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

DataARC.ws

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-aDO2
15. Calculate flow
16. Calculate I:E ratio
17. Calculate shunt
18. Calculate VD/VT
19. Calculate PaCO₂ change
20. Calculate FiO₂ 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:

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:

<table>
<thead>
<tr>
<th>Deduction</th>
<th>Data Arc Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>No deduction</td>
<td>176+</td>
</tr>
<tr>
<td>10% deduction</td>
<td>168.5 – 175.9</td>
</tr>
<tr>
<td>20% deduction</td>
<td>160.9 – 168.4</td>
</tr>
<tr>
<td>30% deduction</td>
<td>≤160.9</td>
</tr>
</tbody>
</table>

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.

Instructor Information:
Name: Bob Weidmann, M.Ed., RPFT, RRT-NPS, RCP
Office Location: A34 AMS
Office Telephone: 432/685-5549
Home Telephone: 432/697-4725
Cell Telephone: 432/853-6403
E-Mail Address: rweidmann@midland.edu
Office Hours: M/F clinical 8-10:30
              W 1-3
              T/R 8-10:30; 3-4:30
Division Dean: Dr. Carmen Edwards, Ed.D, MSN, RN
Division Secretary: Karen Harris
Division Office Location and Telephone: 208 DHS, 685-4600
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 iniminate 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.

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**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.
Clinical V

Student ________________________________  Final Grade _______________

50% Competencies ________
10% Participation ____________
10% Behavior ________________
10% Case Studies _____________
20% Final ____________________
Total _______________________

CPR expiration date ____________

Participation (10%)

_____ Abstracts ______
_____ Daily Log ________
_____ 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)

Endotracheal Tube/Tracheostomy Care (6)

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

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

Ventilator Care (5)

Ventilator Setup
Routine Ventilator Check
Ventilator Parameter Change
Ventilator Graphics Analysis
Capnography

Aerosol/Humidity Therapy (2)

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

Aerosol Drug Administration (5)

Metered Dose Inhaler/Inline MDI
Dry Powder Inhaler
SVN/Inline SVN (3)

Ventilator Care (5)

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)
N₂ 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)
This course syllabus and licensure eligibility notification have been received by and explained to me. I have read, understand 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.
Behavior (From Daily Evaluations)

Aug 27
31

Sep 3 Labor Day Holiday
7
10
14
17 Class day as we will be in the Sim Lab on Wednesday this week
21
24
28 ACLS

Oct 1
5 ACLS
8
12
15-19 BaylorScott&White
22-26 BaylorScott&White
29

Nov 2
5
9
12 Class day as we will be in the Sim Lab on Wednesday this week
16
19
23 Thanksgiving Holiday
26
30

Dec 3
7 FINAL TMC