

Bergen Community College

Division of Health Professions

Respiratory Care Program

RSP-210 Cardiopulmonary Diseases & Disorders

Course Information

Semester and Year:

Course and Section Number: RSP-210-001

Meeting Times and Locations:

Instructor:

Office Location:

Departmental Secretary:

Office Hours:

Contact information:

Course Description

This course covers essential information regarding common respiratory diseases. This course will provide the student with a description of the anatomic alterations of the lungs, etiology of the disease process, an overview of the cardiopulmonary clinical manifestations associated with the disorder, and management of the respiratory system. In addition, the course is designed to provide students with the opportunity to develop informational gathering and decision-making skills in the diagnosis and treatment of patients with cardiopulmonary or related disorders.

Credits: 3 (3 lectures hours)

Prerequisites: RSP-110, RSP-119, and RSP 121

Corequisites: RSP-220, RSP-222, and RSP-225

Student Learning Outcomes: As a result of meeting the requirements in this course, the student will:

1. Using clinical data, evaluate the disease progression.
2. Recommend the appropriate treatment for cardiopulmonary diseases.
3. Be able to distinguish various cardiopulmonary diseases.
4. Develop a care plan for a disease process based on the clinical presentation.
5. Provide appropriate patient education.

Means of Assessment

A student in this course is assessed through:

- Five (5) exams that contain multiple choice or calculation questions that will be used to assess competency.
- An oral presentation is used to assess communication skills.

Course Content

1. Describe the (GOLD) definition of COPD.
2. Describe the anatomic alterations of the lungs, etiology, epidemiology, pathophysiology, diagnostic tests, clinical manifestations and general disease management of:
 - Obstructive Diseases:
 - Bronchiectasis
 - Emphysema
 - Chronic Bronchitis
 - Asthma
 - Cystic Fibrosis
 - Restrictive Diseases:
 - ILDs
 - Pleural Effusions
 - Pneumothorax / flail chest
 - ARDS
 - Neuromuscular disorders
 - Atelectasis
 - Near Drowning
 - Vascular Diseases:
 - Pulmonary Embolism
 - Pulmonary Edema
 - Sleep Disorders
 - Obstructive Sleep Apnea (OSA)
 - Central Apnea
 - Mixed Sleep Apnea
 - Infectious Lung Diseases
 - Fungal Infections
 - Bacterial Infections/Tb
 - Smoke Inhalation/Thermal injuries/ Carbon Monoxide Intoxication
3. Describe the role of the national and international guidelines in the management of asthma.
4. Describe the procedures: Thoracentesis; Video-Assisted Thoracoscopy Surgery (VATS); Lung Biopsy; and Pleurodesis.

Course Texts

Required

- Kacmarek R. Egan's Fundamentals of Respiratory Care, 12th ed. Elsevier, 2021. ISBN: 9780323811217

Recommended

- Clinical Manifestations and Assessment of Respiratory Disease, 8th Ed., Des Jardins, T. ISBN: 978-0323553698

Exams and Presentation Requirements

Exams may consist of multiple-choice questions or true-false questions based on select modules readings and class presentations. Each exam contains questions for two or more modules.

Each student will prepare and present both an oral (PowerPoint Presentation) and written summary outline on an assigned disease, disorder, trauma, etc. topic. Dates for presentation will follow the course schedule. See guidelines on the next page for Research/Oral Presentation Project.

Grading Policy

Assessments	
Exams (5)	80%
Case Study Presentation	20%
Total points	100%

Grade Scheme

Letter	Description	% Range
A	The student must show superior theoretical knowledge.	93 – 100
B+	The student must merit high-quality classroom work and theoretical knowledge.	88 – 92.9
B	The student must show above-average knowledge.	83 – 87.9
C+	The student meets the standard of achievement with reasonable knowledge.	78 – 82.9
F	The student fails to meet minimum course standards.	<78

Missed Quizzes and Late Work

Late work and make-up examinations will be penalized with a grade being no greater than 78%. Late work must be submitted as soon as possible. 10% will be deducted from the total grade for every day assignment is not turned in.

Make-up examinations will be completed during the last week of the semester, or at the discretion of the professor.

Academic Integrity Policy and Attendance Policy

Academic Integrity

Academic dishonesty is a serious violation of BCC policy and personal ethics and will be treated as such if the reason for suspicion should arise. Students should be careful to avoid plagiarism, falsification, and compliance. Academic integrity is vital to an academic community and for fair evaluation of student assessments. All assessments submitted must be your own, completed in accordance with the college's

academic policies and the student code of conduct. You may not engage in unauthorized collaboration or make use of any artificial intelligence (AI) composition systems. Academic dishonesty also includes cheating on examinations. Refer to the BCC student code of conduct, student handbook for additional information, and the statement on plagiarism

(<https://catalog.bergen.edu/content.php?catoid=4&navoid=163#academic-dishonesty>).

