

GRAYSON COLLEGE

Course Syllabus

Course Information

Pharmacology for Health Professionals
HPRS 2300

Type of Course/Delivery Mode/Testing Requirements

Internet course, No proctors required for testing

Professor Contact Information

Lori Hoover, R.N., M.S.
6101 Grayson Drive
Denison, Texas 75020

Feel free to contact me via email or phone with any questions or concerns. My office is located in the Health Sciences Building on the West side of the Main Campus.

Office Location: Health Science Bldg.---Office-102 (Not on campus during summer)

(Office) 903-415-2534

hooverl@grayson.edu

Office Hours: **Please make an appointment. We can meet virtually or in my office.**

Course Pre-requisites, Co-requisites, and/or Other Restrictions

None.

This course should only be considered transferable as an elective.

Course Description

This 3-credit course is an intermediate level course for students preparing for a career in healthcare and healthcare professionals involved in the care of clients. This course is designed to allow students to categorize the classification of drugs, identify therapeutic uses, pharmacokinetics, pharmacodynamics, side effects and adverse reactions of various drugs, and perform basic dosage calculations.

Topics include the principles of pharmacology, autonomic nervous system agents, neurologic and neuromuscular agents, anti-inflammatory and pain management agents, psychiatric agents,

antibacterial agents, antiinfective agents, immunologic agents, antineoplastic agents, respiratory agents, cardiovascular agents, gastrointestinal agents, endocrine agents and basic dosage calculations.

Student Learning Outcomes

Describe and differentiate the uses, pharmacodynamics, side effects, adverse reactions, and client teaching for various drug classifications.

The course objectives are based on the idea of “putting knowledge to work.” A sound knowledge base in pathophysiology concepts and disease processes is incorporated with the Workplace Competencies and Foundation Skills identified as essential for good job performance by the Secretary’s Commission on Achieving Necessary Skills (SCANS).

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

1. Allocate his/her time through independent completion of unit objectives and assignments.
 - a. SCANS skills: 1a, 6a,b, 7a-f, 8a-e
 2. Organize and maintain information through completion of unit objectives and preparation for exams.
 - a. SCANS skills: 3b, 6a,b, 7a-f, 8a-e
 3. Interpret and communicate information through research and presentation of Discussion Questions.
 - a. SCANS skills: 3c, 6a,b, 7a-f, 8a-e
 4. Engage in independent research on selected Discussion Questions.
 - a. SCANS skills: 3a,d, 6a,b, 7a-f, 8a-e
 5. Use computers to process information through completion of Unit Objectives and preparation for exams.
 - a. SCANS skills: 3d, 6a,b, 7a-f, 8a-e
 6. Demonstrate self-management by maintaining a schedule, which will enable the student to complete the course requirements in a timely manner.
 - a. SCANS skills: 8d, 6a,b, 7a-f, 8a-e
 7. Demonstrate integrity and honesty through ethical communication, test-taking and submission of work.
 - a. SCANS skills: 8e, 6a,b, 7a-f, 8a-e
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Required Textbooks (ISBN # included) and Materials

McCuiston, Vuljoin-DiMaggio, Winton & Yeager. "Pharmacology A Patient-Centered Nursing Process Approach" 9th Edition, published by Saunders Elsevier. This text may be purchased in the GC Bookstore. ISBN: 978-0-323-39916-6

Suggested Course Materials:

