



**Course Syllabus: Neonatal Pediatric Respiratory Care**  
**College of Robert D. & Carol Gunn College of Health Sciences and Human Services**  
**RESP 3553 Section DX2**  
**Fall Block B October 21 – December 16, 2023**

**Contact Information**

Instructor: Lauren Hailu  
E-mail: [lauren.hailu@msutexas.edu](mailto:lauren.hailu@msutexas.edu)

**Course Description**

The focus of this course is on the advanced theoretical application of respiratory care to the pediatric and newborn patient. Topics include development of the pulmonary and cardiovascular systems, patient assessment, intrinsic lung diseases, congenital heart diseases, SIDS and apnea, applied pharmacotherapy, surfactant replacement therapy, gas therapy, ECMO and ventilator support techniques.

**Textbook & Instructional Materials**

Walsh, Brian. Neonatal and Pediatric Respiratory Care, 5<sup>th</sup> Edition. ISBN: 9780323479479

**Student Handbook**

Refer to: [Student Handbook-2023-2024](#)

**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Dishonesty: Cheating, collusion, and plagiarism (the act of using source material of other persons, either published or unpublished, without following the accepted techniques of crediting, or the submission for credit of work not the individual's to whom credit is given).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. [Office of Student Conduct](#)

**Grading**

Course Grade – A minimum of 75 (C) is required in all respiratory courses. Failure to attain a minimum of C will prevent the student from progressing in the program.

Table 1: Graded items

| Assignments                               | Weight |
|---|--------|
| Online Journal (5 entries for 6 pts each) | 20%    |

| Assignments                          | Weight |
|--------------------------------------|--------|
| Quizzes (4 quizzes for 100 pts each) | 50%    |
| Article Assignment                   | 5%     |
| Neo/Pedi Research Paper              | 25%    |

Table 2: Approximate grading scale

| Grade | Points       |
|-------|--------------|
| A     | 90-100       |
| B     | 80-89        |
| C     | 75-79        |
| D     | 60-74        |
| F     | Less than 59 |

### Online Journal

The class journal is for you to post your comments, assessments, insights, or questions on the readings for that week. This concept is slightly different from your typical discussion board where the professor will post a question and you answer it in your own words. This type of journal requires that you reflect on the week's reading assignments and make a substantial post about a topic that interests you specifically. However, this style also allows each student the freedom to discuss topics they find interesting. You may choose to comment on an assigned reading chapter, an article that pertains to that week's chapter reading, or on the chapter questions presented within the text. Choose a topic that interests you that you want to elaborate on. You can see the weeks that will include a journal assignment on the course schedule within the syllabus.

During the weeks that include journal assignments, the **\*initial post is due Wednesday at 11:59 pm. \*Two substantial responses must be made within the discussion board by Sunday at 11:59 pm.**

Each journal assignment has a max point value of 6 points. 2 points will be given for your initial post and 2 points will be given for each of your two responses. Online journal is 20 % of your grade.

In addition to the suggestions above, consider these questions when posting your comments:

- What did you learn?
- What do you now know that you did not last week?
- What do you agree or disagree with?
- How can you apply this information to your clinical practice? What do you conclude?

In all discussion boards students are expected to:

1. Raise thoughtful discussions.
2. Incorporate content from readings.

3. Build on the ideas of others.
4. Synthesize across readings and discussions.
5. Expand the class' perspective.
6. Appropriately challenge assumptions and perspectives.
7. Use citations to support posts in proper APA format.
8. Initial post should be at least 200 words (approximately ½ page); read and respond to two classmates posts as appropriate using 3, 4, and 6 from above as guiding elements. (Avoid “I agree” or “good post” type of comments.)

### **Quizzes**

There are four in depth quizzes covering specified material given from your textbook readings and power point slides. You will have approximately 4 minutes per question, for a total of 100 minutes per quiz. Each quiz is worth 12.5% of your total grade, therefore your quizzes combined are worth 50% of final grade. Quizzes may consist of true/false, multiple choice, short answer, or essay questions. Quiz dates are listed in the course schedule.

