

Midland College
Syllabus
RSPT 1411
Respiratory Care Procedures II
(4-1-0)

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**Course
Description:**

This course is designed to give the student a basic understanding of critical care to include: maintenance of the patient's airway, airway care, classification and application of mechanical ventilators, principles of operation, maintenance and repair of selected mechanical ventilators. The student will also gain an understanding of patient psychology as it relates to critical care.

**Text,
References,
and Supplies:**

Textbooks

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

Kacmarek, Robert M., Craig W. Mack, and Steven Dimas. The Essentials of Respiratory Care 4th ed., St. Louis; C. V. Mosby Co. 2005.

**Course Goals/
Objectives:**

Upon successful completion of the course the student will:

1. Describe and perform techniques of physical examination.
2. List the rationale, indications, contraindications and hazards of intubation/extubation and tracheostomy procedures.
3. List the equipment needed to successfully perform an endotracheal intubation/extubation or tracheostomy procedure.
4. Describe the different endotracheal and tracheostomy tubes used in hospitals today.
5. Describe and perform endotracheal intubation/extubation procedure on patient with 100% accuracy.
6. Describe the tracheostomy procedure.
7. Explain and perform proper tube care to include aspiration technique.
8. Define basic terms and concepts of mechanical ventilation
 9. Explain physical aspects of mechanical ventilation
10. Demonstrate technique for setting up, monitoring and maintaining the ventilators listed below.
11. Demonstrate all modalities available on modern ventilators
12. Simulate management and stabilization of an ICU patient receiving ventilator care using the TTL.
13. List indications, contraindications and side effects for A/C, IMV, PEEP, and CPAP.
14. Describe techniques used to improve oxygenation.
15. Describe discontinuation of and weaning from mechanical ventilation.
16. Troubleshoot problems in equipment.
17. Calculate C_{dyn}, C_{stat}, R_{aw}, V_t, V_D, V_A, and compliance factor on equipment used in lab.
18. Perform basic interpretation of blood gases, chest x-ray, and ECG.
19. Other topics as provided in lecture
20. Ventilators used in Lab.
 - A. Bird Mark 7 or 8
 - B. Secrhist IV 100B
 - C. Hamilton G5
 - D. Puritan Bennett 840
 - E. Siemens Servo *i*

Student Contributions and

The student agrees to devote time, study and work toward the mission of the course.

Class Policies:

1. Three (3) consecutive hours of unexcused absences or a total of six (6) hours unexcused absences may result in a student receiving an "F" in the course.
2. For qualifications as an excused absence, it is the obligation of the student to notify the instructor as soon as is practical in advance of that class period. If the instructor is not available, leave a message.
3. All classroom performance and behavior will be considered academic.

Evaluation of Students:

A minimum of four (4) tests will be given plus a comprehensive final (unless otherwise designated by the instructor). You will be expected to complete any and all assignments given throughout the semester. Test questions will come from lecture, reading assignments and other assignments.

GRADING SUMMARY

1. Exams	70%
2. Attendance	10%
3. FINAL	<u>20%</u>
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. You may opt to replace an exam grade with the grade you make on the final exam.

Personal Communication Devices

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 allows in testing areas.

ADVISEMENT AND ASSESSMENTS

Curriculum and course advisement from the Respiratory Care staff will be provided during registration and posted office hours in that instructor's office. Students will receive continuing advisement throughout the course by the instructor as needed or required.

Assessments are made of the student by the instructor in the form of both formative and summative evaluation (testing). The student is also asked to assess his/her progress as well as the evaluation of the instructor, objectives of the program, learning strategies, and the general competencies identifiable for the course. These assessments are necessary to discover the strengths and weaknesses of the program as well as the student, and to help improve learning materials, learning environment, and the strategies for instruction.

Course Schedule:

Monday and Wednesday from 0900 to 1150.

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://wdcrobcolp01.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.

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.

