

**Note:**

**Course content may be changed, term to term, without notice. The information below is provided as a guide for course selection and is not binding in any form, and should not be used to purchase course materials.**

## ***COURSE SYLLABUS***

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### **INFO 310**

### **FOUNDATIONS OF PHARMACOLOGY**

#### **COURSE DESCRIPTION**

Foundational review of the relationship between pharmacologic and pharmacokinetic knowledge; safe administration of medication; emphasis on the reasoning behind selection of route, dosage, and dosing schedules of medications provided to patients across their lifespan; legal and professional issues surrounding the safe administration of medication.

#### **RATIONALE**

The student will be able to demonstrate an understanding of the terms, concepts, and processes in medication administration and pharmacology terminology upon completion. Application and knowledge of the drugs, side effects, adverse effects, and management will be critical areas of administration and teaching areas within healthcare delivery.

#### **I. PREREQUISITE**

For information regarding prerequisites for this course, please refer to the Academic Course Catalog.

#### **II. REQUIRED RESOURCE PURCHASE**

Click on the following link to view the required resource(s) for the term in which you are registered: <http://bookstore.mbsdirect.net/liberty.htm>

#### **III. ADDITIONAL MATERIALS FOR LEARNING**

- A. Computer with basic audio/video output equipment
- B. Internet access (broadband recommended)
- C. Blackboard [recommended browsers](#)
- D. Microsoft Office

#### **IV. MEASURABLE LEARNING OUTCOMES**

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

- A. Integrate a biblical worldview within informatics.
- B. Define terms, concepts, and basic processes associated with physiologic effects of medication therapy.
- C. List basic physiologic processes involved with absorption and elimination of medications.

- D. Describe characteristics of major groups and selected individual medications in terms of the following: mechanism(s) of action; drug effects; therapeutic uses; side effects and adverse effects; toxicity and management of overdoses; interactions; and responsibilities related to administration, monitoring, and teaching.

**V. COURSE REQUIREMENTS AND ASSIGNMENTS**

- A. Textbook readings and lecture presentations

- B. Course Requirements Checklist

After reading the Course Syllabus and [Student Expectations](#), the student will complete the related checklist found in Module/Week 1.

- C. Discussion Board Forums (3)

Discussion boards are collaborative learning experiences. Therefore, the student is required to create a thread in response to the provided prompt for each forum. The threads and replies will be broken up over 2 modules/weeks, with the thread in the first module/week and the reply in the following. Each thread must be at least 400 words, demonstrate course-related knowledge, and include at least 2 scholarly references. In addition to the thread, the student is required to reply to 2 other classmates' threads and also to respond to any classmates who reply to him/her. Each reply must be at least 300 words and contain at least 2 scholarly references.

- D. Pharmacology Development and Stages

The student will write a 1,000-word research-based paper in current APA format that focuses on the development and stages of pharmacology. The paper must include at least 5 references in addition to the course textbooks and the Bible.

- E. Medications within the Stages

The student will write a 1,000-word research-based paper in current APA format that focuses on the stages within medications. In addition, the paper must include an example table that will provide a minimum of 10 medications learned through Modules/Weeks 1–4. The paper must include at least 5 scholarly references in addition to the course textbooks and the Bible.

- F. Explorations of New Medications

The student will write a 1,000-word research-based paper in current APA format that focuses on the exploration of new medications. The paper must include at least 5 scholarly references in addition to the course textbooks and the Bible.

- G. Principles of Medication Therapy

The student will write a 1,500-word research-based paper in current APA format that focuses on the principles of medication therapy. The paper must include at least 8 scholarly references in addition to the course textbooks and the Bible.

## H. Quizzes (5)

The student will complete 5 quizzes in this course. Each quiz will cover the Reading & Study material for the assigned modules/weeks. Each quiz will be open-book/open-notes, contain 20 multiple-choice questions, and have a 30-minute time limit.

## VI. COURSE GRADING AND POLICIES

## A. Points

Course Requirements Checklist	10
Discussion Board Forums	
Threads (3 at 40 pts ea)	120
Replies (3 at 35 pts ea)	105
Pharmacology Development and Stages	100
Medications within the Stages	100
Explorations of New Medications	125
Principles of Medication Therapy	200
Quizzes (Modules 2–4, 6, and 8)	250
<b>Total</b>	<b>1010</b>

## B. Scale

A = 900–1010 B = 800–899 C = 700–799 D = 600–699 F = 0–599

## C. Disability Assistance

Students with a documented disability may contact Liberty University Online's Office of Disability Academic Support (ODAS) at [LUOODAS@liberty.edu](mailto:LUOODAS@liberty.edu) to make arrangements for academic accommodations. Further information can be found at [www.liberty.edu/disabilitysupport](http://www.liberty.edu/disabilitysupport).

## ***COURSE SCHEDULE***

### **INFO 310**

Textbook: Brenner & Stevens, *Pharmacology* (2013).

<b>MODULE/ WEEK</b>	<b>READING &amp; STUDY</b>	<b>ASSIGNMENTS</b>	<b>POINTS</b>
<b>1</b>	Brenner & Stevens: chs. 1–2 1 presentation	Course Requirements Checklist Class Introductions DB Forum 1 Thread	10 0 40
<b>2</b>	Brenner & Stevens: chs. 3–4 1 presentation	DB Forum 1 Replies Quiz 1	35 50
<b>3</b>	Brenner & Stevens: chs. 5–9 1 presentation	Pharmacology Development and Stages Quiz 2	100 50
<b>4</b>	Brenner & Stevens: chs. 10–17 1 presentation	DB Forum 2 Thread Quiz 3	40 50
<b>5</b>	Brenner & Stevens: chs. 18–25 1 presentation	DB Forum 2 Replies Medications within the Stages	35 100
<b>6</b>	Brenner & Stevens: chs. 26–30 1 presentation	Explorations of New Medications Quiz 4	125 50
<b>7</b>	Brenner & Stevens: chs. 31–36 1 presentation	DB Forum 3 Thread Quiz 5	40 50
<b>8</b>	Brenner & Stevens: chs. 37–45 1 presentation	DB Forum 3 Replies Principles of Medication Therapy	35 200
<b>TOTAL</b>			<b>1010</b>

DB = Discussion Board

**NOTE:** Each course module/week (except Module/Week 1) begins on Tuesday morning at 12:00 a.m. (ET) and ends on Monday night at 11:59 p.m. (ET). The final module/week ends at 11:59 p.m. (ET) on **Friday**.