

Midland College
Syllabus
HPRS 2200 Pharmacology for Health Professionals (1-3-0)

General Course Information

Course Description

Fundamentals of medications and their diagnostic, therapeutic, and curative effects. This includes nursing interventions utilizing the nursing process. Instruction in basic and advanced dosage calculation will be included.

WECM End of Course Outcomes

Demonstrate the knowledge of the therapeutic action, side effects, contraindications, and apply the nursing process for the specific medications.

Student Learning Outcomes and Core Competencies

The following course student learning outcomes (SLO's) are based on the Differentiated Essential Competencies (DECs) identified by the Texas Board of Nursing for the nursing roles of Member of the Profession (MOP), Provider of Patient-Centered Care (PPCC), Patient Safety Advocate (PSA), and Member of the Health Care Team (MHCT). Upon successful completion of the course the student will:

1. Function within the nurse's legal scope of practice and in accordance with the policy and procedures to prepare and administer pharmacotherapeutic agents responsibly. (MOP-B)
2. Use clinical reasoning and evidence-based policies as the basis for decision making in preparing and administering pharmacotherapeutic agents. (PPCC-A)
3. Discuss the major therapeutic actions, common side effects, contraindications, nursing interventions, and evaluating effectiveness for assigned drug categories. (PPCC-B)
4. Identify appropriate care, teaching, and reportable alterations following administration of pharmacotherapeutic agents. (PSA-B)
5. Consider patient safety and needed instruction, training and supervision when needed for preparing and administering medications. (PSA-D)
6. Describe communication and collaboration with patients, their families, and the interdisciplinary health care team in a timely manner to assist in the planning, delivery, patient-centered care when administering medications. (MHCT-A)

Course Outline

PART 1: PHARMACOLOGY BASICS

1. The Nursing Process and Drug Therapy
2. Pharmacologic Principles
3. Lifespan Considerations
4. Cultural, Legal, and Ethical Considerations
5. Medication Errors: Preventing and Responding
6. Patient Education and Drug Therapy
7. Over-the-Counter Drugs and Herbal and Dietary Supplements
8. Gene Therapy and Pharmacogenomics
9. Photo Atlas of Drug Administration

PART 2: DRUGS AFFECTING THE CENTRAL NERVOUS SYSTEM

10. Analgesic Drugs
11. General and Local Anesthetics
12. Central Nervous System Depressants and Muscle Relaxants
13. Central Nervous System Stimulants and Related Drugs
14. Antiepileptic Drugs
15. Antiparkinson Drugs
16. Psychotherapeutic Drugs (Covered in VNSG 1301)
17. Substance Abuse (Covered in VNSG 1301)

PART 3: DRUGS AFFECTING THE AUTONOMIC NERVOUS SYSTEM

18. Adrenergic Drugs
19. Adrenergic-Blocking Drugs
20. Cholinergic Drugs
21. Cholinergic-Blocking Drugs

PART 4: DRUGS AFFECTING THE CARDIOVASCULAR AND RENAL SYSTEMS

22. Antihypertensive Drugs
23. Antianginal Drugs
24. Heart Failure Drugs
25. Antidysrhythmic Drugs
26. Coagulation Modifier Drugs
27. Antilipemic Drugs
28. Diuretic Drugs
29. Fluids and Electrolytes

PART 5: DRUGS AFFECTING THE ENDOCRINE AND REPRODUCTIVE

- 30. Pituitary Drugs
- 31. Thyroid and Antithyroid Drugs
- 32. Antidiabetic Drugs
- 33. Adrenal Drugs
- 34. Women's Health Drugs (Covered in VNSG 1230)
- 35. Men's Health Drugs (Covered in VNSG 1230)

PART 6: DRUGS AFFECTING THE RESPIRATORY SYSTEM

- 36. Antihistamines, Decongestants, Antitussives, and Expectorants
- 37. Respiratory Drugs

PART 7: ANTIINFECTIVE AND ANTIINFLAMMATORY

- 38. Antibiotics Part 1
- 39. Antibiotics Part 2
- 40. Antiviral Drugs
- 41. Antitubercular Drugs
- 42. Antifungal Drugs
- 43. Antimalarial, Antiprotozoal, and Anthelmintic Drugs
- 44. Antiinflammatory and Antigout Drugs

PART 8: CHEMOTHERAPEUTIC DRUGS AND BIOLOGIC AND IMMUNE MODIFIERS

- 45. Antineoplastic Drugs Part 1: Cancer Overview and Cell Cycle-Specific Drugs
- 46. Antineoplastic Drugs Part 2: Cell Cycle-Nonspecific Drugs and Miscellaneous Drugs
- 47. Biologic Response-Modifying and Antirheumatic Drugs
- 48. Immunosuppressant Drugs
- 49. Immunizing Drugs

PART 9: DRUGS AFFECTING THE GASTROINTESTINAL SYSTEM AND NUTRITION

- 50. Acid-Controlling Drugs
- 51. Bowel Disorder Drugs
- 52. Antiemetic and Antinausea Drugs
- 53. Vitamins and Minerals
- 54. Anemia Drugs
- 55. Nutritional Supplements

PART 10: DERMATOLOGIC, OPHTHALMIC, AND OTIC DRUGS

- 56. Dermatologic Drugs
- 57. Ophthalmic Drugs

58. Otic Drugs

Text, References, & Supplies

- Lilley, Linda & Snyder, Julie. (2020) Pharmacology and the Nursing Process. 9th Edition. Elsevier. St. Louis, Missouri
- ATI PN Pharmacology
- Nursing Drug Handbook
- 4X6 Note Cards (around 100) if desired for drug cards

Course Competencies

A = (100-90)

B = (89.9-80)

C = (79.9-75)

D = (74.9-60)

F = (59.9 or below)

- Passing grade for this course is 75%. There are no rounding of grades. Students who fail this course may not progress in the VN program.

