

Pharmacology (HITT 1249) Online



Credit: 2 semester credit hours (2 hours lecture)

Prerequisite/Co-requisite: BIOL 2301 & BIOL 2302; Complete the Online Orientation and answer yes to 7+ questions on the Online Learner Self-Assessment: <http://www.lit.edu/depts/DistanceEd/OnlineOrientation/OOStep2.aspx>

Course Description

This course provides an overview of the basic concepts of the pharmacological treatment for various diseases affecting major body systems. *This course is time-bound, structured, and completed totally online with a proctored final in a certified testing center.*

Required Textbook and Materials

1. *Understanding Pharmacology for Health Professionals* by S. Turley, 4th edition. Pearson Publishing
 - a. ISBN: 978-0-13-514570-8
2. Computer with internet access
3. Blackboard access code (if needed)

Course Objectives

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

1. Identify the drugs associated with the treatment process. (C5, C6, C7, C8, F1, F2, F5, F6, F7, F8, F10, F11, F12, F13, F14, F16)
2. Examine drug therapy, dosages, actions and drug administration routes. (C5, C6, C7, C8, F1, F2, F5, F6, F7, F8, F10, F11, F12, F13, F14, F16)

SCANS Skills and Competencies

Beginning in the late 1980's, the U.S. Department of Labor Secretary's Commission on Achieving Necessary Skills (SCANS) conducted extensive research and interviews with business owners, union leaders, supervisors, and laborers in a wide variety of work settings to determine what knowledge workers needed in order to perform well on a job. In 1991 the Commission announced its findings in *What Work Requires in Schools*. In its research, the Commission determined that "workplace know-how" consists of two elements: foundation skills and workplace competencies.

Course Outline

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| A. The Past History, Present Uses and Future of Drugs <ol style="list-style-type: none">1. Introduction to Pharmacology2. Drug Design, Testing, Manufacturing, and Marketing3. Drug Forms | <ol style="list-style-type: none">4. Routes of Administration and Drug Cycle5. Using Drugs Therapeutically6. The Prescription B. Drugs by Body Systems <ol style="list-style-type: none">1. Urinary Drugs2. Gastrointestinal Drugs |
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Course Syllabi

3. Musculoskeletal Drugs
 4. Pulmonary Drugs
 5. Cardiovascular Drugs
 6. Hematologic Drugs
 7. Gynecologic and Obstetric Drugs
 8. Endocrine Drugs
 9. Neurologic Drugs
 10. Neurologic Drugs
 11. Psychiatric Drugs
 12. Dermatologic Drugs
 13. Ophthalmic Drugs
 14. Ears, Nose, and Throat Drugs
- C. Other Drug Categories
1. Anti-Infective Drugs
 2. Chemotherapy Drugs
 3. Analgesic Drugs
 4. Anesthetic Drugs
 5. Emergency Drugs, Intravenous Fluids, Blood Products
 6. Geriatric Care

Grade Scale

90 - 100	A
80 - 89	B
70 - 79	C
60 - 69	D
0 - 59	F

Course Evaluation

Final grades will be calculated according to the following criteria:

Daily Assignments/Quizzes	30%
Participation/Discussions	20%
Unit Exams	35%
Final Exam (Proctored)*	15%

*The student will be required to take the comprehensive final in a proctored environment.

Course Requirements

1. Students can complete this course without physically visiting the institution offering the course.
2. The student will post discussions as instructed along with any other assignments instructed to complete.
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4. The student will complete online quizzes and unit exams by the due dates shown on the course calendar.
5. The student will be required to take the final exam in a proctored environment. If you live within 60 miles from campus, please plan to take the proctored exam within the LIT ACT Testing Center located in T1 Building. Learners from a distance may make alternative arrangements. Acceptable proctors include: Elementary or secondary school superintendent, principal, or guidance counselor; Certified Librarian at a public library; Officer at a Testing Center; Human Resources Manager; or Education Coordinator.

Course Policies

1. Students must provide their own textbooks, writing instruments, and other necessary supplies for classes.
2. Students must log onto Blackboard and access this course a minimum of three times per week.
3. Students must respect one another and all faculty.
4. Internet Usage – Students are expected to use proper net etiquette while participating in course emails, assignment submissions, and online discussions.
5. Cheating of any kind will not be tolerated. This includes plagiarism from any media form or from a classmate. If you are found to have plagiarized you will be dropped from the course immediately.
6. You may not access the Internet, any assignments, notes or your text book while taking an exam. All cell phones, iPods and any other instruments that would allow you Internet access must be out of reach while taking an exam.
7. All exams will be taken on the scheduled dates. There will be **NO MAKE UP EXAMS**.
8. If you miss an exam, the final exam minus 20 points will count as the missed exam grade. You will receive a zero on any subsequent exams that you do not take at the designated time.
9. Exams are not open book. You are expected to know the material covering the exam and not utilize any material during the exam unless otherwise instructed.
10. All assignments are due when stated. **Late assignments are not accepted.**
11. If you are experiencing any computer issues, email your instructor immediately and contact the LIT Technical Services Department at 409-839-2074.
12. Additional course policies are outlined in “Classroom Policies” provided at the beginning of the semester.
13. Students are expected to follow the Lamar Institute of Technology Code of Conduct and Disciplinary Policy
14. If you wish to drop a course, the student is responsible for initiating and dropping the course. If you stop logging-in to the course and do not complete the course drop process, then you will receive an “F” grade for the course.
15. The instructor will respond to e-mail and voice mail communication within 48 hours Monday through Friday. Assignment grades will be published within 2 weeks of the assignment due date.