See canvas learning activities under each unit module

Outline of Topics Covered

Drug Development and Ethical Considerations (chapter 1)
Pharmacokinetics, Pharmacodynamics, Pharmacogenetics (chapter 2)
Complementary and Alternative Therapies (chapter 4)
Drugs in Substance Use Disorder (chapter 7)
Adrenergic Agonists and Antagonists (chapter 15)
Cholinergic Agonists and Antagonists (chapter 16)
Antiseizure Drugs (chapter 19)
Drugs for Parkinsons and Alzheimers Disease (chapter 20)
Drugs for Neuromuscular Disorders and Muscle Spasms (chapter 21)
Antiinflammatories (chapter 24)
Analgesics (chapter 25)
Antibacterials (chapter 26)
Antituberculars, Antifungals, Antivirals (chapter 27)
Antimalarials, Anthelmintics, Peptides (chapter 28)
Antipsychotics and Anxiolytics (chapter 22)
Antidepressants and Mood Stabilizers (chapter 23)
Stimulants (chapter 17)
Depressants (chapter 18)
HIV and AIDS related Drugs (chapter 29)
Vaccines (chapter 31)
Anticancer Drugs (chapter 32)
Targeted Therapies to treat Cancer (chapter 33)
Upper Respiratory Disorders (chapter 35)
Lower Respiratory Disorders (chapter 36)
GI Tract Disorders (chapter 42)
Antiulcer Drugs (chapter 43)
Cardiac Glycosides, Antianginals, and Antidysrhythmics (chapter 37)
Diuretics (chapter 38)
Antihypertensives (chapter 39)
Anticoagulants, Antiplatelets, and Thrombolytics (chapter 40)
Antihyperlipidemics and Drugs that improve peripheral blood flow (chapter 41)
Drug Calculations (chapter 11)
Antidiabetics (chapter 47)

In case of inclement weather, emergency closings, or other unforeseen disruptions to scheduled classes, student must log onto their Canvas accounts for directions on where or how to continue their coursework.

See Calendar

Will be posted in Canvas

Methods of Evaluation

Each unit of study will be defined as to the key terms, concepts & learning objectives. Since this is an Internet course, emphasis is placed on active, independent learning by the student. Students must assume responsibility for the completion of learning objectives in a timely manner. There will be an assignment due each week. **Late work will be taken with the instructor's permission for half credit.**

Guided learning is provided by the instructor by means of:

1. Online discussion questions.
2. Feedback regarding tests.
3. Case Study evaluations.
4. Review and feedback on Web based activities.
5. General guidance and support during the course of study.

Grading

Categories	Percentage
Online Tests	50%
Discussion Questions	37.5%
Case Studies	12.5%

There will be a total of 7 online test grades. Six will be 10 questions worth 10 points each, one will be 20 questions worth 20 points.

There will be a total of 6 discussion questions. Each one will be worth 10 points.

There will be a total of 2 case studies. Each will be worth 10 points.

Total amount points possible: 160

144-160 A

128-143 B

112-127 C

96-111 D

➤ 96 F

Grades will be posted online within the Canvas grade book.

Grading Rubrics will be used for discussion questions (see bottom)

Methods of Instruction

Communication between the instructor and students will primarily be through the course site in GC Canvas. Frequent announcements, comments in the course discussions, responses to email, as well as feedback on homework assignments will be provided regularly. Students will primarily communicate with one another through the course discussions tool. In addition, students have the option to use Canvas email.

In an online course, regular routine participation is extremely important. Online participation is assessed through a variety of methods including timely submission of assignments as well as logging in and checking the course site regularly. In addition, active participation in the course discussions is required. Generally, you should plan to check the course site, review new course materials, and participate in the discussions, 3 to 4 times per week.

Students are expected to have a basic understanding of personal computers, internet browsing, desktop applications such as Microsoft Word, and file management (uploading, downloading, or sending files). You will need to have an up-to-date browser, operating system and some additional software on your computer to take this class.

If you do not have access to a computer off campus, there are many computer labs on campus you can use to participate in the course. Most public libraries also have computers with internet access that you can use for free.

Students needing assistance with accessing instructional technology should contact the GC Help Desk. For more information, visit www.grayson.edu and select the Help Desk link.

*Please do not wait until the last minute to submit assignments! Allow enough time before the due date and time to submit your assignments. Should there be a technical problem, immediately notify the instructor via external email or internal Canvas mail. Alternative arrangements, if permitted, will be discussed at that time. **Please see the weekly Calendar Plan for due dates and times. Initial posts for Discussion Questions are due on Thursdays and final responses to 2 other students are due on Sunday nights.***

Course & Instructor Policies

Class Attendance

Academic success is closely associated with regular classroom attendance and course participation. All successful students, whether on campus or online, are expected to be highly self-motivated. All students are required to participate in courses regularly and are obliged to participate in class activities and complete and submit assignments following their professors' instructions. Students taking courses during compressed semester time frames such as mini-semester, summer sessions, and mid-semester should plan to spend significantly more time per week on the course. Responsibility for work missed because of illness or school business is placed upon the student. **In accordance with the College's Developmental Education Plan, students withdrawn from their only developmental course may be withdrawn from all academic courses.** In addition, students' eligibility to receive financial aid or live in a College dormitory can be affected by withdrawal from courses. When administrative withdrawal occurs, any tuition refund would be made in accordance with state regulations.