Unit Exams: 50%

Final Exam: 20%

Daily Grades: 20%

ATI PN Content Mastery Pharmacology 2020: 10%

ATI Content Mastery Pharmacology 2020: Students will participate in ATI Practice and Content Mastery exams. Refer to the attached "Requirements and Grading Grid for ATI Content Mastery Exams" handed out first day of class.

ATI Pharmacology Made Easy 4.0

In order for student to receive full credit for assigned ATI Pharmacology Made Easy 4.0 homework, student must do the follow:

1. Complete the lesson in its entirety, and spend at minimum the recommended time for each lesson.
2. Once finished with the lesson, student must then complete the lesson test.
3. The first attempt at the lesson test will be the grade recorded in the gradebook

Below are the recommended times for each assigned module:

Musculoskeletal System – 1.5 hours

Respiratory System – 1.5 hours

Cardiovascular System – 3 hours

Hematologic System – 2 hours

Endocrine System – 2 hours

Pain & Inflammation – 3 hours

Infection – 1.5 hours

Student Contributions and Class Policies

Student Contributions

1. HPRS 2200 meets for 4 lecture/lab hours per week. For every week, it is the responsibility of the student to be prepared before coming to class by reading the assigned chapters in the textbook.
2. The student is responsible for bringing textbooks and required materials to class.
3. Student is expected to comply with the policies outlined in the Midland College Student Handbook, and the Vocational Nursing Student handbook.

Class Policies

1. In order to meet the goals of HPRS 2200, the student must attend class, and participate in all learning activities. If a tardy/absence is unavoidable, student must contact instructor to let them know. Please refer to Vocational Nursing Student Handbook – Didactic Attendance.
2. Unit exams that are missed due to an absence will result in a make-up exam that will be scheduled at discretion of the instructor. In the event the makeup exam is not taken in these timelines, the student will receive a zero (0). Please refer to Vocational Nursing Student Handbook – Exams & Standardized Tests
3. No assignment is optional. No late work will be accepted. The grade will be recorded as a zero (0). All work must be original. Please refer to the Student Handbook on policies regarding Cheating/Plagiarism. Please refer to Vocational Nursing Student Handbook – Assignments & Grading
4. The instructor will dismiss a student from class for disruptive and inappropriate conduct. Please see Vocational Nursing Student Handbook – Student Conduct.
5. All cell phones are to be turned off during class. Any use of cell phones during class is considered disruptive behavior, and student will be dismissed from class. Watches with internet access are not permitted during exams, quizzes, or review. Recorders during lecture are permitted by instructor approval only. Please see Vocational Nursing Student Handbook – Personal Electronic Communication Equipment/College Computers.
6. There is a zero tolerance for academic dishonesty. Penalty for academic dishonesty is an automatic failing grade of “F” in the course and dismissal from the program.
7. Unit exams cover a random sample of the materials studied in each unit of study. Test questions will be presented as multiple choice and alternative formats, similar to questions from the NCLEX exam. Students may receive a broad/general review prior to the exam. Material presented by any variety of teaching method (audio-visual media, class presentation, independent study, required readings, and computer lab assignments)

may be included in exams. Exams are typically taken on Canvas/ATI. Please see Vocational Nursing Student Handbook – Exams & Standardized Tests.

Americans with Disabilities Act (ADA) Statement:

Midland College provides services for students with disabilities through Student Services. In order to receive accommodations, students must visit www.midland.edu/accommodation and complete the Application for Accommodation Services located under the Apply for Accommodations tab. Services or accommodations are not automatic, each student must apply and be approved to receive them. All documentation submitted will be reviewed and a “Notice of Accommodations” letter will be sent to instructors outlining any reasonable accommodations.

Title IX

Midland College does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs and activities. The following individual has been designated to handle inquiries regarding the non-discrimination policies: Title IX Coordinator/Compliance Officer, 3600 N. Garfield, SSC 131, Midland, TX 79705, (432) 685-4781. For further information on notice of non-discrimination, visit the ED.gov Office of Civil Rights website, or call 1-800-421-3481

Licensure Eligibility Notification

Completion of Midland College degrees and/or certificates does not guarantee eligibility to take a certification/registry/licensure examination. The eligibility of each person is determined on an individual basis by the regulatory body of the specific discipline. If you have a conviction of a crime other than a minor traffic violation, physical or mental disability/illness, hospitalization/treatment for chemical dependency within the past five years, current intemperate use of drugs or alcohol or a previous denial of a licensure or action by a licensing authority, you will need to contact the specific regulatory body for an individual ruling. Some programs require a criminal background check and urine and drug screen.

Health Science Division Information

Students are encouraged to contact the instructor anytime. Making an appointment will guarantee availability at a specific time.

Instructor Information/Program Director

Name: Brooke Foutch, RN

Office: TC 157

Office Telephone: 432-685-5594

Cell Phone: 940-765-7424

Email: bfoutch@midland.edu

Division Dean

Name: Dr. Miranda Poage

Abell-Hanger Science Building, Room 125

Office: 432-685-6754

Email: mpoage@midland.edu

Health Sciences Division Secretary

Name: Karen Harris

Davidson Family Health Sciences

Office: 432-685-4600

Email: kharris@midland.edu