

Midland College
Master Syllabus
RSPT 1371
Introduction to Respiratory Care

Course Description:

An introduction to the field of respiratory care.

End of Course Outcomes:

Outline the history of the respiratory care profession; outline the organization and function of hospital departments; describe issues in medical malpractice and ethics; identify the respiratory therapists' role in performing basic vital signs, body mechanics, and cardiopulmonary assessment; and describe infection control techniques including health care facility protocols recommended by the Centers for Disease Control.

Text, References, Supplies:

Egan's Fundamentals of Respiratory Care, 12th ed., Craig Scanlan, Mosby

Disclaimer

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

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 Objectives and Student Learning Outcomes:

- I. Assess and analyze the techniques used in patient assessment and the significance of its results
 - A. Identify the purpose and methods used to conduct a patient interview.
 - B. Identify and interpret signs and symptoms of cardiopulmonary disease to include:
 1. Medical history
 2. Vital signs
 3. Level of consciousness
 4. Common cardiopulmonary symptoms
 - C. Identify the four techniques used by the RCP to assess patients with cardiopulmonary disease
 - D. Utilize inspection techniques to assess and interpret various diseases
 - E. Utilize palpation technique to assess and interpret various diseases
 - F. Utilize percussion technique to assess and interpret various diseases
 - G. Utilize auscultation technique to assess and interpret various diseases
- II. Express the importance of professionalism in the health care setting. Summarize the importance of the history of respiratory care and define the structure of the respiratory care profession.

- A. Identify and demonstrate the importance of professionalism within the healthcare environment
 - B. Define HIPAA and explain its purpose
 - C. Identify various types of workforce harassment
 - D. Identify early philosophers, scientists, and medical personnel whose discoveries and inventions led to the evolution of medicine
 - E. Describe the work of scientists and inventors that led to the development of clinical applications of oxygen therapy and mechanical ventilation
 - F. Devote the development of Clinical Practice Guidelines and Therapist Driven Protocols
 - G. Trace the evolution of the professional, credentialing, and school accreditation organizations involved in maintaining the quality of the respiratory care profession
- III. Analyze the methods of quality and evidence-based respiratory care.
- A. Discuss elements that constitute quality respiratory care
 - B. Explain methods that are used for monitoring quality of respiratory care delivery
 - C. Explain how respiratory care protocols enhance the quality of respiratory care services
 - D. Explain disease management
 - E. Define evidence-based medicine
- IV. Identify factors of patient safety, communication and record keeping
- A. Identify and describe factors to minimize common safety hazards and risks among patients receiving respiratory care
 - B. Explain factors that affect the communication process
 - C. Explain how to improve the therapists' effectiveness in health communication.
 - D. Recognize and help resolve interpersonal or organizational sources of conflict
 - E. Analyze and interpret the information comprised in a medical record
 - F. Explain how to maintain a precise medical record
- V. Describe the most common legal issues and ethical decisions that have a direct impact on the respiratory care profession
- A. Distinguish between legal and ethical scenarios
 - B. Describe common legal issues in respiratory care
 - C. Describe common ethical issues in respiratory care
 - D. List the major healthcare reimbursement methods used in the United States
 - E. Discuss how culture diversity affects patient care.
 - F. Discuss End of Life Care.
- VI. Assess/interpret clinical laboratory data and identify common medical abbreviations
- A. Define and describe the three functions of blood.
 - B. Interpret the results of a CBC including the normal values and causes of an increase or decrease in the following:
 - 1. RBC
 - 2. HGB
 - 3. Hematocrit
 - 4. WBC
 - 5. Platelets
 - 6. Glucose

- C. Interpret the importance of a differential blood test and describe the types of WBC's
- D. Describe the types of coagulation studies and interpret the results.
- E. Describe and interpret the types of microbiology tests.
- F. Evaluate the types of serum enzymes and interpret the results.
- G. Describe the normal fluid movement due to hydrostatic and oncotic pressure.
- H. Define the normal values of intake and output including the normal sources of intake and output.
- I. Describe and interpret the results of laboratory tests that determine renal function.
- J. Describe and interpret the results of electrolyte values to include:
 - 1. Na⁺
 - 2. K⁺
 - 3. Cl⁻
 - 4. HCO₃
- K. Use and interpret basic abbreviations used in the hospital settings
- VII. Identify and define infection control techniques
 - A. Explain how infection spreads between patients and among healthcare personnel
 - B. Identify and describe methods of disinfecting, pasteurizing and processing re-usable equipment
 - C. Identify the different types of isolation techniques
 - D. Describe the importance of infection control
 - E. Define and describe VRE and MRSA
 - F. Describe the role of respiratory care in disaster management
 - G. Describe isolation procedures and protocols implemented by healthcare facilities during COVID
- VIII. Explain the basic physical sciences related to respiratory care
 - A. Describe motion, properties of liquids, molecular movement, and chemistry
 - B. Define and describe the metric system
 - C. Differentiate between the conversions within the metric and English system

Evaluation of Students

Attendance	5%
6 Exams	50%
<ul style="list-style-type: none"> • Exam 1 • Exam 2 • Exam 3 • Exam 4 • Exam 5 • Exam 6 	
Quizzes	10%
<ul style="list-style-type: none"> • Quiz 1 • Quiz 2 • Quiz 3 • Quiz 4 	

- Quiz 5
- Quiz 6

Assignments. 5%

Lab Competencies 10%

- Vital Signs
- Patient Assessment
- Isolation Procedure

Final Examination (Course Objectives) 20%

Test/exam questions will come from lecture, reading assignments and homework assignments. Most tests will be objective in nature. All students must take the final exam (failure to do so can result in the inability to proceed to the next semester within the program). Final exams must be taken at the scheduled time without exception.

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

Grading Standards:

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

Student Contributions, Responsibilities 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.

Class Policies

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. All students must achieve a 70 or higher to pass this course.

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.

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:

This class meets for 3 lecture hours and 1 lab hours (Labs will be included with Clinical I) (Monday 8:00-8:50, Wednesday 8:00-8:50, Friday 8:00-9:50).

Division Information:

Division Chairman: Miranda Poage, PhD

Division Office Location and Telephone: 208, 685-4600

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.

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

For further information on notice of non-discrimination, visit the ED.gov Office of Civil Rights website, or call 1 (800) 421-3481.

Students are encouraged to contact the instructor at any time; however, making an appointment will guarantee the instructor's availability at a specific time.

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.