### **Article Assignment**

Select a topic covered within your reading assignments that interests you. Find a current (2018-2023) scholarly article that discusses this topic. Submit a link to the article as well as a brief (1/2 to 1 page) summary of the article. This is not to be a long and difficult task. I simply want you to find current information that you feel is important to our profession and would be beneficial to other therapists. This is due **\*Sunday November 19<sup>th</sup> at 11:59 pm.**

### **Neo/Pedi Research Paper**

This paper will consist of 3-5 pages of material, in addition to your title page and reference page, covering a specific topic within the specialty field of Neonatal and Pediatric Respiratory Care. The topics for the paper must be one of the following:

1. Respiratory Therapists role in decreasing the length of stay in the NICU or PICU
2. Innovative Trends in treatment strategies for the Neonatal or Pediatric populations
  - Examples may include surfactant administration methods using LISA or MIST, changed in Neonatal Resuscitation (meconium, gestational age...), new trends in mechanical ventilation (NAVA, non-invasive...).
3. Compare and contrast the current trends and outcomes associated with decisions to vaccinate or not vaccinate neonatal or pediatric patients.

This paper will be based on research you perform regarding the given topic. A minimum of 5 current (2018-2023) scholarly resources are required for your research. This paper must follow APA guidelines and an APA style guideline resource is provided to you within the additional learning tools module. An example of a typical APA style research paper can be found in the additional learning tools module as well. I do expect well written papers that are at a college level of writing. Research papers 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. A rubric for the paper will be used for a grading guideline. This paper will be due no later than **\*Sunday December 3 at 11:59 pm.**

### **Extra Credit**

There will be no extra credit offered for this course.

### **Late/Makeup Work or Test**

Anything not completed and submitted on time will be subject to a "0" for that specific grade. Please talk with your professor, prior to the due date, regarding circumstances that may prevent you from completing an assignment.

### **Important Dates**

Last day for term schedule changes: August 31. Check date on [Academic Calendar](#).

Deadline to file for graduation: October 2. Check date on [Academic Calendar](#).

Last Day to drop with a grade of "W:" November 21. Check date on [Academic Calendar](#).

Refer to: [Drops, Withdrawals & Void](#)

### **Desire-to-Learn (D2L)**

Extensive use of the MSU D2L program is a part of this course. Each student is expected to be familiar with this program as it provides a primary source of communication regarding assignments, examination materials, and general course information. You can log into [D2L](#) through the MSU Homepage. If you experience difficulties, please contact the technicians listed for the program or contact your instructor.

### **Online Computer Requirements**

Taking an online class requires you to have access to a computer (with Internet access) to complete and upload your assignments. It is your responsibility to have (or have access to) a working computer in this class. ***\*Assignments and tests are due by the due date, and personal computer technical difficulties will not be considered reason for the instructor to allow students extra time to submit assignments, tests, or discussion postings.*** Computers are available on campus in various areas of the buildings as well as the Academic Success Center. ***\*Your computer being down is not an excuse for missing a deadline!!*** There are many places to access your class! Our online classes can be accessed from any computer in the world which is connected to the internet. Contact your instructor immediately upon having computer trouble. If you have technical difficulties in the course, there is also a student helpdesk available to you. The college cannot work directly on student computers due to both liability and resource limitations however they are able to help you get connected to our online services. For help, log into [D2L](#).

## **Instructor Class Policies**

Class participation is an integral part of this online course. There are numerous activities that require each student to post opinions from the assigned readings, research, or in response to the discussion of others. You are expected to participate actively in and contribute to the learning experience in this course. Participation means providing substantive comments, questions and contributions that advance the learning process for you and/or other learners in the course. Participation may include responding to questions and issues posed by other learners. Non-substantive comments, irrelevant comments, and comments of the nature "I agree" or "I disagree" (unless the latter two are elaborated upon to make them substantive) do not count towards meeting the participation requirement. You are expected to participate each academic week. **\*All assignments must be completed by 11:59 pm of the due date.**

## **Change of Schedule**

A student dropping a course (but not withdrawing from the University) within the first 12 class days of a regular semester or the first four class days of a summer semester is eligible for a 100% refund of applicable tuition and fees. Dates are published in the Schedule of Classes each semester.

## **Refund and Repayment Policy**

A student who withdraws or is administratively withdrawn from Midwestern State University (MSU) may be eligible to receive a refund for all or a portion of the tuition, fees and room/board charges that were paid to MSU for the semester. HOWEVER, if the student received financial aid (federal/state/institutional grants, loans and/or scholarships), all or a portion of the refund may be returned to the financial aid programs. As described below, two formulas (federal and state) exists in determining the amount of the refund. (Examples of each refund calculation will be made available upon request).

## **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 [Disability Support Services](#).

## **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.

#### Campus Carry

Effective August 1, 2016, the Campus Carry law (Senate Bill 11) allows those licensed individuals to carry a concealed handgun in buildings on public university campuses, except in locations the University establishes has prohibited. The new Constitutional Carry law does not change this process. Concealed carry still requires a License to Carry permit, and openly carrying handguns is not allowed on college campuses. For more information, visit [Campus Carry](#).

