



Course Syllabus: Neo/Pedi Procedures & Equipment
College of Health Sciences and Human Services
RESP 3561
Spring Semester 2020

Contact Information

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Course Description

Laboratory course focusing on techniques and procedures used to support the neonatal patient in respiratory failure. Emphasis is placed on correct set-up and application of the procedure and equipment. Topics include nasal CPAP, continuous flow IMV, mean airway pressure therapy, vital signs, chest assessment, APGAR scoring, and resuscitation of the newborn.

Course Meeting Schedule

Thursdays: 1:00pm – 4:00pm

Course Objectives

Course objectives include: Understand gestational development and transitions at birth; understand the components and importance of a prenatal and perinatal history; be able to perform a respiratory physical exam and APGAR score; recognize special problems of infants and how they affect the respiratory system; know basic laboratory values for newborns; be able to interpret chest x-rays; understand pathogenesis, pathophysiology and treatment of common respiratory diseases of infants and children; know the indications and techniques of oxygen therapy, the indications and techniques of CPAP administration, the indications and techniques of mechanical ventilation in infants, the guidelines for infant resuscitation according to current Neonatal Resuscitation Program standards, indications and technique for infant intubation and extubation, indications and technique for infant chest physical therapy, the indications and techniques of high frequency mechanical ventilation in infants, and the pharmacology and administration of surfactants in infants; complete the American Academy of Pediatrics Neonatal Resuscitation Program (NRP).

Textbook & Instructional Materials

1. Neonatal Resuscitation, 7th Ed.
2. Neonatal and Pediatric Respiratory Care, 5th Edition, Walsh, ISBN-978-0-323-47947-9

Student Handbook

Refer to: [Student Handbook 2019-2020](#)

Academic Misconduct Policy & Procedures

Academic Dishonesty: Cheating, collusion, and plagiarism (the act of using source material of other persons, either published or unpublished, without following the accepted techniques of crediting, or the submission for credit of work not the individual's to whom credit is given). Additional guidelines on procedures in these matters may be found in the Office of Student Conduct. Research papers and projects must be original work for each course assignment. The faculty will not accept a submission that has been or is being submitted for another course. No Exceptions!

Assignment Grading

Assignments	Percentage of Total Grade
Pop Quizzes	30%
Midterm (NRP Mega Code)	15%
ICE	10%
Lab Competencies	30%
Final Lab Competency	15%

Grading Scale

Letter Grade	Percentage Grade
A	90-100%
B	80-89%
C	75-79%
D	70-74%
F	Less than 69%

A minimum grade of 75, or a C, is required in all respiratory courses. All assignments must be completed by 11:59pm on the due date.

Pop Quizzes

There will be several pop quizzes throughout the semester. These quizzes may be given at any time and on any day during class. Quizzes are timed (max of 10 minutes). If you are late to class and a quiz has already started, you may begin working on the quiz, but will not have additional time added. In addition, missed quizzes will result in a zero and cannot be made up. Quizzes will account for 10% of your final grade.

Lab Midterm

We will have an NRP Mega Code check-off competency at midterm. The Mega Code must be passed in order to successfully complete this lab course. In order to progress to your NICU clinical rotations, you must be certified in NRP. Without this certification, you will not be able to progress in the program. If you initially fail the Mega Code, you will be allowed to reattempt 1 time with a deduction of at least 15 points. If you fail the second Mega Code attempt, you will receive a 0 for the check off. You must successfully complete this component to pass the Lab course. You will have a max of 2 attempts.

ICE

ICE is the Interdisciplinary Communication Event for the Gunn College of Health Sciences and Human Services. The purpose of ICE is to allow students the opportunity to work collaboratively with other disciplines in a format that is similar to what will be encountered within a hospital environment. This will account for 10% of your final grade for this course. You will be required to participate in the event on Friday, April 17th from 7:45am – 1:00pm. If for any reason you are not able to attend the event, you will be required to write a 20 page paper covering the importance of interdisciplinary education within the health sciences and will be graded as the 10% of the final grade in place of the ICE.

