



Course Syllabus: Neonatal Pediatric Respiratory Care

College of Health Sciences and Human Services

RESP 3553 Section 1NX

Fall Block B, October 19, 2019 – December 12, 2019

Contact Information

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Course Description

The focus of this course is on the advance 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.

Course Objectives

Course objectives include: describe the fetal development of the cardiopulmonary system, discuss common respiratory disorders in the neonatal and pediatric patient including pathology, signs and symptoms, and treatments, discuss common therapeutic procedures used in the treatment of neonatal and pediatric patients including indications, proper techniques and contraindications, identify ventilation and oxygenation techniques used in the neonatal and pediatric patient, discuss the use of common conventional therapies used in the neonatal and pediatric patient with new and specialized therapies, and demonstrate ability to apply research findings to clinical practice issues.

Textbook & Instructional Materials

Walsh, Brian. Neonatal and Pediatric Respiratory Care, 5th Edition. ISBN: 9780323479479.

Student Handbook

Refer to: [Student Handbook 2018-2019](#)

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Dishonesty: Cheating, collusion, and plagiarism (the act of using source material of other persons, either published or unpublished, without following the accepted techniques of crediting, or the submission for credit of work not the individual's to whom credit is given).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
Journals/Discussions Board	20%
Neo/Pedi Research Paper	25%
Article Assignment	5%
Quizzes	50%

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. Failure to attain a minimum grade of C will prevent the student from progressing in the program. If a student fails to attain a minimum grade of C in 2 courses, the student will be dismissed from the program. All assignments must be completed by 11:59pm on the due date.

Discussion Boards

The class discussion board or journal is for you to post your comments, assessments, insights or questions on the readings for that week. This concept is slightly different than your typical discussion board where the professor posts 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 interested 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 readings, 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 discussion board/journal assignments, an initial post must be submitted by Wednesday at 11:59pm. Two substantial responses must be made within the discussion board by Sunday

at 11:59pm. 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 2 response posts. Class participation is an integral part of this online course. There are numerous activities that require each student to post opinions from the readings, research, or in response to the discussion by 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 of “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.

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 with 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 raise thoughtful questions, incorporate content from readings, build on the ideas of others, synthesize across readings and discussions, expand the class' perspective, appropriately challenge assumptions and perspectives, use citations to support posts in proper APA format.

Initial posts need to be at least 200 words. You must read and respond to two classmates' posts, which need to be at least 100 words each.

Neo/Pedi Research Paper

This paper will consist of 3-5 pages of material, in addition to your title page & reference page, covering a specific topic within the specialty field of Neonatal and Pediatric Respiratory Care. The topics for the paper must be from one of the following: Respiratory Therapists role in Decreasing Length of Stay in NICU/PICU; Compare and Contrast the Current Trends Associated with the Vaccinations or the Lack There of in the Neonatal/Pediatric Patient; Innovative Trends in Treatment strategies for the NICU/PICU Population (For Example: Nebulized Surfactant, Meconium Intubation Changes, etc.). This paper will be based off of research you perform in regards to the given topics. A minimum of 5 current (2009-2019) scholarly resources are required for your research. I do expect well written papers that are at a collegiate level of writing. This paper must follow APA guidelines and an APA style guideline resource is provided to you within the additional resources module. An example of a typical APA style research paper can be found in the additional resources module as well. Use in-text citations as well. Another great APA resource can be found on the [Purdue OWL website](#). A rubric for the paper will be used for a grading guideline. This paper will be due no later than December 2nd at 11:59pm.

Article Assignment

Select a topic covered within your reading assignments that interests you. Find a current (2009-2019) 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 meant 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. The Article Assignment is due by November 17th at 11:59pm.

Quizzes

There are several in-depth quizzes covering specified material given from your readings throughout the semester. Quizzes may consist of true/false, multiple choice, short answer or essay questions. Each quiz is worth 12.5% of your total grade, therefore your quizzes combined are worth 50% of your total grade. Please note the specific due dates for your quizzes. The 3rd quiz is due by Monday, December 2nd because of the Thanksgiving Holiday during the previous days (Thanksgiving break is Thursday, November 28 – Sunday December 1st). The final quiz is due on Thursday, December 12th.

Late Work/Missed Assignments

D2L is designed so that students are locked out of the system after the deadline has passed. Please make note of all deadlines and adhere to them. Anything not completed and submitted on time will be graded as a zero. Please talk with your professor, prior to the due date, regarding circumstances that may prevent you from completing an assignment on time. All assignments must be completed by 11:59pm on the due date.

Important Dates

Last Day to drop with a grade of "W:" November 20, 2018.

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. 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](#).

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 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 <http://www.mwsu.edu/student-life/disability>.

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:

Below, you will find the course schedule. The same content will be in each D2L module as well. 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

Week or Module	Activities/Assignments/Quizzes	Discussion Board	Due Date
Week 1 10/19 to 10/27	Review Syllabus Read Chapters: 4 (Exam & Assess of the Neo/Pedi Patient) 5 (PFT and Bedside Pulmonary Mechanics) 6 (Radiographic Assessment)	First Post by Wednesday 11:59pm Response posts by Sunday 11:59pm	10/27 at 11:59pm
Week 2 10/28 to 11/3	Read Chapters: 8 (Blood Gas Analysis and CV Monitoring) 9 (Noninvasive Monitoring in Neo & Pedi Care) Quiz Covering Chapters 4,5,6,8,9	First Post by Wednesday 11:59pm Response posts by Sunday 11:59pm	11/3 at 11:59pm
Week 3 11/4 to 11/10	Read Chapters: 15 (CPAP) 16 (NIV MV of the Infant and Child) 17 (MV of the Neo and Pedi Pt) Quiz Covering Chapters 15,16,17	First Post by Wednesday 11:59pm Response posts by Sunday 11:59pm	11/10 at 11:59pm
Week 4 11/11 to 11/17	Read Chapters: 22 (Neonatal and Pulmonary Disorders) 23 (Surgical Disorders & Resp. Care) 24 (Congenital Cardiac Defects) Article Assignment Due	N/A	11/17 at 11:59pm
Weeks 5 & 6 11/18 to 12/2	Happy Thanksgiving Read Chapters: 26 (Pedi Airway & Parenchymal Disease) 27 (Asthma) 28 (Cystic Fibrosis) Quiz Covering Chapters 22,23,24,26,27,28 RESEARCH PAPER DUE MONDAY, DECEMBER 2nd	First Post by Wednesday 11:59pm Response posts by Monday, 24th 11:59pm	11/24 at 11:59pm for DB 12/2 at 11:59pm for Paper
Weeks 7 12/2 to 12/8	Read Chapters 29 (Acute Resp. Distress Syndrome) 31 (Pediatric Trauma) 32 (Disorders of the Pleura)	First Post by Wednesday 11:59pm Response posts by Sunday 11:59pm	12/8 at 11:59pm
Week 8 12/9 to 12/12	Read Chapters 33 (Neuro Disorders) 34 (Transport of Infants and Children) 35 (Home Care) Quiz Covering Chapters 29,31,32,33,34,35	N/A	12/12 at 11:59pm