PHARM 156 Course Outline as of Fall 2010

CATALOG INFORMATION

Dept and Nbr: PHARM 156 Title: DISPENSING & COMPOUNDING
Full Title: Dispensing and Compounding
Last Reviewed: 12/10/2018

Units		Course Hours per Week		Nbr of Weeks	Course Hours Total	
Maximum	3.00	Lecture Scheduled	3.00	17.5	Lecture Scheduled	52.50
Minimum	3.00	Lab Scheduled	0	17.5	Lab Scheduled	0
		Contact DHR	0		Contact DHR	0
		Contact Total	3.00		Contact Total	52.50
		Non-contact DHR	0		Non-contact DHR	0

Total Out of Class Hours: 105.00 Total Student Learning Hours: 157.50

Title 5 Category:	AA Degree Applicable
Grading:	Grade Only
Repeatability:	00 - Two Repeats if Grade was D, F, NC, or NP
Also Listed As:	
Formerly:	

Catalog Description:
General preparation of topical, transdermal, rectal, opthalmic, nasal, oral and otic pharmaceutical dosage forms. Practical experience in the manipulative and record keeping functions associated with the compounding and dispensing of prescriptions. Study of dosage forms, advantages and disadvantages, uses, storage and packing of pharmaceutical products.

Prerequisites/Corequisites:
Course Completion of PHARM 150

Recommended Preparation:

Limits on Enrollment:

Schedule of Classes Information:
Description: General preparation of topical, transdermal, rectal, opthalmic, nasal, oral and otic pharmaceutical dosage forms. Practical experience in the manipulative and record keeping functions associated with the compounding and dispensing of prescriptions. Study of dosage forms, advantages and disadvantages, uses, storage and packing of pharmaceutical products. (Grade Only)

Prerequisites/Corequisites: Course Completion of PHARM 150
Recommended:
Limits on Enrollment:
Transfer Credit:
Repeatability: Two Repeats if Grade was D, F, NC, or NP

ARTICULATION, MAJOR, and CERTIFICATION INFORMATION:

AS Degree:	**Area**	Effective:	Inactive:
CSU GE:	**Transfer Area**	Effective:	Inactive:
IGETC:	**Transfer Area**	Effective:	Inactive:

CSU Transfer:	Effective:	Inactive:
UC Transfer:	Effective:	Inactive:

CID:

Certificate/Major Applicable:
Both Certificate and Major Applicable

COURSE CONTENT

Outcomes and Objectives:
Upon successful completion of this course, the student will be able to:
1. Accurately use the metric, apothecary, avoirdupois and household systems to count and measure.
2. Compare and contrast the advantages and disadvantages of various topical, transdermal, rectal, opthalmic, nasal, oral, and otic dosage forms.
3. Recognize specific uses for various topical, transdermal, rectal, opthalmic, nasal, oral, and otic dosage forms.
4. Determine the different storage requirements and safety considerations of various classifications of pharmaceuticals.
5. Select proper containers for packaging of pharmaceutical preparations.
6. Describe proper compounding, labeling, and documentation for topical, transdermal, rectal, opthalmic, nasal, oral, and otic dosage forms.

Topics and Scope:

I. Review of common pharmaceutical measuring systems and equipment
II. Topical dosage forms
  A. Factors affecting absorption
  B. Definition and terminology
    1. Uses
    2. Solutions
    3. Lotions
    4. Creams
    5. Ointments
    6. Pastes
    7. Liniments

8. Tinctures
9. Collodions
10. Aerosols
11. Inhalants
12. Sprays
13. Powders
14. Demonstration: Extemporaneous compounding and packaging of solutions, lotions, creams, ointments, pastes, and powders
15. Transdermal drug delivery systems
a) Designs
b) Use

III. Rectal dosage forms
A. Local vs. systemic use
B. Ointments & Creams
C. Lotions
D. Suppositories
E. Demonstration: Extemporaneous compounding and packaging of pharmaceuticals administered by suppository

IV. Ophthalmic dosage forms
A. Sterile preparation
B. Solutions
C. Suspensions
D. Semi-solids
E. Storage

V. Otic dosage forms
A. Preparation
B. Uses

VI. Practical dispensing
A. Patient profile
B. Product identification
C. Label
D. Auxiliary labels
E. Packaging and containers

VII. Storage requirements and safety considerations

VIII. Drug classification
A. Generic names
B. Trade names
C. Common therapeutic uses
D. Usual doses

Assignment:

1. Read 10-15 pages a per week
2. Answer critical thinking questions at the end of each chapter
3. Written patient projects (8)
4. Two tests and a final exam

Methods of Evaluation/Basis of Grade:

Writing: Assessment tools that demonstrate writing skills and/or require students to select, organize and explain ideas in writing.

Written homework, written patient projects	Writing 30 - 40%

Problem Solving: Assessment tools, other than exams, that demonstrate competence in computational or non-computational problem solving skills.

None	Problem solving 0 - 0%

Skill Demonstrations: All skill-based and physical demonstrations used for assessment purposes including skill performance exams.

None	Skill Demonstrations 0 - 0%

Exams: All forms of formal testing, other than skill performance exams.

Multiple choice	Exams 55 - 65%

Other: Includes any assessment tools that do not logically fit into the above categories.

Attendance and participation	Other Category 5 - 10%

Representative Textbooks and Materials:
The Pharmacy Technician, 3rd ed. Morton Publishing, 2007.
Davis's Drug Guide for Nurses, 2008, 11th ed., F.A. Davis Company, Philadelphia, PA