El Paso Community College
Syllabus
Part II
Official Course Description

SUBJECT AREA **Pharmacy Technology**

COURSE RUBRIC AND NUMBER **PHRA 1541**

COURSE TITLE **Pharmacy Drug Therapy and Treatment**

COURSE CREDIT HOURS **5 5 1**
Credits Lec Lab

I. Catalog Description

Studies therapeutic agents, their classifications, properties, actions, and effects on the human body and their role in the management of disease. A grade of "C" or better is required in this course to take the next course. **(5:1). Lab fee.**

II. Course Objectives

A. Unit I. Pharmacokinetics and Individual Variations

1. Organize the significant events in pharmacy history.
2. Describe the various drug sources.
3. Explain the foundation of Pharmacokinetics.
4. List the factors of Individual Variation.
5. Define “Drug Interactions.”

B. Unit II. Antibiotics and Antineoplastics

1. Differentiate between brand and generic medications.
2. Identify available dosage forms and doses of medications.
3. Recognize appropriate dosage ranges.
4. Recognize drug indications.
5. Identify compatibility and interactions.
6. Identify storage requirements.
7. Obtain drug information that will affect drug efficacy.
8. Utilize color and size to assist with medication recognition.
9. List the common prototypes and related information about:
   Antibacterial agents
   Antiviral agents
   Antineoplastics
10. Describe the use of immunopharmacology.
11. Identify look-alike and sound-alike medications.

C. Unit III. Drugs Affecting the Nervous System

1. Differentiate between brand and generic medications.
2. Identify available dosage forms and doses of medications.
3. Recognize appropriate dosage ranges.
4. Recognize drug indications.
5. Identify compatibility and interactions.
6. Identify storage requirements.
7. Obtain drug information that will affect drug efficacy.

8. Utilize color and size to assist with medication recognition.
9. Identify look-alike and sound-alike medications.
10. List the common prototypes and related information about:
    Autonomic Nervous System Agents
    Sympathetic Nervous System Agents
    Parasympathetic Nervous System Agents
    Skeletal Muscle Relaxants
    Local Anesthetics
    Sedative – Hypnotic Agents
    Psychiatric Agents
    Anticonvulsant Agents
    Analgesics (narcotic and non-narcotic)
    Anti-Inflammatory Agents

D. Unit IV. Cardiovascular and Renal Medications

1. Differentiate between brand and generic medications.
2. Identify available dosage forms and doses of medications.
3. Recognize appropriate dosage ranges.
4. Recognize drug indications.
5. Identify compatibility and interactions.
6. Identify storage requirements.
7. Obtain drug information that will affect drug efficacy.
8. Utilize color and size to assist with medication recognition.
9. Identify look-alike and sound-alike medications.
10. List the common prototypes and related information about:
    Cardiac Glycosides
    AntiArrythmics Agents
    AntiAnginal Agents
    Diuretics
    Antihypertensive Agents
    Anticoagulants/Coagulants
    Hypolipidemic Agents
    Antiemetic Agents

E. Unit V. Respiratory and GI Medications

1. Differentiate between brand and generic medications.
2. Identify available dosage forms and doses of medications.
3. Recognize appropriate dosage ranges.
4. Recognize drug indications.
5. Identify compatibility and interactions.
6. Identify storage requirements.
7. Obtain drug information that will affect drug efficacy.
8. Utilize color and size to assist with medication recognition.
9. Identify look-alike and sound-alike medications
10. List the common prototypes and related information about the following:
    Antiallergenic/Antihistaminic Agents
    Bronchodilator Agents
    Antisecretory Agents
    Antacids
    Antidiarrheals
    Laxatives / Cathartics

F. Unit VI. Endocrine Medications

1. Differentiate between brand and generic medications.
2. Identify available dosage forms and doses of medications.
3. Recognize appropriate dosage ranges.

4. Recognize drug indications.
5. Identify compatibility and interactions.
6. Identify storage requirements.
7. Obtain drug information that will affect drug efficacy.
8. Utilize color and size to assist with medication recognition.
9. Identify look-alike and sound-alike medications.
10. List the common prototypes and related information about:
    Adrenal Steroids
    Oral Contraceptives
    Thyroid Regulating Agents
    Antidiabetic Agents

III. THECB Learning Outcomes (WECM)

1. Categorize the major therapeutic classifications of drugs;
2. Differentiate the generic and trade names of drugs;
3. Describe the therapeutic use of drugs;
4. Recognize appropriate dosing intervals for drugs, in consideration of side effects, toxicity, incompatibility and interactions.

IV. Evaluation

A. Pre-assessment : none at this time

B. Assignments
   1. Unit Assignments are designed to supplement lecture. Activities will be graded on a scale determined by the Instructor Syllabus. Please refer to the calendar for specific due dates.
   2. **Assignments are due at the beginning of class unless otherwise instructed. It is the student's responsibility to complete assignments as outlined in this syllabus.**

C. Written unit exams will consist of the following question types: multiple-choice, completion, essay, matching, spelling, analysis, drawing and definition or any combination of these. The number and type of exams will be at the discretion of the instructor.
Written projects will be devised and assigned throughout the semester at the instructor's discretion.
A comprehensive final exam will be administered at the end of the course

D. Grading Scale:

Average Grade	Letter Grade
91-100%	A
82-90.9%	B
75-80.9%	C
67-74.9	D
<67%	F

*A grade of "D" or "F" will need to be repeated for all Health Careers and Technology Classes in order to graduate.

E. Remediation

At the instructor's discretion, students may be allowed to rewrite papers or retest for

higher grades. Students requiring additional help may be referred to tutoring services.

V. Disability Statement (American with/Disabilities Act [ADA])

EPCC offers a variety of services to persons with documented sensory, mental, physical, or temporary disabling conditions to promote success in classes. If you have a disability and believe you may need services, you are encouraged to contact the Center for Students with Disabilities to discuss your needs with a counselor. All discussions and documentation are kept confidential. Offices located: VV Rm C-112 (831-2426); TM Rm 1400 (831-5808); RG Rm B-201 (831-4198); NWC Rm M-54 (831-8815); and MDP Rm A-125 (831-7024).

VI. 6 Drop Rule

Students who began attending Texas public institutions of higher education for the first time during the Fall 2007 semester or later are subject to a 6-Drop limit for all undergraduate classes. Developmental, ESL, Dual Credit and Early College High School classes are exempt from this rule. All students should consult with their instructor before dropping a class. Academic assistance is available. Students are encouraged to see Counseling Services if dropping because exemptions may apply. Refer to the EPCC catalog and website for additional information.