



Course Syllabus: Neo/Pedi Procedures & Equipment
College of Health Sciences and Human Services
RESP 3561
Spring Semester 2021

Contact Information

Instructors:

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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 2020-2021](#)

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Dishonesty: Cheating, collusion, and plagiarism (the act of using source material of other persons, either published or unpublished, without following the accepted techniques of crediting, or the submission for credit of work not the individual's to whom credit is given).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	25%
NRP Mega Code	15%
Competency Sign-Offs	10%
Vent Competency 1	15%
12 Vent Checks	10%
Final Lab Competency	25%

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 30% of your final grade.

NRP Mega Code Competency

We will have an NRP Mega Code check-off competency. 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.

12 Vent Checks

After the first Lab Day covering the four ventilators, you will be required to complete 3 vent checks per vent for a total of 12. These are to all have different settings and modes that you may choose. The purpose of this is to get you more familiar with setting up and adjusting vents in the Neo mode. These are due by March 5th at 5:00pm.

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](#)

Lab Groups:

Group 1	Group 2	Group 3	Group 4
Acelynn	Jacky	Madison	Brynna
Anthony	Emma	Uriel	Maranda
Khadijah	Geordan	Fatima	Ashley
Gaby	Melanie	Zhante	Christian
Karly	Jessica	Mark	Reagan
	Malorie		Huldah

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 14 LAB 1	1:00 – 2:00 – Review Syllabus, Initial Steps, PPV 2:00 – 2:30 – Station 1 – Initial Steps and PPV 2:30 – 3:00 – Station 2 – Intubation 3:00 – 4:00 – Q/A & Student Practice Time			
January 21 LAB 2	1:00 – 2:00 – Review Compressions and Medications 2:00 – 2:30 – Station 1: Compressions 2:30 – 3:00 – Station 2: Medications 3:00 – 4:00 – Q/A & Student Practice Time			
January 28 LAB 3	1:00 – 1:30 – Patient 1: Judie 1:30 – 2:00 – Patient 2: Owen 2:00 – 2:30 – Patient 3: Fino 2:30 – 3:00 – Patient 4: Case 3:00 – 4:00 – Q/A & Student Practice Time			
February 4 LAB 4	NRP Mega Code	NRP Mega Code	NRP Mega Code	NRP Mega Code
1:00 – 1:20	Uriel	Acelynn	Melanie	Jacky
1:20 – 1:40	Khadija	Maranda	Karly	Jessica
1:40 – 2:00	Fatima	Gaby	Mark	Madison
2:00 – 2:20	Anthony	Geordan	Reagan	Malorie
2:20 – 2:40	Brynna	Zhante	Huldah	Christian
2:40 – 3:00	Emma	Ashley		
February 11 LAB 5	The Basics PowerPoint Station 1: Aerosol/MDI/O2 Delivery Station 2: CPT/Bronchial Hygiene Station 3: Suctioning Station 4: Continuous Nebulizers			
February 18 LAB 6	Ventilator Set-Up and Vent Checks Station 1: Vent #1 Station 2: Vent #2 Station 3: Vent #3 Station 4: Vent #4			
February 25 LAB 7	Vent Competency	Vent Competency	Vent Competency	Vent Competency
1:00 – 1:20	Gaby	Ashley	Khadijah	Karly
1:20 – 1:40	Geordan	Christian	Maranda	Reagan
1:40 – 2:00	Jessica	Emma	Mark	Huldah
2:00 – 2:20	Uriel	Malorie	Anthony	Brynna
2:20 – 2:40	Zhante	Jacky	Acelynn	Madison
2:40 – 3:00	Melanie	Fatima		
March 4 LAB 8	Ventilator Changes and Troubleshooting Station 1: Vent #1 Station 2: Vent #2 Station 3: Vent #3 Station 4: Vent #4			
March 11 LAB 9	Final	Final	Final	Final
1:00 – 1:15	Ashley		Anthony	

Date	Activities			
1:15 - 1:30	Emma	Ashley	Fatima	Anthony
1:30 - 1:45	Malorie	Emma	Brynna	Fatima
1:45 - 2:00	Christian	Malorie	Madison	Brynna
2:00 - 2:15	Reagan	Christian	Jessica	Madison
2:15 - 2:30	Geordan	Reagan	Uriel	Jessica
2:30 - 2:45	Zhante	Geordan	Maranda	Uriel
2:45 - 3:00	Acelynn	Zhante	Khadijah	Maranda
3:00 - 3:15	Jacky	Acelynn	Mark	Khadijah
3:15 - 3:30	Karly	Jacky	Melanie	Mark
3:30 - 3:45	Huldah	Karly	Gaby	Melanie
3:45 - 4:00		Huldah		Gaby