

**Midland College**  
**Syllabus**  
**RSPT 1213**  
**Respiratory Care Pharmacology**

**Course Description:** A study of basic pharmacological principles/practices of cardiopulmonary drugs. Emphasis on classification, routes of administration, dosages/calculations, and physiological interaction.

**Text, References and Supplies:**

Textbooks

Colbert, J. C., & Gonzalez III, L. S., (2019). *Integrated Cardiopulmonary Pharmacology* (6th). California: BVT Publishing

Kacmarek, R. M., Stoller, J. K., & Heuer, A. J. (2021). *Egan's Fundamentals of Respiratory Care* (12th). St. Louis, Missouri: Elsevier.

**Students MUST actively participate by completing an academic assignment required by the instructor by the official census date. Students who do not actively participate in an academically-related activity will be reported as never attended and dropped from the course.**

**Course Outcomes:** Explain the mode of action, clinical indications, dosages, hazards, and side effects of cardiopulmonary drugs; calculate drug dosages; and select optimal drugs used in the practice of respiratory care.

**Disclaimer**

The instructor reserves the right to make modifications to this course throughout the semester.

**Course Goals and Student Learning Outcomes:**

- Upon successful completion of the course the student will:
- Define basic pharmacology terms.
- Discuss drug legislation.
- Identify acceptable drug references.
- Use accepted drug references.
- Differentiate from generic name or manufacturer name.
- Calculate drug dosages.
- Describe function of the nervous system.
- List different parts of the central and peripheral nervous system.
- Describe various drug administration routes.
- List drug classifications used in Respiratory Care.
- List the actions of each drug classification.
- List the dosages of each drug classification.
- List the hazards of each drug classification.

- List the routes of administration of each drug.
- List clinical uses of each drug classification.
- Identify, by label, color, bottle or vial, different medications.
- Prepare selected medications.

**Evaluation Method:**

<b>Attendance</b>	<b>5%</b>
<b>Exams</b>	<b>50%</b>
Exam 1	
Exam 2	
Exam 3	
Exam 4	
<b>Quizzes</b>	<b>10%</b>
Quiz 1	
Quiz 2	
Quiz 3	
Quiz 4	
<b>Worksheets/Assignments</b>	<b>5%</b>
Drug calculation worksheet	
Management of COPD worksheet	
Pharmacology of the Autonomic Nervous System	
Bronchodilators worksheet	
Anti-Inflammatory and Antiasthmatic Agents	
Mucokinetics and Surfactants	
<b>Projects</b>	<b>10%</b>
Pharmacology Project	
<b>Final Examination</b>	<b>20%</b>

A written final examination or project presentations will be administered during the scheduled finals week.

Each student is expected to take exams as scheduled. If an exam is missed for any reason, the student must take the exam on the student's first day back on campus or a grade of "0" will be recorded for the missed exam. Ten percent will automatically be deducted from the make-up exam score. No more than two exams per semester may be made-up (for each course). Exams may not be taken early in any class. Final exams must be taken at the scheduled time without exception.

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**All final exams must be taken to proceed within the respiratory care program.**

**Grading Standards:**

<b><u>A</u></b>	<b><u>90-100%</u></b>
<b><u>B</u></b>	<b><u>80-89%</u></b>
<b><u>C</u></b>	<b><u>70-79%</u></b>
<b><u>D</u></b>	<b><u>&lt;70%</u></b>

**Student Contributions and Class Policies**

Each student will spend at least 4 hours per week preparing for class. Attendance is critical in this class. The college attendance policy will be followed.

**All classroom performance and behavior will be considered academic.**

**Advising**

Any student that scores below a 70 on an exam is responsible for emailing the instructor and scheduling an advising session within 24 hours of the exam review.

**Make Up Exam Policy**

Each student is expected to take exams as scheduled. If an exam is missed for any reason, the student must take the exam on the student's first day back on campus or a grade of "0" will be recorded for the missed exam. Ten percent will automatically be deducted from the make-up exam score. No more than two exams per semester may be made-up (for each course). Exams may not be taken early in any class.

**All personal communication devices are to be placed on silence/vibrate during class time. If you must answer your device, please leave the immediate area.**

**No personal communication devices allowed in testing areas.**

### **Scholastic Dishonesty and Academic Misconduct**

The Midland College Policy will be followed.

### **Course Schedule:**

The class meets for 2 lecture hours per week.

### **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](http://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.

### **NON-DISCRIMINATION STATEMENT:**

Midland College does not discriminate on the basis of race, color, national origin, sex, disability or age in its program and activities. The following individuals have been designated to handle inquiries regarding the non-discrimination policies:

#### **Wendy A. Kane**

Dean of Student Life  
Midland College

Title IX Coordinator/Compliance Officer

3600 N. Garfield, SSC 131  
Midland, TX 79705

(432) 685-4781  
[Title9@midland.edu](mailto:Title9@midland.edu)

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.