

Syllabus

Course Code: RESP 162

Title: Fundamental Skills in Respiratory Care

Institute: Health Science

Department: Allied Health

Course Description: This course is designed for students who have gained admission into the Respiratory Care Program. It is the first course to include a college and clinical laboratory experience. It is designed to provide the student with the following competencies: critical thinking and problem-solving, communication, scientific perspective, and information and technology literacy through discussion and application of basic respiratory case modalities. Specifically, the student will master the theory and clinical application of patient assessment, humidity and aerosol therapy, pharmacology, oxygen therapy, intermittent positive pressure and techniques of bronchial clearance. The student will also comprehend the principles of infection control through cleaning, disinfection and sterilization procedures and demonstrate techniques of transmission prevention. College laboratory will provide training and practice of competency skills to be further mastered in the clinical laboratory. Students will practice in the clinical laboratory under supervision. Students should be aware that practice in the college and clinical laboratory may expose them to certain hazardous or infectious agents. A complete orientation including in-service with required manual will be provided to ensure student safety.

Prerequisites: Admission to the Program

Corequisites: RESP 161, BIOL 111, and ENG 121

Prerequisites or corequisites:

Credits: 7

Lecture Hours: 3

Lab/Studio Hours: 2/6

Required Textbook/Materials:

1. Cairo, J., and Pilbeam, S. *Mosby's Respiratory Care Equipment 11th ed.*
2. Butler, Thomas J. *Laboratory Exercises for Competency in Respiratory Care.*
3. Kacmarek, R., Stoller, J., et al. *Egan's Fundamentals of Respiratory Care. 12th ed.*
4. Wilkins, Robert L., Richard L. Sheldon, and Susan Jones Krider. *Clinical Assessment in Respiratory Care.* Mosby. 9th ed.
5. Gardenhire, D. *Rau's Respiratory Care Pharmacology and Workbook 10th ed.*

Additional Time Requirements:

For information on Brookdale's policy on credit hour requirements and outside class student work refer to Academic Credit Hour Policy.

(Identify open lab or other activities that are required if applicable)

Lab Practice: 2 hours Competency Demonstration: ½ hour

Additional Support/Labs:

See <https://www.brookdalecc.edu/academic-tutoring/>

Course Learning Outcomes:

Upon completion of this course, students will be able to:

- Assess and evaluate patients for selected respiratory care needs.
- Perform therapeutic measures related to a diverse group of acute-care patients.
- Compare and contrast respiratory delivery systems used in management and treatment of the acute-care patient.
- Implement quality assurance measures for selected respiratory care delivery systems.
- Manage care for two acute care patients.
- Apply therapeutic verbal and non-verbal communication skills in patient interactions.
- Implement basic respiratory care procedures for acute care patients that meet legal and ethical standards.
- Collaborate with other health team members to plan approaches to respiratory treatment and management of the acute-care patient.
- Examine the role and function of the respiratory therapist in the acute-care setting.
- Demonstrate responsibility for self as learner and caregiver.

Course Content:

Unit 1 – Infection Control and Universal Precautions

Week 1: Infection transmission and techniques to prevent the spread of microorganisms, and types of microorganisms

Unit 2 – Basic Pulmonary Assessment & Introduction to Patient Care

Weeks 2 and 3: Basic assessment, implementation of safety measures, careful and accurate documentation of patient care and therapies.

Unit 3 – Oxygen Therapy Administration and Analysis

Weeks 4-5: Principles of therapeutic administration of medical gasses, identification of medical gasses, proper application, and delivery of medical gasses.

Unit 4 – Humidity & Aerosol Therapy

Weeks 6 and 7: Analysis and application of principles of aerosol and humidity, including delivery devices, hazards, and complications.

Unit 5 – Medication Administration & Pharmacology

Weeks 8-9: Concepts of aerosol generation, administration of drugs, pharmacology, or respiratory and other drugs.

Unit 6 – Airway Clearance Therapy

Week 10: Physiological rationale, indications, goals, techniques, and methods of evaluating airway clearance.

Unit 7 – Hyperinflation Therapy and Bronchial Hygiene

Week 11: Principles, application, hazards, and evaluation of various modes of hyperinflation therapy and its alternatives.

Unit 8 -- Oxygen Supply Systems (Cylinders & regulators) & Home Oxygen

Week 12: Identify and describe 2 types of cylinder regulators. Successfully placed the regulator on the E and H cylinder. Calculate cylinder duration.

