

Midland College
Syllabus
RSPT 1213
Respiratory Care Pharmacology
2 credit hours (2-0-0)

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Course Description:

Text, References and Supplies:

The student will gain an understanding of math, basic terminology and legislation as is related to pharmacology. Following discussion of the autonomic nervous system, the student will gain a working knowledge of basic drugs used by the therapist related to respiratory care patients.

Textbooks

Colbert, J. C., & Gonzalez III, L. S., (2016). *Integrated Cardiopulmonary Pharmacology* (4th). California: BVT Publishing

Kacmarek, Stoller and Heuer, *Egan's Fundamentals of Respiratory Care*, 11th edit., St. Louis, Missouri; Mosby, 2017.

Student Learning Outcomes:

Upon successful completion of the course the student will:

1. Define basic pharmacology terms.
2. Discuss drug legislation.
3. Identify acceptable drug references.
4. Use accepted drug references.
5. Differentiate from generic name or manufacturer name.
6. Calculate drug dosages.
7. Describe function of the nervous system.
8. List different parts of the central and peripheral nervous system.
9. Describe various drug administration routes.
10. List drug classifications used in Respiratory Care.
11. List the actions of each drug classification.
12. List the dosages of each drug classification.
13. List the hazards of each drug classification.
14. List the routes of administration of each drug.
15. List clinical uses of each drug classification.
16. Identify, by label, color, bottle or vial, different medications.
17. Prepare selected medications.
18. Prepare an asthma project

Student Contributions, Responsibilities and Class Policies:

Attendance is critical in this class. Each student will spend at least 6 hours per week preparing for class. Class disruptions are disrespectful. Phone calls, messaging, texting or any other use with a personal communication device is firmly discouraged. If you must answer a call, please excuse yourself from the classroom.

Evaluation of Students:

A minimum of four (4) tests will be given plus a comprehensive final (unless otherwise designated by the instructor). Tests questions will come from lecture, reading assignments and extra credit assignments. Absolutely no personal communication devices are allowed in testing areas. Please refer to the NBRC student handbook for restrictions during tests.

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.**

Grading Breakdown

| Item | Percent of Final Grade |
|------------|------------------------|
| Exams | 70% |
| Attendance | 10% |
| Final Exam | 20% |
| Total | 100% |

Make-up Work

No make-up work allowed. If an exam is not completed at the discussed time the option for extra credit is lost.

Curriculum and course advisement from the Respiratory Care staff will be provided during registration and during office hours posted at the instructor's office. The instructor may give continual advisement to a student as needed and when required throughout the span of the course. Assessments are made of the student through testing. Students will also assess and evaluate their progress, their instructor, the program objectives, the learning strategies and the general competencies. The assessments are tools utilized to review, evaluate and if necessary implement changes to the learning materials, the delivery of said; and the strategies for instruction.

Course Schedule:

Monday and Wednesday from 0800 – 0850.

Safety Training:

Students receive annual training in the following: blood and air borne pathogens, electrical safety, back safety, hazardous chemicals, latex allergies, fire and disaster procedures, security and personal safety procedures and safety requirements of clinical facilities. Students must maintain current CPR, immunizations, and health insurance during all clinical courses.

Americans with Disabilities Act (ADA):

Any student who, because of a disabling condition, may require some special arrangements in order to meet course requirements should contact the Counselor/Disability Specialist at 432-685-4505 as soon as possible. The office is located in the Scharbauer Student Center Building. These conditions may include documented physical or educational disabilities. Please be aware that services or accommodations are not automatic. Each student must request them and secure the proper authorizations/documentation.

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:

Tana Baker

Title IX/504 Coordinator and Compliance Officer

3600 N. Garfield, SSC 242

Midland, TX 79705

(432) 685-4781

tbaker@midland.edu

Or

Natasha Morgan

Human Resources/Payroll Director

3600 N. Garfield, PAD 104

Midland, TX 79705

(432) 685-4534

nmorgan@midland.edu

For further information on notice of non-discrimination, visit the Office of Civil Rights website at <https://wdcrobcop01.ed.gov/CFAPPS/OCR/contactus.cfm> for the address and phone number of the office that serves your area or call 1-800-421-3481.

Asthma Project

This project will represent your final exam. (No exchange of grade for previous exams)

The student will prepare an asthma plan for the four (4) different categories of asthma symptoms. The project should include a treatment plan for maintenance and a treatment plan for exacerbation in each category. This project will count 20% of the semester grade. The project is due on April 15th.

The project should be prepared with the following in mind:

1. Use the treatment plan at home.
2. The project will consist of 5 parts
 - a. Plan for 'Intermittent' (20%)
 - b. Plan for 'Mild Persistent' (20%)
 - c. Plan for 'Moderate Persistent' (20%)
 - d. Plan for 'Severe Persistent' (20%)
 - e. Information about asthma, medication, and equipment usage/technique. (20%)
 - a. Definition/symptoms/triggers/treatment of asthma
 - b. Categories of asthma
 - c. Environmental concerns
 - d. Peak flow meter
 - i. Usage (establish and monitor PF)
 - ii. Green, yellow, red zones
 - e. Medications; (list and information)
 - i. Rescue
 - ii. Maintenance
 - iii. Monthly cost of prescribed medications for each category (from an American pharmacy)
 - f. SVN, MDI, DPI, spacer, compressor
 - f. References
 - g. NOTE: section 'e. information' above will be submitted to turnitin for plagiarism evaluation.
3. I will be glad to preview your project and make recommendations if needed.

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.