Technical Requirements

The latest technical requirements, including hardware, compatible browsers, operating systems, software, Java, etc. can be found online at:

<http://kb.blackboard.com/pages/viewpage.action?pageId=25368512>

A functional internet connection, such as DSL, cable, or WiFi is necessary to maximize the use of the online technology and resources.

Disabilities Statement

The Americans with Disabilities Act of 1992 and Section 504 of the Rehabilitation Act of 1973 are federal anti-discrimination statutes that provide comprehensive civil rights for persons with disabilities. Among other things, these statutes require that all students with documented disabilities be guaranteed a learning environment that provides for reasonable accommodations for their disabilities. If you believe you have a disability requiring an accommodation, please contact the Special Populations Coordinator at (409) 880-1737 or visit the online resource:

<http://www.lit.edu/depts/stuserv/special/defaults.aspx>

Course Schedule:

Week	Topic	Textbook Reference
Week 1	<ul style="list-style-type: none"> • Introduction / Orientation • Chapter 1 - Introduction to Pharmacology and the History of Drugs • Chapter 2 - Drug Design, Testing, Manufacturing, and Marketing 	Online Learning Modules: <ul style="list-style-type: none"> • Orientation • Unit 1, Chapter 1 • Unit 2, Chapter 2 Text Book: p. 1 - 34
Week 2	<ul style="list-style-type: none"> • Chapter 3 – Drug Forms • Chapter 4 - Routes of Administration 	Online Learning Modules: <ul style="list-style-type: none"> • Unit 1, Chapter 3 • Unit 1, Chapter 4 Text Book: p. 35 - 63
Week 3	<ul style="list-style-type: none"> • Chapter 5 - Using Drug Therapeutically • Chapter 6 - The Prescription 	Online Learning Modules: <ul style="list-style-type: none"> • Unit 1, Chapter 5 • Unit 1, Chapter 6 Text Book: p. 64 - 96
Week 4	Unit 1 Test (Chapters 1 – 6)	Unit 1 Learning Modules
	Chapter 7 - Urinary Drugs	Text Book: p. 1 - 96 Online Learning Module: Unit 2, Chapter 7 Text Book: p. 98-112
Week 5	<ul style="list-style-type: none"> • Chapter 8 - Gastrointestinal Drugs • Chapter 9 - Musculoskeletal Drugs 	Online Learning Modules: <ul style="list-style-type: none"> • Unit 2, Chapter 8 • Unit 2, Chapter 8 Text Book: p. 113 – 151
Week 6	<ul style="list-style-type: none"> • Chapter 10 - Pulmonary Drugs • Chapter 11 - Cardiovascular Drugs 	Online Learning Modules: <ul style="list-style-type: none"> • Unit 2, Chapter 10 • Unit 2, Chapter 11 Text Book: p. 152 – 194
Week 7	Chapter 12 - Hematologic Drugs	Online Learning Modules: Unit 2, Chapter 12 Text Book: p. 195 – 206
	Unit 2 Test (Chapters 7 – 12)	Unit 2 Learning Modules
		Text Book: p. 98 - 206
Week 8	<ul style="list-style-type: none"> • Chapter 13 - Gynecologic and Obstetric Drugs • Chapter 14 - Endocrine Drugs 	Online Learning Modules: <ul style="list-style-type: none"> • Unit 3, Chapter 13 • Unit 3, Chapter 14 Text Book: p. 207 – 248

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Week 9	Chapter 15 - Neurologic Drugs Chapter 16 - Psychiatric Drugs	Online Learning Modules: <ul style="list-style-type: none"> Unit 3, Chapter 15 Unit 3, Chapter 16 Text Book: p. 249 – 291
Week 10	Chapter 17 - Dermatologic Drugs Chapter 18 - Ophthalmic Drugs	Online Learning Modules: <ul style="list-style-type: none"> Unit 3, Chapter 17 Unit 3, Chapter 18 Text Book: p. 292 – 330
Week 11	Chapter 19 - Ear, Nose and Throat Drugs	Online Learning Modules: Unit 3, Chapter 19 Text Book: p. 331 – 344
Unit 3 Test (Chapters 13 – 19)		Unit 3 Learning Modules Text Book: p. 207 - 344
Week 12	<ul style="list-style-type: none"> Chapter 20 - Anti-infective Drugs 	Online Learning Modules: Unit 4, Chapter 20 Text Book: p. 346 – 372
Week 13	<ul style="list-style-type: none"> Chapter 21 - Chemotherapy Drugs 	Online Learning Modules: Unit 4, Chapter 21 Text Book: p. 373 – 401
Week 14	<ul style="list-style-type: none"> Chapter 22 - Analgesic Drugs Chapter 23 - Anesthetic Drugs 	<ul style="list-style-type: none"> Online Learning Modules: Unit 4, Chapter 22 Unit 4, Chapter 23 Text Book: p. 402 – 433
Week 15	<ul style="list-style-type: none"> Chapter 24 - Emergency Drugs, IV Fluids, and Blood Products 	Online Learning Modules: Unit 4, Chapter 24 Text Book: p. 434 – 451
Test 4 (Chapters 20 – 24)		Unit 4 Learning Modules Text Book: p. 346 - 451
Week 16	<ul style="list-style-type: none"> Final Exam (Chapters 1 – 24) 	Online Final Exams Student Guide Online Learning Modules

Contact Information: (varies by instructor)