphygmomanometer E. Quiz on weekly reading assignments F. Demonstrate application from laboratory assignment

VIII. EVALUATION:

A. Methods

- Exams/Tests
- Research Projects
- Papers
- 4. Group Projects5. Class Participation

B. Frequency

- 1. Frequency:

 - quency:
 a. Two midterms
 b. Regular quizzes
 c. One research paper
 d. One individual presentation
 e. One group project/presentation
 f. Comprehensive final examination

IX. TYPICAL TEXTS:

- Johnston Pharmacy Technician, Foundations and Practices., Prentice Hall., 2005.
 Morton Pharmacy Technician. 3rd ed., Perspective Press, 2007.
 Woodrow Essential of Pharmacology for health Occupatio w/CD., . 5th ed., -, 2007.
 Hopkins APhA's Complete Math Review for Pharmacy Technician. 2nd ed., -, 2006.

X. OTHER MATERIALS REQUIRED OF STUDENTS: