

**Midland College
Syllabus
RSPT 2247
Specialties in Respiratory Care
(2-0-0)**

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Course Description: Emerging and specialty practices in respiratory care.

Text, References, and Supplies:

Textbooks

Kacmarek, Stoller, Heuer. Egan's Fundamentals of Respiratory Care. 11th Edition, Mosby/Elsevier. 2017

Burton, Respiratory Care: A Guide to Clinical Practice. Fourth Edition, Lippincott. 1997.

Heuer. Wilkins' Clinical Assessment in Respiratory Care, 7th Edition. Mosby. 2014.

Kacmarek, The Essentials of Respiratory Care, Fourth Edition. Mosby. 2005.

Hess, Respiratory Care, Principles and Practices, 2nd Edition. Saunders, 2012.

Madama. *Pulmonary Function Testing and Cardiopulmonary Stress Testing*, (2nd Ed.). Delmar. 1998.

Walsh. *Neonatal and Pediatric Respiratory Care*, (4th ed.). Elsevier. 2015.

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 Goals/ Objectives:

Upon successful completion of the course the student will:

1. Describe indications for HBO
2. List expected outcomes for HBO
3. List hazards associated with HBO
4. Relate monoplace HBO to multiplace HBO
5. Describe indications for ECMO
6. List inclusion criteria for ECMO
7. List exclusion criteria for ECMO
8. List expected outcomes for ECMO
9. List hazards associated with ECMO
10. Discuss methods for providing ECMO
11. Identify the components of the ECMO circuit
12. Relate veno-venous and veno-arterial ECMO
13. Describe indications for iNO
14. List expected outcomes for iNO
15. List hazards associated with iNO
16. Describe how iNO is administered

17. Identify the components of the iNO circuit
18. Describe indications for sleep studies
19. List expected outcomes for sleep studies
20. List hazards associated with sleep studies
21. Discuss the method for performing a sleep study
22. Identify the parameters monitored during a sleep study
23. Discuss how a sleep study is scored
24. Describe indications for nutritional assessment
25. List expected outcomes of nutritional assessment
26. List hazards associated with nutritional assessment
27. Discuss methods for nutritional assessment
28. Describe indications for metabolic monitoring
29. List expected outcomes for metabolic monitoring
30. List hazards associated with metabolic monitoring
31. Discuss direct calorimetry for metabolic monitoring
32. Discuss indirect calorimetry for metabolic monitoring
33. Describe indications for exercise/stress testing
34. List expected outcomes for exercise/stress testing
35. List hazards associated with exercise/stress testing
36. Discuss steady state exercise/stress testing
37. Discuss progressive multistage exercise/stress testing
38. Describe indications for electroencephalograms
39. List expected outcomes for electroencephalograms
40. List hazards associated with electroencephalograms
41. Discuss how an electroencephalogram is obtained
42. Discuss indications for peripheral access
43. Describe the procedure for peripheral access
44. List expected hazards associated with peripheral access
42. Review material presented on self-assessment exams

Student Contributions and Class Policies:

Each student will spend at least 6 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.

Evaluation of Students:

A minimum of four (4) tests will be given including a comprehensive final (unless otherwise designated by the instructor). The final exam will carry the same weight as other exams (not quizzes). Weekly quizzes will be averaged and will equal one exam. Test questions will come from lecture, reading assignments and homework assignments. Most tests will be objective in nature.

1.	Tests (minimum of four)	
	A. term project required	80%
	B. if term project not required	90%
2.	Attendance, participation and attitude	10%
3.	Term project or paper if required	10%
	Total	100%

**Course
Schedule:**

The class meets for 2 lecture hours per week. Wednesdays from 10:00 – 12:00 pm

**Students with
Disabilities**

AMERICANS WITH DISABILITIES ACT (ADA):

The Americans With Disabilities Act (ADA) and Section 504 of the Rehabilitation Act require that no otherwise qualified person with a disability be denied access to, or the benefits of, or be subjected to discrimination of any program or activity provided by an institution or entity receiving federal financial assistance. It is this Section 504 mandate that has promoted the development of disability support service programs in colleges and universities across the country. Sub-part E of Section 504 deals specifically with this mandate for institutions of higher education.

While it does not require development of special educational programming, for students with disabilities, it does require that an institution (public or private) be prepared to make appropriate academic adjustments and reasonable accommodations to allow the full participation of students with disabilities in the same programs and activities available to non-disabled students. Disabilities may include things such as physical/mobility problems such as paralysis or academic problems like learning disabilities. Some examples of accommodations are extra time for tests, testing in a quiet location, and providing architectural access to buildings.

Midland College provides services for students with disabilities through Student Services. In order to receive accommodations, students must place documentation on file with the Counselor/Disability Specialist. Students with disabilities should notify Midland College prior to the beginning of each semester. Student Services will provide each student with a letter outlining any reasonable accommodations. The student must present the letter to the instructor at the beginning of the semester.

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

Tana Baker, Title IX Coordinator/Compliance Officer, 3600 N. Garfield, SSC 242, Midland, TX 79705, (432) 685-4781, tbaker@midland.edu;

Natasha Morgan, Director Human Resources/Payroll, 3600 N. Garfield, PAD 104, Midland, TX 79705, (432) 685-4534, nmorgan@midland.edu. For further information on notice of non-discrimination, visit <http://wdcrobcolp01.ed.gov/CFAPPS/OCR/contactus.cfm> or call 1 (800) 421-3481.

Spanish

Midland College no discrimina por motivos de raza, color, nacionalidad, sexo, discapacidad, o edad en sus programas o actividades. Las siguientes personas han sido designadas para responder a cualquier pregunta o duda sobre estas políticas no discriminatorias:

Tana Baker, Title IX Coordinator/Compliance Officer, 3600 N. Garfield, SSC 242, Midland, TX 79705, (432) 685-4781, tbaker@midland.edu;

Natasha Morgan, Director Human Resources/Payroll, 3600 N. Garfield, PAD 104, Midland, TX 79705, (432) 685-4534, nmorgan@midland.edu. Para más información sobre estas políticas no discriminatorias , visite <http://wdcrobcolp01.ed.gov/CFAPPS/OCR/contactus.cfm> o llame al 1 (800) 421-3481.

Division Information

Division Dean: Dr. Carmen Edwards, DNP, MSN, RN
Division Secretary: Karen Harris, CPS
Division Office Location 206 DFHS
Division Telephone:, 685-4600 or 685-4799
Program Chair: Bob Weidmann, MEd, RRT-NPS, RPFT, RCP
Program Office Location: AMS A34
Program Office Telephone: 432/685-5549

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.