

Midland College
Syllabus
RSPT 2361
Clinical VI
(0-0-16)

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Course Description: This course is a method of instruction providing detailed education, training and work-based experience and direct patient/client care, generally at a clinical site. Specific detailed learning objectives are developed for each course. On-site clinical instruction, supervision, evaluation and placement are the responsibility of the college faculty. This is a capstone experience for the second-year students. Prerequisite: RSPT 2360.

Text, References, and Supplies: Textbooks:

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

Cummins, Advanced Cardiac Life Support. American Heart Association. 2001.

Burton, Respiratory Care: A Guide to Clinical Practice. 4th ed. Lippincott. 1997.

Chang, Clinical Application of Mechanical Ventilation. 3rd Edition. Delmar. 2006.

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

Heuer, Scanlan, Wilkin's Clinical Assessment in Respiratory Care. 7th ed. Elsevier. 2014.

Dataarc software for clinical documentation

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. Demonstrate general respiratory care procedures to include, but not limited to:
 - a. Patient assessment,
 - b. Oxygen therapy
 - c. Humidity therapy,
 - d. Aerosol therapy,
 - e. Hyperinflation therapy (IPPB, IS)
 - f. Bronchial Hygiene (CPT, Suctioning)

2. Demonstrate intensive care procedures to include, but not limited to:
 - a. Endotracheal tube care (positioning, cuff care, retaping)
 - b. Ventilator set up
 - c. Ventilator graphics (loops, waveforms, curves)
 - d. Ventilator setting modifications
 - e. Ventilator weaning
 - f. Bedside pulmonary mechanics

 - g. Diagnostic testing and interpretation (ABG, PFT, CXR, CT scans, MRI, PET scans, Hemodynamic monitoring)

3. Demonstrate trach care
4. Demonstrate delivery room neonatal respiratory care procedures to include but not limited to:
 - a. (Neonatal Assessment, Warm, Dry, Stimulate, Blow by O₂, Bag/mask ventilation)
5. Demonstrate neonatal intensive respiratory care procedures to include but not limited to:
 - a. Supplement O₂ delivery (nasal cannula, Vapotherm, nasal CPAP, oxyhood)
 - b. Non-invasive diagnostics (Transillumination of the chest, TCOM, Pulse oximetry, CXR)
 - c. Capillary blood gas sampling
 - d. Neonatal mechanical ventilation (set up, modifications, weaning) for each of the following: Conventional ventilation, High Frequency (oscillator, jet)
6. Describe indications for HBO
7. List expected outcomes for HBO
8. List hazards associated with HBO
9. Discuss methods of delivering HBO
10. Describe indications for sleep studies
11. List expected outcomes for sleep studies
12. List hazards associated with sleep studies
13. Discuss the method for obtaining a sleep study
14. Describe indications for exercise/stress testing
15. List expected outcomes for exercise/stress testing
16. List hazards associated with exercise/stress testing
17. Discuss different methods for exercise/stress testing

Student Contributions and Class Policies:

Each student will spend at least 8 hours per week preparing for class. **Attendance is critical in this class. Students are allowed two (2) discretionary days off (15 hours), after that a penalty will be assessed as follows: 186 + hours – no penalty; 178.5 – 185.9 (10% deduction); 171 – 178.4 (20% deduction); 163.5 – 170.9 (30% deduction).**

All clinical performance and behavior will be considered academic.

Evaluation of Students:

| | | |
|----|---|------|
| A. | Tasks completed as per competency evaluations | 50% |
| B. | Participation | 10% |
| C. | Behavior | 10% |
| D. | Case Studies | 10% |
| E. | Oral and/or Written exams* | 20% |
| | Total | 100% |

Case studies must be completed or the student will receive an Incomplete grade (I) and the one(s) that was/were not completed will be required in addition to those required the following semester or summer session. If in that following semester/summer session there are any case studies not completed, the grade of “I” will become an “F” and the student will not be able to continue. Excessive tardies or absences will result in a lower final grade. Clinical documentation will be completed on dataarc.ws.

*** Students will pass three different Therapist Multiple Choice (TMC) Self-Assessment Exams (SAEs) at the Registry Level and three different Clinical Simulation SAEs. All SAE Exams must be approved by the instructor prior to the students taking the NBRC Comprehensive Secure TMC SAE online. Before the student is eligible for graduation the NBRC Secure Comprehensive TMC SAE (or its equivalent) must be passed. Remediation will be required as needed.**

Course Schedule: The schedule is Monday and Friday 6:15 a.m. – 1:45 p.m. at both Midland Memorial Hospital and Medical Center Hospital, Odessa. Other times are as listed on the clinical schedule.

