Midland College
Syllabus
Spring 2019
RSPT 2361
Clinical VI
(0-0-16)

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

**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.

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](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](http://wdcrobcolp01.ed.gov/CFAPPS/OCR/contactus.cfm) o llame al 1 (800) 421-3481.
Instructor Information:
Name: Bob Weidmann, M.Ed., RRT-NPS, RPFT, RCP
Office Location: A34 AMS
Office Telephone: 432/685-5549
Home Telephone: 432/697-4725
Cell number: 432/853-6403
E-Mail Address: rweidmann@midland.edu
Office Hours: Monday/Friday 9-11:30 (during clinical rotations)
Tuesday/Thursday 9-1, 3-4

Division Dean: Dr. Carmen Edwards
Division Secretary Names: Karen Harris
Division Office Location and Telephone: 206 DFHS, 685-4600 or 685-4799

Students are encouraged to contact the instructor at any time; however, making an appointment will guarantee the instructor's availability at a specific time.
The above-named course syllabus and licensure eligibility notification has been received by, and explained to me. I have read, understood and will adhere to the same.

Student's Signature

Date

This sheet must be returned to your instructor by the end of the first week of class.
Clinical VI

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%)  Case Study (10%)  Behavior (10%)
_____ Abstracts _15_  _____ #1  _____ ave.
_____ Verified Log _10_  _____ #2  _____ ave.

Competencies

Patient Data (9)
Vital Signs (3)
Chest Assessment (2)
Patient Assessment (2)
X-ray Interpretation (2)

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

Aerosol/Humidity Therapy (2)
Face Tent
Face Mask
Trach Collar
T-Piece
Ultrasound Nebulizer
Humidifier (under Generic)

Aerosol Drug Administration (5)
Metered Dose Inhaler
Dry Powder Inhaler
SVN (3)

Hyperinflation Therapy (4)
Incentive Spirometry (2)
IPPB (EZPAP)

Bronchial Hygiene (3)
Chest Physiotherapy (2)
Coughing
Breathing Exercises
Mucous Clearance Adjuncts
MetaNeb
Intrapulmonary Percussive Ventilation

Resuscitation (1)
Setup and Ventilation via Endotracheal Tube
Setup and Ventilation via Mask
Adult/Pedi CPR Airway and Ventilation
Adult/Pedi CPR Compressions

Suction Procedures (6)
Endotracheal Suctioning
Nasotracheal Suctioning
Tracheal Suctioning
Inline Suctioning (4)

Endotracheal Tube/Tracheostomy Care (5)
Securing Artificial Airway
Tracheostomy Care (1)
Cuff Management
Heat/Moisture Exchanger (3)
Intubation
Extubation

Inline Aerosol Drug Administration (4)
Inline MDI
Inline SVN (3)
Ventilator Care (5)
- Ventilator Setup
- Routine Ventilator Check (3)
- Ventilator Parameter Change
- Ventilator Circuit Change
- Ventilator Graphics Analysis
- Capnography

Pulmonary Function Testing (7)
- Peak Flow
- Bedside Spirometry
- Spirometry (1)
- Methacholine Challenge
- N₂ Washout/He dilution
- Diffusion Study
- Plethysmography (1)
- PFT Quality Assurance (1)

Weaning from Mechanical Ventilation (3)
- Weaning Parameters
- Weaning

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

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

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

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

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

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)
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<tr>
<th>Date</th>
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<td>MC Lab</td>
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<td>EASTER HOLIDAY</td>
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<td>May 3</td>
<td><strong>Secure Comprehensive TMC SAE</strong> All clinical documentation due</td>
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