#### Active Shooter

The safety and security of our campus is the responsibility of everyone in our community. Each of us has an obligation to be prepared to appropriately respond to threats to our campus, such as an active aggressor. Please review the information provided by MSU Police Department regarding the options and strategies we can all use to stay safe during difficult situations. For more information, visit [MSUReady – Active Shooter](#). Students are encouraged to watch the video entitled “*Run. Hide. Fight.*” which may be electronically accessed via the University police department’s webpage: [“Run. Hide. Fight.”](#)

#### **Grade Appeal Process**

Update as needed. Students who wish to appeal a grade should consult the Midwestern State University [MSU Catalog](#)

#### Notice

Changes in the course syllabus, procedure, assignments, and schedule may be made at the discretion of the instructor.

#### **Course Schedule**

| Week or Module                   | Activities/Assignments/Exams   | Due Date  |
|----------------------------------|--|---|
| <p>Week 1<br/>10/21 to 10/29</p> | <p>Review Syllabus</p> <p>Introductions</p> <p>Quiz #1 (Chapters 4,5,6,8,9)</p> <p>Read Chapters<br/>4 (Exam and Assessment of the Neo/Pedi Pt)</p> <p>5 (PFT and Bedside Pulmonary Mechanics)</p> <p>6 (Radiographic Assessment)</p> <p>8 (Blood Gas Analysis and CV Monitoring)</p> <p>9 (Noninvasive Monitoring in Neo and Pedi Care)</p> | <p>Introductions due Sunday October 29<sup>th</sup> at 11:59 pm</p> <p>Quiz #1 Closes October 29<sup>th</sup> at 11:59 pm</p>   |
| <p>Week 2<br/>10/30 to 11/5</p>  | <p>Discussion #1</p>   | <p>Initial post due Wednesday November 1<sup>st</sup> at 11:59 pm</p> <p>Two responses due Sunday November 5<sup>th</sup> at 11:59pm</p>  |
| <p>Week 3<br/>11/6 to 11/12</p>  | <p>Discussion #2</p> <p>Quiz #2 (Chapters 15,16,17)</p> <p>Read Chapters<br/>15 (CPAP)</p> <p>16 (NIV MV of the Infant and Child)</p> <p>17(MV of the Neo and Pedi Pt)</p>   | <p>Initial post due Wednesday November 8<sup>th</sup> at 11:59 pm.</p> <p>Two responses due Sunday November 12<sup>th</sup> at 11:59 pm.</p> <p>Quiz #2 Closes Sunday November 12<sup>th</sup> at 11:59 pm.</p> |

| Week or Module           | Activities/Assignments/Exams  | Due Date   |
|--------------------------|---|--|
| Week 4<br>11/13 to 11/19 | Article Assignment<br><br>Read Chapters<br>22 (Neo Pulm Disorders)<br><br>23 (Surgical Disorders and Resp Care)<br><br>24 (Congenital Cardiac Defects)                    | Article Assignment due by Sunday November 19 <sup>th</sup> at 11:59 pm   |
| Week 5<br>11/20 to 11/26 | Discussion #3<br><br>Quiz #3 (Chapters 22,23,24,26,27,28)<br><br>Read Chapters<br>26 (Pedi Airway and Parenchymal Disease)<br><br>27 (Asthma)<br><br>28 (Cystic Fibrosis) | Initial post due Wednesday November 22 at 11:59 pm.<br><br>Two responses due Sunday November 26 <sup>th</sup> at 11:59 pm.<br><br>Quiz #3 Closes Sunday November 26 <sup>th</sup> at 11:59 pm. |
| Week 6<br>11/27 to 12/3  | Research paper  | Research paper due by Sunday December 3 at 11:59 pm.   |
| Week 7<br>12/4 to 12/10  | Discussion #4<br><br>Read Chapters<br>29 (Acute Resp Distress Syndrome)<br><br>31 (Pediatric Trauma)<br><br>32 (Disorders of the Pleura)                                  | Initial post due Wednesday December 6 <sup>th</sup> at 11:59 pm.<br><br>Two responses due Sunday December 10 at 11:59 pm.  |



| Week or Module           | Activities/Assignments/Exams  | Due Date  |
|--------------------------|---|---|
| Week 8<br>12/11 to 12/16 | Quiz#4 (Chapters<br>29,31,32,33,34,35)<br><br>Read Chapters<br>33(Neuro Disorders)<br><br>34 (Transport of Infants and<br>Children)<br><br>35 (Home Care) | <b>*Quiz #4 closes<br/>Wednesday<br/>December 13 at<br/>11:59pm</b> |