

**SOUTHEAST COMMUNITY COLLEGE
HEALTH SCIENCES DIVISION
RESPIRATORY CARE PROGRAM
Created Date: 11/2025**

I. CATALOG DESCRIPTION

Course Number:	RESP 1128
Course Title:	Respiratory Diagnostics Essentials
Prerequisite(s):	Completion of previous term

Catalog Description:	Study of the diagnostic tests and methods performed and used by Health Care providers.
-----------------------------	---

Credit Hours:	2
Class Hours:	30
Lab Hours:	0
Total Contact Hours:	30

II. COURSE OBJECTIVES: *Course will:*

- A. Summarize the electrical and mechanical activity of the heart.
- B. Detail the methods used to evaluate pulmonary and cardiac function.
- C. Describe the interaction of the cardiovascular system to the respiratory, renal and neural systems.
- D. Show the process for analyzing pulmonary function data.
- E. Summarize the evolution of sleep medicine, including its impact on society.
- F. Illustrate the process from identification to managing sleep disorders.
- G. Identify the consequences of untreated sleep disorders.

III. STUDENT LEARNING OUTCOMES AND GENERAL EDUCATION LEARNING OUTCOMES:

A. STUDENT LEARNING OUTCOMES: *Students will be able to:*

1. Demonstrate bedside pulmonary function testing procedures.
2. Interpret pulmonary function results.
3. Determine severity of Sleep Disordered breathing from various types of sleep data.
4. Examine a home PAP case study, suggesting modifications if needed, to promote optimal patient compliance.

B. GENERAL EDUCATION LEARNING OUTCOMES GELO #3: Critical Thinking & Problem-Solving Outcomes:

1. Collect, identify, interpret and analyze data.
2. Synthesize information to arrive at reasoned solutions to problems.

IV. CONTENT/TOPICAL OUTLINE *(course outline may provide more detailed information)*

A. Review of cardiac anatomy

1. Structures
2. Blood flow
3. Conduction pathway
4. Hemodynamic values

B. EKG interpretation

C. Evaluating pulmonary function

1. Procedures
2. Quality Assurance
3. Interpretation

4. Application of Data to Manage Disease

D. Evolution of sleep medicine

1. Sleep Deprivation
2. Societal Impact of Sleep Debt
3. Sleep Disorders
4. Management of Sleep Disorders

E. Pap compliance

1. Eliminating Barriers
2. PAP Titration Follow-up
3. Management of Sleep Disordered Breathing

V. INSTRUCTIONAL MATERIALS

A. Required Text(s):

1. *Egan's Fundamentals of Respiratory Care*, Kacmerak, Stoller, Heuer, current edition.
Clinical Assessment in Respiratory Care, Wilkins, et.al., current edition, Elsevier-Mosby, Publishers
2. *Laboratory Exercises for Competency in Respiratory Care*, current edition. Butler, F.A. Davis
3. Klabunde, Richard. *Cardiovascular Physiology Concepts*, current edition. Lippincott Williams, & Wilkins
4. Textbooks from previous terms and courses

B. Other Resources:

1. LMS, Internet access

VI. METHODS OF PRESENTATION/INSTRUCTION

A. Methods of presentation typically include a combination of the following:

1. Lecture notes
2. Demonstration
3. Discussion
4. Online learning

VII. METHODS OF EVALUATION

A. Methods of evaluation typically include a combination of the following:

1. Examinations
2. Quizzes
3. Assignments
4. Presentations

SCC STANDARD GRADING SCALE POLICY:

A+ 95-100	C+ 75-79
A 90-94	C 70-74
B+ 85-89	D+ 65-69
B 80-84	D 60-64
	F Below 60

VIII. SPECIFIC COURSE REQUIREMENTS

A. ATTENDANCE

1. Attendance is crucial to the success of this course. Any class missed could mean valuable missed information, which is difficult to obtain. Please notify the instructor of any pending absences or if you will be late.
- B.** Requires a grade of "C+" or better to advance to the next term of the Respiratory Care Program.