Identify and educate about home oxygen options including qualification for and safety with.

Week 13 Final examination review.

Week 14 Final examination.

Department Policies:

Please see student handbook.

Grading Standard:

In addition to the Academic Progress Policy in the Brookdale Respiratory Care Student Handbook, the following policies apply to RESP 162.

1. Upon completion of the units, students will be given a written test based on the unit objectives. Unit grades will be determined as follows:

A	94-100
A-	90-93
B+	87-89
B	84-86
B-	81-83
C+	78-80
C	74-77
D	65-73
F	64 or below

2. The course grade will be derived as follows:

Unit exams 45%

Final exam 25%

2 complete, satisfactory care plans and

completion of homework assignments 25%

Attendance 5%

Satisfactory laboratory,

Satisfactory clinical evaluation

3. All students are required to meet examination schedule requirements as stated on the course calendar. Unit examinations will be given in class. Any student who is unable to take the exam as scheduled must speak personally to the instructor prior to the exam.
4. Students have the opportunity to review completed exams by contacting the instructor.
5. Any student behind 2 weeks in lab will not attend clinical and must make an appointment to be in the lab during the hours of clinical for practice. This miss from clinical is not excused.
6. All College Laboratory skills and all assignments must be completed on time and prior to taking the final examination. Incompletes are given at the professor's discretion. An incomplete is not a given rather it is earned. RESP 162 Fundamental Skills in Respiratory Care 2012 • 9.6.11/C:MyDox:RESP DC 3.23.10 [7.6.22 copy] v
7. Each day an assignment is late, a point will be deducted from the assignments total grade.
8. A grade of 74% is required to pass this course.
9. Students may review the final examination by appointment
10. Extra credit toward an assignment only is determined and deemed by the professor for the class not an individual student prior to the end of the semester. There is no other extra credit.
11. A no call, no show prior to lab or clinical counts as an unexcused absence in which the student will be wrote up for non-compliance.
12. Course content, assignments, exams, and due dates may be altered due to professors' discretion. ALL assignments must be submitted on Canvas via Word or PDF file. NO Videos will be accepted.

College Policies:

As an academic institution, Brookdale facilitates the free exchange of ideas, upholds the virtues of civil discourse, and honors diverse perspectives informed by credible sources. Our College values all students and strives for inclusion and safety regardless of a student's disability, age, sex, gender identity, sexual orientation, race, ethnicity, country of origin, immigration status, religious affiliation, political orientation, socioeconomic standing, and veteran status. For additional information, support services, and engagement opportunities, please visit www.brookdalecc.edu/support.

For information regarding:

- Academic Integrity Code
- Student Conduct Code
- Student Grade Appeal Process

Please refer to the [Student Handbook](#) and [Catalog](#).

Notification for Students with Disabilities:

Brookdale Community College offers reasonable accommodations and/or services to persons with disabilities. Students with disabilities who wish to self-identify must contact the Accessibility Services Office at 732-224-2730 (voice) or 732-842-4211 (TTY) to provide appropriate documentation of the disability and request specific accommodations or services. If a student qualifies, reasonable accommodations and/or services, which are appropriate for the college level and are recommended in the documentation, can be approved.

Mental Health:

24/7/365 Resources:

- Monmouth Medical Center Psychiatric Emergency Services at **(732) 923-6999**
- 2nd Floor Youth Helpline – Available to talk with you about any problem, distress, or hardship you are experiencing. Call or text at **888-222-2228** or visit the website at <https://www.2ndfloor.org/>

Faculty Counselors:

- Students who need to make an appointment with a faculty counselor can do so by calling 732-224-1822 (non-emergency line) during business hours. Faculty counselors are licensed mental health professionals who can assist students and refer them to other mental health resources.

Diversity Statement:

Brookdale Community College fosters an environment of inclusion and belonging. We promote a safe and open culture, encourage dialogue respecting diverse perspectives informed by credible sources, and uphold the virtues of civil discourse. We celebrate all identities with the understanding that ultimately, diversity, equity, and inclusion cultivate belonging and make us a stronger Brookdale community.

**The syllabus is intended to give student guidance in what may be covered during the semester and will be followed as closely as possible. However, the faculty member reserves the right to modify, supplement, and make changes as the need arise.*