



RESP 3553: Neonatal and Pediatric Respiratory Care

Course Syllabus Spring 2026

Gunn College of Health Sciences and Human Services

Professor Contact Information

Dr. Randy Case

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Class Meeting Date and Time:

Tuesdays and Thursdays: 9:30am – 12:00pm

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.

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 the neonatal and pediatric patient 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 newer specialized therapies; demonstrate ability to apply research findings to clinical practice issues.

Textbook & Instructional Materials

Neonatal and Pediatric Respiratory Care, 6th Edition, Walsh, ISBN- 9780323833219

Communication with the Instructor:

Communication will be through the student's Midwestern State University email account. The instructor will respond or at least acknowledge email messages from students within a maximum of five (5) business days when MSU is in session. Beyond standard university holidays and

breaks, the instructor will notify students of any extended periods of time when email contact is not practical (professional meetings, etc.).

Grading:

Table 1: Percentages allocated to each assignment.

Assignments	Percent of Grade
Lecture Exams	55%
Pop Quizzes	15%
Research Literature Review	10%
Comprehensive Final Exam	20%
Total	100%

Table 2: Total percent for final grade.

Grade	Percent
A	90-100%
B	80 to 89%
C	75 to 79%
D	70 to 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.

Assignments:

All assignment submissions made by students in D2L are considered final submissions. It is the student's responsibility to ensure that the correct and complete file has been uploaded. If a student submits an incorrect document, an incomplete draft, or any unintended version, the assignment will be graded as submitted. Students are strongly encouraged to double-check their upload before finalizing the submission.

Additionally, Apple file formats such as *.pages* or *Keynote* files will not be accepted. These formats do not open on MSU computers. All submissions must be uploaded in Microsoft Office formats, such as *.doc*, *.docx*, *.ppt*, or *.xlsx*, or as otherwise specified in the assignment instructions.

Lecture Exams

In-depth exams covering specified material given from your readings and lectures. Examinations may consist of true/false, multiple choice, multi-select, short answer or essay questions.

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.

Research Literature Review

This paper will consist of 3-4 pages of content. This does not include your title or reference pages. The paper will cover a specific topic within the specialty field of Neonatal and Pediatric Respiratory Care. You may choose your topic, but you need to have approval from me on the topic as only one student will be able to research each topic. This paper will be based off of literature reviews you perform on the topic. A minimum of 5 scholarly, peer-reviewed resources (from within the past 5 years) are required for your research. This paper must follow APA guidelines, including in-text citations. 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. I do expect well written papers that are at a collegiate level of writing. A rubric for the paper will be used for a grading guideline. Make sure you submit as a WORD document.

Comprehensive Final Exam

An in-depth comprehensive examination covering the material presented throughout the entire semester. This exam will consist of true/false, multiple choice, multi-select, short answer or essay questions.

Classroom Discussions

For this course, there are open classroom discussions that will be utilized to engage students in the communication and inquiry of different aspects of community and public health. Students are expected to actively participate in these classroom discussions.

Late Work, Make up Work:

Late work is typically not accepted within the course and is subject to a grade of a zero. However, late work may be accepted at the discretion of the instructor, with the exception of the final exam. The final exam must be taken at the schedule time and date. If a student is going to miss an assignment or course activity, it is the student's responsibility to contact the instructor prior to the submission deadline. Communication is key. If late work is accepted by the instructor, a 10% reduction will be taken for each day (weekends and holidays included) after the scheduled assignment or course activity due date.

Important Dates:

Deadline to file for May graduation: February 16th, 2026

Last Day to drop with a grade of "W": April 29th, 2026 by 4:00pm

Refer to: [Drops, Withdrawals, Invalidation, & 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 this class with an online component 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 or tests.** 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!!** 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:

Students are required to participate in class in a respectful manner whether or not the interactions are online or face-to-face. All course assignments must be submitted to D2L in Microsoft format including, Word documents and Power Point or as a PDF. For students without Microsoft software, Microsoft offers students a [free download of Office 365](#).

