Midland College
Syllabus
RSPT 2360
Clinical V
(0-0-15)

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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. Prerequisite: RSPT 1161.

Text, References, and Supplies:

Textbooks/References

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

Butler, Laboratory Exercises for Competency in Respiratory Care. 3rd Edition. F.A. Davis. 2013.

Chang, Clinical Application of Mechanical Ventilation. 2nd Edition. Delmar. 2001.

Kacmarek, Egan's Fundamentals of Respiratory Care, 11 Edition. Elsevier. 2017

Walsh, Perinatal and Pediatric Respiratory Care. 4th ed. Evolve Saunders. 2015.

Wilkins. Clinical Assessment in Respiratory Care. 7th Edition, Elsevier. 2014.

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Course Goals/ Objectives: Upon successful completion of the course the student will:

1. Demonstrate airway care
2. Demonstrate trach care
3. Perform bedside ventilatory assessment
4. Identify ventilator waveforms
5. Analyze ventilator waveforms
6. Perform bedside cardiopulmonary assessment
7. Prepare a Bird Mark VII ventilator
8. Prepare a Bennett PR-2 ventilator
9. Prepare a Siemens 900 C ventilator
10. Prepare a Drager ventilator
11. Prepare an Infant Star ventilator
12. Prepare a Sechrist IV 100B ventilator
13. Explain mechanical ventilatory modes
14. Calculate A-aDO_2
15. Calculate flow
16. Calculate I:E ratio
17. Calculate shunt
18. Calculate V_D/V_T
19. Calculate $PaCO_2$ change

20. Calculate FiO_2 needed
21. Apply ventilator therapy to a variety of patients
22. Display ventilator patient weaning on a variety of patients
23. Describe chest x-ray generation
24. Discuss methodology for chest x-ray interpretation
25. Identify normal chest x-ray
26. Identify abnormal chest x-ray
27. Describe perfusion scan
28. Describe special radiologic techniques
29. Describe ventilation scan
30. Demonstrate neonatal respiratory care techniques
31. Use neonatal respiratory equipment
32. Describe principles of intracranial pressure monitoring
33. Discuss techniques involved with intracranial pressure monitoring
34. Describe principles chest tube drainage
35. Discuss techniques involved with chest tube drainage
36. Describe principles of counterpulsation
37. Discuss techniques involved with counterpulsation
38. Describe principles of hemodynamics
39. Discuss techniques involved with hemodynamics
40. Perform General and Intensive Care Respiratory Care Procedures to include, but not limited to those listed on the Clinical V grade summary sheet (page 4 of this syllabus)

Student Contributions

Each student will spend at least 8 hours per week preparing for class. Attendance is critical in this class.

Class Policies:

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.	*Final (TMC)*	*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. The highest grade achievable to replace the Incomplete will be a "C". If in that following semester there are any case studies not completed, the grade of "I" will become an "F" and the student will not be able to continue.***

Attendance:

All students must complete clinical clock hours required by the program in order to receive a degree from Midland College.

Students are allowed two absences during the Fall semester.

A tardy results from being more than 15' (minutes), but not more than thirty 30' (minutes) late for the start of the shift if you have not missed report. An absence results from being more than thirty minutes late, missing report, or leaving the clinical facility without proper authorization from the clinical instructor or not coming in at all.

After using the allowed absences the equivalent percentage of final grade reductions is as follows:

Deduction	*Data Arc Hours*
No deduction	*190+*
10% deduction	*182.5 – 189.9*
20% deduction	*175 – 182.4*
30% deduction	*≤174.9*

Students are not required to use the two allowed absences and are strongly encouraged to use them judiciously and toward the end of the semester if possible in case extenuating circumstances should arise.

Course Schedule This course meets 7.5 hours twice a week for a total of 15 hours. It meets 6:15 – 1:45 on Monday/Fridays

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 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:

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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: 208 DFHS

Division Telephone: 685-4600 or 685-4799

Program Chair: Bob Weidmann, M.Ed., RRT, RPFT, RRT-NPS, RCP

Program Office Location: A34 AMS

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.

Clinical V

Student _____ Final Grade _____

50% Competencies _____
10% Participation _____
10% Behavior _____
10% Case Studies _____
20% Final (TMC) _____
Total _____

CPR expiration date _____

Participation (10%)
_____ Abstracts _____
_____ Daily Log _____
_____ ave.

Case Studies (10%)
_____ #1
_____ #2
_____ ave.

Behavior (10%)
Daily Evals
_____ ave.

Competencies (50%)

Patient Data (9)
- Chest Assessment (2)
- Patient Assessment (2)
- CXR Interpretation (2)

Suction Procedures (4)
- Endotracheal Suctioning
- Nasotracheal Suctioning
- Tracheal Suctioning
- Inline Suction (2)

Oxygen Therapy (9)
- Nasal Cannula (3)
- Simple Mask
- Partial Rebreather
- Non-Rebreather (1)
- Air Entrainment Mask (1)
- Pulse Oximetry (3)
- High Flow Nasal Cannula/Vapotherm
- Transport with Oxygen

Endotracheal Tube/Tracheostomy Care (6)
- Securing Artificial Airway
- Tracheostomy Care (1)
- Heat/Moisture Exchanger (3)
- Intubation
- Extubation
- Cuff Management

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

Ventilator Care (5)
- Ventilator Setup
- Routine Ventilator Check
- Ventilator Parameter Change
- Ventilator Graphics Analysis
- Capnography

Aerosol Drug Administration (5)
- Metered Dose Inhaler/Inline MDI
- Dry Powder Inhaler
- SVN/Inline SVN (3)

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

Non-Invasive Positive Pressure Ventilation
- Non-Invasive Ventilator Setup
- Non-Invasive Ventilator Check

Hyperinflation Therapy (1)
- Incentive Spirometry
- IPPB

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

Resuscitation (1)
- Setup and Ventilation via ET tube
- Setup and Ventilation via Mask
- Adult/Pedi CPR Airway and Ventilation
- Adult/Pedi CPR Compressions

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

Patient Transports (1)
- Manual Ventilation during Transport
- Transport Ventilation Setup

Physician Contact (8)

Pulmonary Diagnostics (6)
- Peak flow (1)
- Bedside Spirometry
- Spirometry (1)
- N_2 washout/He dilution
- Diffusion Study
- Plethysmography (1)
- PFT Quality Assurance
- ABG Sampling (1)
- ABG Analysis (1)
- ABG Analyzer QA
- Arterial Line Sampling

ICU Performance Level (1)
- 2/3 FTE

Total _____/62 competencies; Percentage _____ X 50 = Task score of _____

To get credit, the competency must be graded as satisfactory.
Competencies may come from Adult or Pedi ICU/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)