

**Common Course Outline**  
**RESP 103**  
**Therapeutics & Pathology**  
**3 Credits**

**The Community College of Baltimore County**

**Description**

Therapeutics & Pathology

Provides a knowledge base of the pathology of the respiratory system; emphasizes various treatment modalities.

Prerequisite: RESP 102; RESP 104 taken concurrently.

**Overall Course Objectives**

Upon completion of the Course the student will be able to:

1. Understand the concept of diffusion, compliance and surface tension.
2. Identify the different breathing patterns, lung volumes and capacities.
3. Comprehend Acid/Base Balance.
4. Interpret arterial blood gases.
5. Perform calculations related to oxygen delivery and uptake.
6. Understand shunt, V/Q mismatch, shunt - like effect and venous mismatch.
7. Calculate the shunt equation.
8. Differentiate between the different types of hypoxia.
9. Understand, explain & perform chest - physiotherapy.
10. Understand , explain and perform airway care.
11. Understand, explain and perform hyperinflation therapy.
12. Understand, explain and perform IPPB.

**Major Topics**

1. Diffusion
2. Compliance

3. Surface Tension
4. Breathing
5. Acid/Base Balance
6. Calculations
7. Shunt, V/Q mismatch
8. Hypoxia
9. Chest - physiotherapy
10. Airway Care
11. IPPB

### **Course Requirements**

Grading/exams: Grading procedures will be determined by the individual faculty member but will include the following: unit exams, homework, laboratory check-offs, quizzes, article review, and final.

Writing: Article review