Disability Support Services:

Midwestern State University is committed to providing equal access for qualified students with disabilities to all university courses and programs, and by law all students with disabilities are guaranteed a learning environment that provides reasonable accommodation of their disability. This guarantee is provided through Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act. The ADA reads: "No qualified individual with a disability shall, by reason of such disability, be excluded from participation in or be denied the benefits of the services, programs, or activities of a public entity, or be subject to discrimination by any such entity." The Director of Disability Support Services serves as the ADA Coordinator and may be contacted at (940) 397-4140, TDD (940) 397-4515, or 3410 Taft Blvd., Clark Student Center 168.

Student Handbook:

Refer to: [Student Handbook](#)

Academic Misconduct Policy & Procedures:

This course adheres to the MSU Code of Conduct. Academic dishonesty, however small, creates a breach in academic integrity. A student's participation in this course comes with the expectation that his/her work will be completed in full observance of the MSU Code of Student Conduct. A student should consult the Student Handbook for answers to any questions about the code.

Students are encouraged to take full advantage of many resources available including Internet sites, handouts, other textbooks & journals, faculty, and peers. This interactive collegial learning environment is conducive to life-long learning.

The components of this course are designed to represent the efforts of each student individually and are NOT to be shared. Submitting someone else's work as your own or improperly cited work constitutes plagiarism. Please see the Midwestern State University Catalog for further discussion of plagiarism. Plagiarism will constitute in an F for the course and the student will be referred to administration for further action. When students submit their efforts for grading, they are attesting they abided by this rule.

Cheating includes, but is not limited to: (1) use of any unauthorized assistance in taking quizzes, tests, or examinations; (2) dependence upon the aid of sources beyond those authorized by the instructor in writing papers, preparing reports, solving problems, or completing other assignments; or (3) the acquisition of tests or other academic materials belonging to the university faculty or staff without permission.

Plagiarism includes, but is not limited to: the use of, by paraphrase or direct quotation without correct citation in the text and on the reference list, the published or unpublished works of another person. *Students may not submit papers and assignments that they have previously submitted for this or other courses. The use of materials generated by agencies engaged in "selling" term papers is also plagiarism. Students are encouraged to review the tutorials and suggested websites for more information about plagiarism.

By enrolling in this course, the student expressly grants MSU a limited right in all intellectual property created by the student for the purpose of this course. The limited right shall include but shall not be limited to the right to reproduce the students work product in order to verify originality and authenticity, and for educational purposes.

College Policies:

Campus Carry Rules/Policy:

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

Smoking/Tobacco Policy:

Refer to: [Tobacco-free Policy](#)

Alcohol and Drug Policy:

Refer to: [Alcohol and Drug Policy](#)

Grade Appeal Process:

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

Course Schedule:

Date	Readings, Lectures, Exams, Assignments
January 20	Chapter 1 & Review Course Syllabus
January 22	Chapter 2, 3, & 4
January 27	Exam 1 (Chapters 1, 2, 3, 4)
January 29	Chapters 5 & 16
February 3	Chapters 6, 7, 8, 17, 19, 20
February 5	Exam 2 (Chapters 5, 6, 7, 8, 16, 17, 19, 20)
February 10	Chapter 9, 10, 21
February 12	Chapters 24, 25
February 17	Exam 3 (Chapters 9, 10, 21, 24, 25)
February 19	Chapters 12, 13, 31 Research Papers Due by 11:59pm
March 31	Chapters 14, 32
April 7	Exam 4 (Chapters 12, 13, 14, 31, 32)
April 9	Chapters 33, 34, 23
April 14	Chapter 11
April 16	Exam 5 (Chapters 11, 23, 33, 34)
May 5	Chapters 37 & 38
May 7	Final Exam Review
May 12	Final Exam

**Notice:* 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.