Lab Competencies

There will be several lab competency check offs that we will complete during the semester. These will cover the information that you have learned during the labs. All competencies must be passed in order to successfully complete this lab

course. If you initially fail a competency, you will be allowed to reattempt 1 time with a deduction of at least 15 points. If you fail the second competency attempt, you will receive a 0 for the check off. You must successfully complete each competency to pass the Lab course. You will have a max of 2 attempts for the Final Lab Competency.

NRP Exam

Passing the online NRP exam will be mandatory to pass this Lab. In order to progress to your NICU clinical rotations, you must be certified in NRP. Without this certification, you will not be able to progress in the program.

Late Work

Please make note of all deadlines and adhere to them. Anything not completed and submitted on time will be graded as a zero. This includes quizzes, mega-codes, check-offs, and competencies. Please talk with your professor, prior to the due date, regarding circumstances that may prevent you from completing an assignment on time as instructed.

Services for Students With Disabilities

In accordance with Section 504 of the Federal Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990, Midwestern State University endeavors to make reasonable accommodations to ensure equal opportunity for qualified persons with disabilities to participate in all educational, social, and recreational programs and activities. After notification of acceptance, students requiring accommodations should make application for such assistance through Disability Support Services, located in the Clark Student Center, Room 168, (940) 397-4140. Current documentation of a disability will be required in order to provide appropriate services, and each request will be individually reviewed. For more details, please go to the [MSU Texas Disability Support Services Site](#).

College Policies

Campus Carry Rules/Policies

Refer to: [Campus Carry Rules and Policies](#)

Smoking/Tobacco Policy

College policy strictly prohibits the use of tobacco products in any building owned or operated by WATC. Adult students may smoke only in the outside designated-smoking areas at each location.

Alcohol and Drug Policy

To comply with the Drug Free Schools and Communities Act of 1989 and subsequent amendments, students and employees of Midwestern State are informed that strictly enforced policies are in place which prohibits the unlawful possession, use or distribution of any illicit drugs, including alcohol, on university property or as part of any university-sponsored activity. Students and employees are also subject to all applicable legal sanctions under local, state and federal law

for any offenses involving illicit drugs on University property or at University-sponsored activities.

Grade Appeal Process

Students who wish to appeal a grade should consult the Midwestern State University [Undergraduate Catalog](#)

Course Schedule:

On the next page, you will find the course schedule. I suggest printing a copy of the course schedule to help you stay organized and submit your assignment by the deadlines.

Please note that changes in the course syllabus, assignments, and schedule may be made at the discretion of the professor.

Course Schedule

Date	Activities
January 23 LAB 1	Review Syllabus The Basics PowerPoint Station 1: Aerosol/MDI/O2 Delivery Station 2: CPT/Bronchial Hygiene Station 3: Suctioning Station 4: Continuous Nebulizers
January 30 LAB 2	NRP Station 1: Initial Steps After Delivery Station 2: Positive Pressure Ventilation Station 3: Intubation Station 4: ETT Stabilization/Meconium/LMA
February 6 LAB 3	NRP Station 1: Compressions Station 2: Medications Station 3: Preterm Babies Station 4: Terminating Efforts/Stillborn
February 27 LAB 4	NRP Midterm Mega Code Competency
March 5 LAB 5	Station 1: CPAP Station 2: Capillary Blood Gases Station 3: UAC/UVC Station 4: High Flow
April 2 LAB 6	Ventilator Set-Up and Vent Checks Station 1: Servo Station 2: 840 Station 3: Drager Station 4: Avia
April 16 LAB 7	Ventilator Changes and Troubleshooting Station 1: Servo Station 2: 840 Station 3: Drager Station 4: Avia
May 7 LAB 8	High Frequency Ventilation
May 14 LAB 9	Final Lab Competency