Student Conduct & Discipline

Students are expected to adhere to proper netiquette and treat each other with dignity and respect. For more information on netiquette, please visit <http://www.albion.com/netiquette/>.

Academic Integrity

The faculty expects from its students a high level of responsibility and academic honesty. Because the value of an academic degree depends upon the absolute integrity of the work done by the student for that degree, it is imperative that a student demonstrate a high standard of individual honor in his or her scholastic work.

Scholastic Dishonesty, any student who commits an act of scholastic dishonesty is subject to discipline. Scholastic dishonesty includes but is not limited to cheating, plagiarism, collusion, the submission for credit of any work or materials that are attributable in whole or in part to another person, taking an examination for another person, any act designed to give unfair advantage to a student or the attempt to commit such acts.

Plagiarism, especially from the web, from portions of papers for other classes, and from any other source is unacceptable and will be dealt with under the college's policy on plagiarism (see GC Student Handbook for details). Grayson College subscribes to turnitin.com, which allows faculty to search the web and identify plagiarized material.

Copyright Notice

The copyright law of the United States (Title 17, United States Code) governs the making of photocopies or other reproductions of copyrighted materials, including music and software. Copying, displaying, reproducing, or distributing copyrighted works may infringe the copyright owner's rights and such infringement is subject to appropriate disciplinary action as well as criminal penalties provided by federal law. Usage of such material is only appropriate when that usage constitutes "fair use" under the Copyright Act.

Withdrawal from Class

The administration of this institution has set deadlines for withdrawal from any college-level courses. These dates and times are published in that semester's schedule of classes. Administrative procedures must be followed. It is the student's responsibility to handle student initiated withdrawal requirements from any class. You must do the proper paperwork to ensure that you will not receive a final grade of "F" in a course if you choose not to attend the class once you are enrolled (see GC College Catalog for details).

Disability Services

The goal of Disability Services is to provide students with disabilities educational opportunities equal to those of their non-disabled peers. Disability Services is located in the Student Success Center.

The contact information for the Office of Disability Services is:
Jeffri Hodge

(903) 463-8751 (voice or TTY)
hodgej@grayso.edu

If you anticipate issues related to the format or requirements of this course, please meet with the Coordinator of Disability Services. The Coordinator is available to discuss ways to ensure your full participation in the course. If you determine that formal, disability-related accommodations are necessary, it is very important that you be registered with Disability Services to notify them of your eligibility for reasonable accommodations. Disability Services can then plan how best to coordinate your accommodations.

It is the student's responsibility to notify his or her professors of the need for such an accommodation. Disability Services provides students with letters to present to faculty members to verify that the student has a disability and needs accommodations. Individuals requiring special accommodation should contact the professor after class or during office hours.

Financial Aid

Effective July 1, 2000 students receiving Title IV funds (Pell, Federal Grants, and Student Loans), who subsequently withdraw from classes, will be required to return a portion of the federal financial aid received. Only the percentage of aid earned (determined by the percentage of time attended) will be eligible for retention on the student's behalf. Any aid that is not earned must be returned to its source. If there is a student account balance resulting from these adjustments, the student is responsible for payment. Further details can be obtained from the Office of Financial Aid.

Drop Rule

Under section 51.907 of the Texas Education Code, "an institution of higher education may not permit a student to drop more than six courses, including any course a transfer student has dropped at another institution of higher education." This statute was enacted by the State of Texas in spring 2007 and applies to students who enroll in a public institution of higher education as first-time freshmen in fall 2007 or later. Any course that a student drops is counted toward the six-course limit if (1) the student drops a course after census date or (2) the student is not dropping the course in order to withdraw from the institution. Some exemptions for good cause could allow a student to drop a course without having it counted toward this limit, but it is the responsibility of the student to establish that good cause before the drop. Students with questions should contact the Counseling Office or the Office of Admissions & Records for more information before dropping a course!

TITLE IX

GC policy prohibits discrimination on the basis of age, ancestry, color, disability, gender identity, genetic information, national origin, race, religion, retaliation, serious medical condition, sex, sexual orientation, spousal affiliation and protected veterans status. Furthermore, Title IX

prohibits sex discrimination to include sexual misconduct: sexual violence (sexual assault, rape), sexual harassment and retaliation.

