



# Cardiopulmonary Anatomy & Physiology

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## Course Description

**Navigate Respiratory Care: Cardiopulmonary Anatomy & Physiology** is one of the 10 online courses in the **Navigate Respiratory Care** curriculum. This course examines the interaction among the body systems that affect respiration. It first covers cardiopulmonary anatomy and the circulatory systems that transport oxygen to the cells of the body. After examining oxygen transport in detail, the course covers diffusion and ventilation. Included are the other body organs and systems that are part of or affect respiration.

## Course Content

- NBRC Correlation Matrix
- Course Objectives
- Interactive Lectures with Audio
- Interactive Practice Activities and Quizzes
- Icons to highlight important information—  
infection control, safety, caution, legal,  
and ethical
- Lesson Case Study
- Lesson Assignment
- Lesson Summary
- Lesson Discussion Questions
- Final Quiz
- Web Links and References

## Course Outcome

As a future respiratory therapist, students will encounter many patients with respiratory problems who have diseases of other body systems. This course helps students to discover the interaction among the various body systems that affect respiration.

## Course Objectives

1. Describes each structure of the cardiopulmonary respiratory system.
2. Discusses the function of each structure in respiration and cardiopulmonary circulation.
3. Defines ventilation and the pressures associated with gases during ventilation.
4. Summarizes gas exchange in the body and normal and abnormal ratios.
5. Explains lung volumes and capacities.
6. Discusses oxygen transport and normal and abnormal factors in oxygen delivery.
7. Describes oxygen transport calculations used by respiratory therapists.
8. Explains the transport of carbon dioxide throughout the blood.
9. Describes diffusion of gases throughout the body.
10. Examines the gas laws.
11. Relates neural control of the lungs to the process of respiration.
12. Identifies blood vessels and other structures involved in circulation.
13. Details the various circulations of blood in the body.
14. Discusses ventilation/perfusion and the causes and consequences of a mismatch.
15. Describes electrophysiology of the heart.
16. Examines acid-base balance.

## Optional Textbooks to Accompany Course

### **Anatomy and Physiology for Health Professionals**

by Moini

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### **Respiratory Care: Principles and Practice, Second Edition**

by Hess, et al.

ISBN-13: 978-0-7637-6003-8 • © 2012

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