Course Description: A study of acute care, monitoring, and management as applied to the neonatal and pediatric patient.

Texts, References, and Supplies:


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. Describe the embryologic development of the cardiopulmonary system
2. Describe postnatal cardiopulmonary development
3. Discuss assessment of fetal growth and development
4. Identify stages of labor and delivery
5. Describe abnormal labor and delivery
6. Explain adaptation to extrauterine life
7. Explain techniques of resuscitation and stabilization
8. Discuss anatomic and physiologic differences between the adult and infant
9. Explain PARA
10. Differentiate between Dubowitz and Ballard gestational age assessments
11. Discuss neonatal physical assessment
12. Discuss neonatal neurologic examination
13. Discuss history of the pediatric patient
14. Discuss the physical exam of the pediatric patient
15. Explain neonatal pulmonary function testing
16. Explain pediatric pulmonary function testing
17. Describe airway clearance techniques
18. Describe performance of CPT
19. Discuss pediatric humidity/aerosol delivery
20. Describe suctioning techniques
21. Explain neonatal/pediatric oxygen therapy
22. Discuss thermoregulation
23. Discuss developmental needs of the high-risk neonate
24. Discuss fluid and electrolyte balance in the newborn
25. Discuss neonatal jaundice
26. Discuss necrotizing enterocolitis (NEC)
27. Describe neonatal/pediatric pharmacology
28. Explain assessment of oxygenation
29. Explain assessment of ventilation
30. Discuss assessment of acid/base balance
31. Describe umbilical catheterization
32. Discuss neonatal lung diseases
33. Discuss causes of persistent perinatal illness in neonates
34. Discuss pediatric diseases requiring respiratory care
35. Explain CXR interpretation in neonatal/pediatric patients
36. Explain concepts of neonatal/pediatric mechanical ventilation
37. Discuss management of the patient-ventilator system
38. List common neonatal/pediatric ventilators
39. Discuss special procedures for neonatal/pediatric patients
40. Discuss special ventilatory techniques for neonatal/pediatric patients
41. Describe perinatal transport
42. Describe perinatal home care
43. Explain care of the parents

**Student Contributions and Class Policies:**

Each student will spend at least 6 hours per week preparing for class. Attendance is critical in this class. The college attendance policy will be followed.

**All classroom performance and behavior will be considered academic.**

**Evaluation of Students:**

A minimum of four (4) tests will be given including a comprehensive final (unless otherwise designated by the instructor). The final exam will carry the same weight as other exams. Test questions will come from lecture, reading assignments and homework assignments. Most, if not all test questions will be objective in nature.

1. Tests (minimum of four) 90%
   Weekly Worksheets averaged together will also count as a Test
2. Attendance, participation, and attitude 10%

**Total 100%**

**Course Schedule:**

The class meets for 3 lecture hours twice each week for 6 weeks.
Instructor's Information

Name: Bob Weidmann, M.Ed., RRT, RPFT, RRT-NPS, 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/Wednesday 1:30 – 4:30 pm
Tuesday/Thursday ** 8:30 – 11:00 am
** clinical site

Division Dean and Division Secretary Names: Dr. Carmen Edwards and Karen Harris
Division Office Location and Telephone: 206 DFHS, 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 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 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 o llame al 1 (800) 421-3481.

Revised: 5/18
RSPT 2353  Neonatal/Pediatric Cardiopulmonary Care

The above named course syllabus and licensure eligibility notification, has been received by, and explained to me. I have read, understand, and will adhere to the same.

Student's signature

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Date

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