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.

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 the mandate for institutions of higher education.

While it does not require development of special educational programming, for students with disabilities, 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 provide each student with a letter outlining any reasonable accommodations. The student must present this 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;

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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
Telephone:., 685-4600 or 685-4799
Program Chair: Bob Weidmann, M.Ed., RRT, RPFT, RRT-NPS, 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.

Student _____

Final Grade _____

50% Competencies _____
 10% Participation _____
 10% Behavior _____
 10% Case Studies _____
 20% NBRC TMC _____
 Total _____

CPR expires. _____

3 TMC RRT _____ 3 Clinical Sims _____

Participation (10%)

_____ Abstracts 15
 _____ Verified Log 10
 Ave _____

Case Study (10%)

_____ #1
 _____ #2
 Ave _____

Behavior (10%)

_____ ave.

Competencies

Patient Data (9)

- Vital Signs (3)
- Chest Assessment (2)
- Patient Assessment (2)
- X-ray Interpretation (2)

Bronchial Hygiene (3)

- Chest Physiotherapy (2)
- Coughing
- Breathing Exercises
- Mucous Clearance Adjuncts
- MetaNeb
- Intrapulmonary Percussive Ventilation

Oxygen Therapy (9)

- Nasal Cannula (3)
- Simple Mask
- Partial Rebreather
- Non-Rebreather (1)
- Air Entrainment Mask (1)
- Pulse Oximetry (3)
- Transport with Oxygen
- High Flow Nasal Cannula

Resuscitation (1)

- Setup and Ventilation via Endotracheal Tube
- Setup and Ventilation via Mask
- Adult/Pedi CPR Airway and Ventilation
- Adult/Pedi CPR Compressions

Aerosol/Humidity Therapy (2)

- Face Tent
- Face Mask
- Trach Collar
- T-Piece
- Ultrasonic Nebulizer
- Humidifier (under Generic)

Suction Procedures (6)

- Endotracheal Suctioning
- Nasotracheal Suctioning
- Tracheal Suctioning
- Inline Suctioning (4)

Aerosol Drug Administration (5)

- Metered Dose Inhaler
- Dry Powder Inhaler
- SVN (3)

Endotracheal Tube/Tracheostomy Care (5)

- Securing Artificial Airway
- Tracheostomy Care (1)
- Cuff Management
- Heat/Moisture Exchanger (3)
- Intubation
- Extubation

Hyperinflation Therapy (4)

- Incentive Spirometry (2)
- IPPB (EZPAP)

Inline Aerosol Drug Administration (4)

- Inline MDI
- Inline SVN (3)

Ventilator Care (5)

Pulmonary Function Testing (7)

Ventilator Setup
Routine Ventilator Check (3)
Ventilator Parameter Change
Ventilator Circuit Change
Ventilator Graphics Analysis
Capnography

Weaning from Mechanical Ventilation (3)
Weaning Parameters
Weaning

Noninvasive Positive Pressure Ventilation (1)
Noninvasive Ventilator Setup
Noninvasive Ventilator Check

ICU Oxygen Administration (1)
High Flow Nasal Cannula
Manual Ventilation during Transport
Transport Ventilation Setup

Specialty Rotations (4)
HBO
Sleep Lab
Management/Education (ME)

Peak Flow
Bedside Spirometry
Spirometry (1)
Methacholine Challenge
N₂ Washout/He dilution
Diffusion Study
Plethysmography (1)
PFT Quality Assurance (1)

Arterial Blood Gasses (3)
ABG sampling (1)
ABG analysis (1)
ABG analyzer QA (1)
Art-line Sampling

Neonatal (2)
TCOM
Oxyhood
Apnea Monitor
Newborn Resuscitation/CPR
Capillary Sampling
Transillumination

Physician Contact (8)

ICU Performance Level
3/3 FTE

Total _____/80 competencies; Percentage ____ X 50 = ____

To get credit the competency must be graded as satisfactory.
Competencies may come from Adult or Pedi floor areas.

Minimum and Maximum Requirements:

Example: (only 2) is the maximum credit for that item

Example: (x2) is the minimum to get credit for that item

If there is no designation it will count toward the total for the category (listed in parenthesis in the heading)