

# RSPT 51C: PATIENT ASSESSMENT & PULMONARY DISEASE

## Foothill College Course Outline of Record

Heading	Value
<b>Units:</b>	4
<b>Hours:</b>	4 lecture, 1.25 laboratory per week (63 total per quarter) Laboratory meets 5 times per quarter (3 hours per laboratory meeting).
<b>Prerequisite:</b>	BIOL 41.
<b>Degree &amp; Credit Status:</b>	Degree-Applicable Credit Course
<b>Foothill GE:</b>	Non-GE
<b>Transferable:</b>	CSU
<b>Grade Type:</b>	Letter Grade Only
<b>Repeatability:</b>	Not Repeatable

## Student Learning Outcomes

- To differentiate the major respiratory disorders according to etiology, clinical signs and symptoms, and treatment approaches.
- Analyze physical exams and chest x-rays and relate the data to the patient's condition and anticipate problems which may occur.

## Description

Physiological approach to the etiology, management, and prognosis of the various respiratory diseases. Utilization of physical examination, chest X-ray and basic clinical laboratory tests in the diagnosis and treatment of pulmonary disease. Intended for students in the Respiratory Therapy Program.

## Course Objectives

The student will be able to:

- Classify pulmonary diseases into restrictive and obstructive categories.
- Analyze clinical laboratory test results and apply them to the patient's status.
- Explain which respiratory therapy modalities should be used to treat various pulmonary diseases.
- Differentiate the major respiratory infectious disorders according to etiology, clinical signs and symptoms, and treatment approaches.
- Identify the various clinical disorders associated with chest and pleural trauma, including their cause, clinical features, and management.
- Describe the anatomic alterations associated with chest wall disorders and what treatment options exist.
- Differentiate the differences between small cell and non-small cell carcinoma, their clinical manifestation and management.
- Describe neurologic disorders and sleep apnea.
- Describe the major postoperative respiratory complications and the mechanisms useful in preventing and treating these problems.

## Course Content

- Pulmonary diseases

- Obstructive diseases
  - COPD
  - Asthma
  - Bronchiectasis
  - Cystic fibrosis
- Restrictive diseases
  - Pneumothorax
  - Pleural effusion
  - Flail chest
  - Mucus plugging
  - Pneumonia
  - ARDS
  - Lung abscess
  - TB
  - Pulmonary edema
  - Pneumoconiosis
  - Fungal disease
- Clinical laboratory tests
  - Electrolyte studies
  - Hematologic studies
  - Coagulation studies
  - Chemistry studies
- Respiratory therapy modalities
  - Cough and deep breathing
  - Incentive spirometry
  - Lung expansion therapy
  - Aerosolized medication therapy
  - Bronchopulmonary hygiene therapy
- Infectious diseases
  - Pneumonia
  - Lung abscess
  - Tuberculosis
  - Fungal disease of the lung
- Chest and pleural trauma
  - Flail chest
  - Pneumothorax and hemothorax
  - Pulmonary contusion
  - Chest trauma
- Chest wall disorders
  - Scoliosis
  - Kyphosis
  - Kyphoscoliosis
  - Pectus carinatum
  - Pectus excavatum
- Lung cancer
  - Small cell carcinoma
  - Non-small cell carcinoma
    - Adenocarcinoma
    - Squamous cell carcinoma
    - Large cell carcinoma
- Neurologic disorders and sleep apnea
  - Guillain-Barre syndrome
  - Myasthenia gravis
  - Sleep apnea
- Postoperative atelectasis

## Lab Content

- Classify pulmonary diseases into restrictive and obstructive categories
- Perform chest exams and evaluate results
  - Analyze CXRs

1. Identify anatomical landmarks
2. Distinguish between normal and abnormal films
- C. Analyze clinical laboratory test results and apply them to the patient's status
  1. Include in SOAP charting
- D. Identify normal laboratory test results, and anticipate patient problems which may occur
  1. Include in SOAP charting
- E. Explain which respiratory therapy modalities should be used to treat various pulmonary diseases
  1. Include and integrate into SOAP charting
- F. Differentiate the major respiratory infectious disorders according to etiology, clinical signs and symptoms, and treatment approaches
  1. Incorporate into charting as a care plan
- G. Identify the commonality and differences between the various clinical disorders causing pulmonary restriction, including their cause, clinical features, and management
- H. Describe the major postoperative respiratory complications and the mechanisms useful in preventing and treating these problems
- I. Distinguish among the causes, diagnosis, and treatment of the various diseases responsible for pulmonary complications

## Discipline(s)

Respiratory Technologies

## Special Facilities and/or Equipment

- A. X-ray viewing boxes and simulation mannequins.

## Method(s) of Evaluation

Methods of Evaluation may include but are not limited to the following:

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- A. Quizzes
- B. Midterm
- C. Comprehensive final exam

## Method(s) of Instruction

Methods of Instruction may include but are not limited to the following:

- A. Lecture demonstration on the various respiratory therapy diseases, their pathophysiology, etiology, presentation, treatment and management.

## Representative Text(s) and Other Materials

Des Jardins and Burton. [Clinical Manifestations and Assessment of Respiratory Disease](#). 7th ed. Chicago: Mosby, 2016. ISBN: 9780323244794

Kacmarek, Stoller, and Heuer. [Egan's Fundamentals of Respiratory Care](#). 11th ed. St Louis, MO: Mosby Year Book, Inc., 2017. ISBN: 9780323341363

Hanning, Brenda. [51C Course Syllabus](#).

Hanning, Brenda. [51C Lab Manual](#).

## Types and/or Examples of Required Reading, Writing, and Outside of Class Assignments

- A. Assigned reading from required textbooks and lab manual competencies relevant to course content. Reading assignments will average 20-40 pages per week.