



## Respiratory Pathophysiology

Resp 3563

Spring 2022

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**Office Hours** By appointment virtual

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### Weekly Meeting Pattern:

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

### Required Text:

DesJardins T, Burton GG. Clinical Manifestations and Assessment of Respiratory Disease, Eighth Edition, Mosby 2020.

### 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:**

|   |         |
|---|---------|
| 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:**

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% reductions 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**

| <b>Week</b> | <b>Date</b>          | <b>Topic</b>               | <b>Text Reference</b> | <b>Assignments</b>                                       |
|-------------|----------------------|----------------------------|-----------------------|--|
| 1           | January 10           | Syllabus/PFT/ABG           | Ch. 4, 5              |  |
|             | January 11           | Oxygenation/Cardiovascular | Ch. 6,7               |  |
|             | January 12           | X-ray/Tests                | Ch. 8, 9              |  |
|             | January 13           | Atelectasis/soap notes     | Ch. 17                | Soap note #1 due   |
|             | January 17           | MLK holiday                |                       |  |
|             | January 18           | Exam 1                     |                       |  |
|             | January 19           | COPD: Chronic bronchitis   | Ch. 13                |  |
|             | January 20           | Emphysema                  |                       |  |
|             | January 24           | Asthma                     | Ch. 14                |  |
|             | January 25           | Exam 2                     |                       |  |
|             | January 26           | ARDS/Guillain Barre        | Ch. 28, 29            |  |
|             | January 27           | Myasthenia Gravis          | Ch. 30                |  |
|             | January 31           | Exam 3                     |                       |  |
|             | February 1           | Bronchiectasis             | Ch. 16                |  |
|             | February 2           | Pneumonia                  | Ch. 18                |  |
|             | February 3           | Lung Abscess               | Ch. 18                |  |
|             | February 7           | Exam 4                     |                       |  |
|             | February 8           | Tuberculosis               | Ch. 19                |  |
|             | February 9           | Fungal Disease             | Ch. 18                |  |
|             | February 10          | Pulmonary Edema            | Ch. 20                |  |
|             | February 14-March 11 | <b>Clinic</b>              |                       | Soap note 2 Feb 25 <sup>th</sup><br>Soap note 3 March 11 |

|             |                                  |                           |
|-------------|----------------------------------|---------------------------|
| March 14-18 | Spring Break                     |                           |
| March 21    | Review                           |                           |
| March 22    | Exam 5                           |                           |
| March 23    | Pulmonary Embolism               | Ch. 21                    |
| March 24    | Flail Chest/Pneumothorax         | Ch. 22, 23                |
| March 28    | Pleural Effusion/Emphyema        | Ch. 24                    |
| March 29    | Exam 6                           |                           |
| March 30    | Kyphoscoliosis                   | Ch. 25                    |
| March 31    | Interstitial Lung Dz             | Ch. 27                    |
| April 4-15  | <b>Clinic</b>                    | Soap note #4 due April 10 |
| April 18    | Lung Cancer                      | Ch. 26                    |
| April 19    | Review                           |                           |
| April 20    | Exam 7                           |                           |
| April 21    | Near Drowning/Smoke inh          | Ch. 44, 45                |
| April 25    | Smoke inhalation cont            |                           |
| April 26    | inclement weather makeup day     |                           |
| April 27    | Project day with Dr. Judie 10:00 |                           |
| April 28    | Review for final                 |                           |
| May 2       | Finals 0900                      | date may change           |

## Top Hat

We will be using the Top Hat ( [www.tophat.com](http://www.tophat.com) ) 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: <https://app.tophat.com/e/849362>

Note: our Course Join Code is 849362. Top Hat will require a paid subscription, and a full breakdown of all subscription options available can be found here: [www.tophat.com/pricing](http://www.tophat.com/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](mailto:support@tophat.com) ),the in-app support button, or by calling 1-888-663-5491.