BCC Attendance Policy

All students are expected to attend punctually every scheduled meeting of each course in which they are registered. Attendance and lateness policies and sanctions are to be determined by the instructor or program policy. The instructor will keep attendance for administrative and counseling purposes. Class attendance and student participation are essential to the successful completion of this course.

Course Attendance Policy

Attendance and punctuality in all class sessions is required. Attendance for lectures is factored into the total grade for the course. Two (2) points are deducted for every absence. One (1) point is deducted if the student arrives after the attendance is recorded. If you are late, be sure to see the professor in that class so the absence can be corrected to a lateness.

Departmental Policy Statements

- Acceptable quality of work and mature behavior is always expected from every student. Students are regarded as professionals and are expected to conduct themselves accordingly.
- High standards of professional performance demand that students maintain good academic progress throughout their course of study in the program.
- Students demonstrating chronic tardiness or absenteeism will be placed on academic warning or probation and may be subjected to termination from the program.
- Absence from a class during a scheduled exam will be subject to the policy of the instructor for that specific course. If the student is going to miss a scheduled exam, it is expected that the student will contact the instructor ahead of time by email or phone to the department office.
- All students are required to adhere to the policies and procedures of the school as outlined in the college catalog.
- Additional department policies are in the Student Policies and Procedures Manual.
- Remediation
 - The program's defined process for addressing deficiencies in a student's knowledge, skills, professional behavior, and competencies so that the correction of these deficiencies can be ascertained and documented. The program must conduct these evaluations equitably and with sufficient frequency to facilitate prompt identification of learning deficiencies and the development of a means for their remediation within a suitable time frame.
 - The remediation process is initiated by faculty when any student is at risk of failing a course due to difficulty accomplishing course objectives and / or requirements. At risk behaviors include academic deficiency (non-passing quiz, examination, laboratory competency), lack of clinical competency (not abiding by policy and procedures, unsafe behavior), and lapses in professional conduct.

Support Services

- The program faculty maintains office hours for counseling and is available to provide tutorial assistance to students.
- Students must make appointments in advance to meet with the respective instructors.
- Students may also obtain assistance from the [College Tutoring Center](#). Appointments must be made in advance through this center.
- The College has a [personal counseling center](#) for those students who may need personal assistance. Appointments are made directly through this center.
- Any problems, concerns, or questions should be directed to the course instructor or the student's advisor.
- Statement on Civility
 - Refer to the [Standards of Conduct](#) Subsection found in the Student Judicial Affairs Policies & Procedures Section found in the Student Handbook.
- Academic Integrity
 - Refer to the Academic Integrity Subsection; found in the [Academic Regulations](#).
- Other possible College, Divisional, or Departmental Policy Statements to be referenced.
 - ADA statement.
 - Students with documented disabilities who require accommodations by the American with Disabilities Act (ADA) can request support services from the Office of Specialized Service of Bergen Community College located in room L-115 of the Pitkin Learning Center. (www.bergen.edu/oss)
 - Sexual Harassment statement.
 - Statement on acceptable use of [BCC technology](#).
- Support Services
 - [Writing Center](#)
 - [Math Lab](#)
 - [Online Writing Lab](#) (OWL)
 - [Office of Specialized Services](#)
- BCC Library
 - The [Sidney Silverman Library](#) is committed to providing a quiet, welcoming, respectful atmosphere conducive to study and research in an environment that is comfortable, clean, and safe. The use of the library will be beneficial in providing resources on researching topic information, citation styles, and finding current articles among many other media services available.

Course Schedule

Week	Topic / Activity	Reading Assignments
1	Course overview Review of lung anatomy Introduction to COPD	
2	Patterns of obstructive lung disease	
3	Student presentation: interstitial lung diseases	
4	Exam 1; Lung cancer	
5	Infectious diseases (pneumonias; tuberculosis)	
6	Student presentation: pleural diseases	
7	Trauma: Flail chest, chest tube, thoracostomy Assisting the physician	
8	Exam 2 Pulmonary vascular disease, Pulmonary edema Spring break	
9	Student presentation: neuromuscular diseases	
10	Exam 3 Neuromuscular diseases, Acute Respiratory Distress	
11	Student presentation: ARDS Smoke Inhalation	
12	Exam 4 Sleep apnea	
13	Post-op atelectasis Near drowning	
14	Student presentation: fungal diseases of the lung	
15	Exam 5	

Note to Students: This course schedule is subject to change depending upon the progress of the course. All material will be covered, and students are responsible for the content.