For more information on Title IX, please contact:

Dr. Molly M. Harris, Title IX Coordinator 903.463-8714

Dr. Logan Maxwell, Title IX Deputy Coordinator 903.415.2601

Mr. Mike McBrayer, Title IX Deputy Coordinator 903.463.8753

GC Police Department: 903.463.8777 (Main Campus) 903.415.2501 (South Campus)

GC Counseling Center: 903.463.8695

For Any On-campus Emergencies: 911

Website: <http://www.grayson.edu/campus-life/campus-police/title-ix-policies.html>

Grayson College campus-wide student policies may be found on our Current Student Page on our website: <http://grayson.edu/current-students/index.html>

Grayson College is not responsible for illness/injury that occurs during the normal course of classroom/lab/clinical experiences.

These descriptions and timelines are subject to change at the discretion of the Professor.

Access to Internet Library Resources

To access peer reviewed journals including evidence-based practice required for assignments:

1. Go to grayson.edu website
2. Click on Library on the right upper part of page
3. Click on Virtual Resources
4. On the A-Z Database list - select Health Source: Nursing/Academic Edition/EBSCO
5. Limit Results to Full Text and Scholarly (Peer Reviewed) Journals
6. Type subject or keyword into Search Box
7. Articles should be no more than 5 years old
8. If you are prompted for a login/password – use your portal login/password

Continue to scroll down to see grading rubric for discussion questions.

Discussion Area	Excellent	Satisfactory	Unsatisfactory
Response to Main Discussion Questions/Initial Assignment Posting	3 pts – Includes: <ol style="list-style-type: none"> Posting is clear and concise. Well-developed ideas; introduces new ideas; stimulates discussion. Posts by Thursday. At least a paragraph (min 100 words) is written on each question. 	2 pts – Depends on: <ol style="list-style-type: none"> Posting is clear and concise. Developing ideas; sometimes stimulates discussion. Lacks full development of concepts. Answers to each question are less than 100 words or 1 paragraph 	0-1 pts – Depends on: <ol style="list-style-type: none"> Minimal response to discussion question. Does not answer at all.
Response to Others	3 pts – Includes: <ol style="list-style-type: none"> Response to at least two other students' questions. Student follows netiquette standards and uses appropriate grammar & spelling. Demonstrates analysis of others' posts; extends meaningful discussion by building on previous posts. 	2 pts – Depends on: <ol style="list-style-type: none"> Response to at least 1 (one) other students' questions. Posts shallow contribution to discussion (e.g., agrees or disagrees); does not enrich discussion. Student follows netiquette standards and may have some problems with grammar & spelling. 	0-1 pts – Depends on: <ol style="list-style-type: none"> Confusing comments, poorly developed ideas, which do not add to discussion. ("Nice work" or "I agree" don't count as a response) Two or more criteria not met. Does not respond at all.
Outside Resources	2 pts – Includes: <ol style="list-style-type: none"> Postings include reference to at least one professional journal, website or current news article related to the discussion. Student can upload article or add web link for others to access. Link/Reference must be current and from reliable professional source. The article/ website is discussed in the posting and relates to issues being discussed by the students. 	1 pts – Depends on: <ol style="list-style-type: none"> Postings include at least one professional journal, website or current news article related to the discussion. Student can upload article or add web link for others to access. Link/Reference must be current and from reliable professional source. 	0-1 pts – Depends on: <ol style="list-style-type: none"> Two or more criteria not met.
Discussion Participation	2 pts – Includes: <ol style="list-style-type: none"> Discussion posts are made by 1159 pm on the day/date assigned. The student participates in each discussion on <u>2 different days each week</u>. Interacts with instructor and at 	1 pts – Depends on: <ol style="list-style-type: none"> Discussion posts are made by 1159 pm on the day/date assigned. The student participates in each discussion <u>at least 1 day each week</u>. Interacts with instructor and at least 1 other students. 	0-1 pts – Depends on: <ol style="list-style-type: none"> Discussion posts consistently late. Minimal participation in discussion or does not answer at all.

	least 2 other students.		
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This rubric is to provide you with guidance as you interact with others in the discussion forums.