



MIDWESTERN STATE UNIVERSITY

Respiratory Pathophysiology

Resp 3563 Spring 2025

Contact Information

- Instructor: Mary Sue Owen MS, RRT-NPS, RRT-ACCS, RPFT, AE-C
- Office Phone: 940-397-4654
- Office: Centennial Hall 420F
- Office Hours: By appointment
- E-mail: mary.owen@msutexas.edu

Weekly Meeting Pattern:

Monday, Tuesday, Wednesday, Thursday: 8:00-9:15

Required Text:

DesJardins T, Burton GG. Clinical Manifestations and Assessment of Respiratory Disease, Ninth Edition, Mosby 2024.

Recommended Text:

Kacmarek, RM, Wilkens RL, Stoller JK. Egan's Fundamentals of Respiratory Care, Twelfth Edition, Mosby 2020

Course Description:

The focus of this lecture course is to review the etiology, pathology, pathophysiology, clinical features, and treatments for common pulmonary diseases. Disease topics include asthma, bronchitis, emphysema, cystic fibrosis, shock, pulmonary embolism, heart failure, smoke inhalation and burns, ARDS, chest trauma, atelectasis, neuromuscular disease, and pneumonia.

Objectives:

Upon completion of this course, the student will be able to:

- Identify etiology, pathology, pathophysiology and clinical features associated with common respiratory disease processes.
- Demonstrate ability to apply appropriate therapeutic interventions for each identified pathophysiological process.

Attendance Policy:

Regular class attendance is required. No distinction is made between excused and unexcused absences unless the absence has been cleared through the office of the Dean of Students, Athletic Department, or Academic Affairs. If a student misses lecture, it is the student's responsibility to work with other class members to determine what material was missed. Please refer to the MSU Student Handbook for more information.

American with Disabilities Act (ADA):

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact the Disability Support Services in Room 168 of the Clark Student Center, 397-4140.

Please see the instructor outside of class to make any arrangements involving special accommodations. It is the student's responsibility to declare any disabilities. After declaration, preferably at the beginning of each semester, the student needs to contact individual instructors to determine any reasonable accommodations that may be required.

Student Honor Creed:

"As an MSU Student, I pledge not to lie, cheat, steal, or help anyone else do so."

As students at MSU, we recognize that any great society must be composed of empowered, responsible citizens. We also recognize universities play an important role in helping mold these responsible citizens. We believe students themselves play an important part in developing responsible citizenship by maintaining a community where integrity and honorable character are the norm, not the exception.

Thus, we, the Students of Midwestern State University, resolve to uphold the honor of the University by affirming our commitment to complete academic honesty. We resolve not only to be honest but also to hold our peers accountable for complete honesty in all university matters.

We consider it dishonest to ask for, give, or receive help in examinations or quizzes, to use any unauthorized material in examinations, or to present, as one's own, work or ideas which are not entirely one's own. We recognize that any instructor has the right to expect that all student work is honest, original work. We accept and acknowledge that responsibility for lying, cheating, stealing, plagiarism, and other forms of academic dishonesty fundamentally rests within each individual student.

We expect of ourselves academic integrity, personal professionalism, and ethical character. We appreciate steps taken by University officials to protect the honor of the University against any who would disgrace the MSU student body by violating the spirit of this creed.

Approximate Grading Scale:

Letter Grade	Percent
A	90-100%
B	80-89%
C	75-79%
D	60-74%
F	< 60%

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

Grade Items and Grade Determination:

Assignment	Percent
Lecture exams	60%
Soap notes	5%
Project	10%
Tophat	5%
Final exam	20%

Missed Homework/Exam Policy:

Each student should make every effort to ensure that all assignments are submitted in a timely manner. A 10% reduction will be taken for each day after the scheduled due date for the assignment. If a student is going to miss an examination, it is the student's responsibility to contact the instructor prior to the exam to arrange with the instructor to make up the missed exam. A 15% reduction will be taken for each day (weekends and holidays included) after the scheduled exam date. The professor reserves the right to make unscheduled exams essay in nature and considerably more challenging.

Approximate Lecture Schedule

Date	Topic	Chapter	Assignments
January 21	Syllabus/PFT/ABG	4,5	
January 22	Oxygenation/Cardiovascular	6,7	
January 23	X-ray/tests	8,9	
January 27	Atelectasis/soap notes	17	Soap note #1 due
January 28	Exam 1		
January 29	COPD, Chronic bronchitis	13	
January 30	Emphysema	13	
February 3	Asthma	14	
February 4	Exam 2		
February 5	ARDS/Guillain Barre	28,29	
February 6	Myasthenia Gravis	30	
February 10	Exam 3		
February 11	Bronchiectasis	16	
February 12	Pneumonia	18	
February 13	Lung Abscess	18	
February 17	Fungal Disease	18	
February 18	Exam 4		
February 19	Tuberculosis	19	
February 20	Pulmonary Edema	20	
Feb 24-March 7	CLINIC	CLINIC	Soap note due Mar 6
Mar 10-14	SPRING	BREAK	
Mar 17-28	CLINIC	CLINIC	Soap note #3 due 3/28
March 31	Review	Review	
April 1	Exam 5		

Date	Topic	Chapter	Assignments
April 2	Pulmonary Embolism	21	
April 3	Flail chest/Pneumothorax	22, 23	
April 7	Pleural Effusion/Empyema	24	
April 8	Exam 6		
April 9	Kyphoscoliosis	25	
April 10	Interstitial Lung Disease	27	
April 14	Lung Cancer	26	
April 15	Exam 7		
April 16	Near Drowning/Smoke Inh	44, 45	
April 21-May 2	CLINIC		Soap note #4 due 5/2
May 5	Smoke Inhalation, cont.		
May 6	Final Review		
May 7	Project day with Dr. Judie	Presentation	Presentation
May 8	Case Studies		
May 12	Finals	0900	Date may change

Top Hat

We will be using the Top Hat ([Tophat](#)) classroom response system in class. You will be able to submit answers to in-class questions using Apple or Android smartphones and tablets, laptops, or through text message. Additionally, we will be using the custom-built interactive material within Top Hat for this class. An email invitation will be sent to you by email closer to the first day of class, but if don't receive this email, you can register by simply visiting our course website:

***Note:** our Course Join Code is 009494. Top Hat will require a paid subscription, and a full breakdown of all subscription options available can be found here: [Tophat pricing](#). Should you require assistance with Top Hat at any time, due to the fact that they require specific user information to troubleshoot these issues, please contact their Support Team directly by way of email (support@tophat.com), the in-app support button, or by calling 1-888-663-5491.