

Neonatal/Pediatric Syllabus 1
Midland College
Syllabus
RSPT 2353
Neonatal/Pediatric Cardiopulmonary Care
Lecture/Lab
(3-0-0)

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

Texts, References, and Supplies: Aloa, "Respiratory Care of the Newborn and Child." 2nd edition. Lippincott, Williams & Wilkins. 1997.

Des Jardins, "Clinical Manifestations and Assessment of Respiratory Disease." 7th Edition, Elsevier. 2016.

Parreta, J. S. Neonatal and Pediatric Respiratory Care: A patient case method. F.A. Davis. 2014.

Walsh, Brian K. "Neonatal and Pediatric Respiratory Care." 5th Edition. Elsevier. 2019.

Whitaker, "Comprehensive Perinatal and Pediatric Respiratory Care." 3rd Edition, Delmar. 2001.

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

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.

Class Policies:

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.

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://wdcrobcop01.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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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.

Division Information

Division Dean: Dr. Carmen Edwards, DNP, MSN, RN
Division Secretary: Karen Harris, CPS
Division Office Location: 206 DFHS
Division Telephone: 685-4600 or 685-4799
Program Chair: Bob Weidmann, M.Ed., RRT, RPFT, RRT-NPS, RCP
Office Location: AMS A34
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.