

Common Course Outline

RESP 102

Basic Respiratory Care

4 credits

The Community College of Baltimore County

Description

Basic Respiratory Care

Introduces fundamental principles of Respiratory Care; covers patient assessment, medical gas therapy, respiratory pharmacology, sterilization, and microbiology. Includes laboratory practice with equipment necessary to develop basic techniques.

4 lecture hours a week, 3 hours laboratory a week. (Offered Fall)

Prerequisites: Admission into the program.

Overall Course Objectives

Upon completion of this course the student will be able to:

1. Comprehend the regulation of breathing.
2. Understands the structure and function of the respiratory system.
3. Comprehends the mechanics of breathing.
4. Identifies the different lung volumes and capacities.
5. Develops a treatment plan using the SOAP method.
6. Justifies the treatment plan based on their assessments.
7. Describes and demonstrates bedside assessment techniques utilized in Respiratory Care.
8. Explains the interaction of drugs throughout the body.
9. Defines the drugs by category and individually.
10. Evaluates a clinical scenario and determines which drug would be appropriate and its effectiveness.
11. Differentiates between the use of aerosol and humidity.
12. Recognizes the different equipment and judges which is most appropriate for the situation.
13. Identifies the effectiveness and its hazards for each aerosol and humidity delivery device.
14. Comprehend microbiology and immunology in regards to the respiratory system.
15. Define the various sterilization and disinfecting techniques.
16. Explains and demonstrates how to use an incentive spirometer.
17. Evaluates a clinical scenario and judges the necessity of hyperinflation therapy, its effectiveness, and its hazards.
18. Applies the principles and use of medical gas therapy and related equipment.
19. Evaluates the appropriateness and effectiveness of the medical gas therapy.
20. Comprehends the principles of physics involved in Respiratory Care.

Major Topics

1. Anatomy and Physiology
2. Patient Assessment
3. Respiratory Pharmacology
4. Physical Principles in Respiratory Care
5. Medical Gas Therapy

6. Decontamination, Sterilization
7. Hyperinflation Therapy
8. Microbiology and Immunology

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

Other Course Information

This course is the first course in the Respiratory Therapist Program.