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

I. CATALOG DESCRIPTION

Course Number:	**RESP 1154**
Course Title:	**Respiratory Critical Care Management**
Prerequisite(s):	
Catalog Description:	**Study of respiratory management of patients in critical care settings with emphasis on critical thinking skills in patient assessment and monitoring and recommending alternative therapies. Extensive use of case studies, patient scenarios, and ACLS algorithms.**
Credit Hours:	**3**
Class Hours:	**45**
Lab Hours:	**0**
Total Contact Hours:	**45**

II. **COURSE OBJECTIVES:** *Course will:*

- **A.** Analyze the ACLS algorithm to assess, evaluate and make recommendations for proper treatment in emergent situations.
- **B.** Identify specific critical care conditions as it relates to assessment, differential diagnosis, and treatment of the critically ill patient.
- **C.** Evaluate hemodynamic and lab values as it relates to critical care conditions.
- **D.** Recognize dysrhythmias and make recommendations for proper treatment according to ACLS guidelines.
- **E.** Identify therapeutic options to cardiovascular disease for various chronic and acute conditions (i.e., vasopressors, vasodilators, inotropic agents, cardiac assist devices).
- **F.** Identify abnormal cardiovascular function through assessment (i.e., heart sounds, hemodynamics, lab values, etc.)
- **G.** Evaluate the response of the cardiovascular system to various critical care situations, (i.e., hypertension, cardiac disease, hypotension).
- **H.** Prepare students to monitor patients using hemodynamic monitoring tools.
- **I.** Relate the following hemodynamic terms to their normal and abnormal cardiovascular physiology.
    1. Blood pressure
    2. Cardiac output
    3. Stroke volume
    4. Preload
    5. Afterload
    6. Myocardial oxygenation

III. STUDENT LEARNING OUTCOMES AND GENERAL EDUCATION LEARNING OUTCOMES:

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

1. Using case studies: create a plan of care for critically ill patients.
2. Complete ACLS drug cards.

3. Complete an ACLS patient care simulation.
4. Create a hemodynamics table for each condition covered.
5. Create EKG rhythm strip flash cards.

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.
3. Evaluate ideas presented in writing, medial, speech, or artistic presentations.
4. Evaluate the validity of arguments, alternatives, data, outcomes, and/or impacts of actions.
5. Acquire and integrate knowledge and construct relationships across disciplines.

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

A. ACLS

1. Medications
2. Algorithms
3. EKG interpretation
4. Simulation practice

B. Caring for the Critically Ill Patient

1. Chest injuries
2. Head and Spinal injuries
3. Burn Trauma
4. ARDS
5. Sepsis
6. Pancreatitis
7. Shock Syndromes

C. Hemodynamic monitoring

a. Invasive measurement
b. Arterial lines
c. Central venous pressure lines
d. Pulmonary artery catheter

D. Cardiovascular diseases

1. CHF
2. Valvular dysfunction
3. Pulmonary Hypertension
4. Right and left heart failure
    a. Shock

E. Interventions

1. Open heart surgery
    a. CABG
    b. OP-CABG
    c. ETC
2. Transplant
3. Bridge to transplant
4. Intra-aortic balloon pump
5. Cath lab
6. Cardiac Medications

V. INSTRUCTIONAL MATERIALS

A. Required Text(s):

1. *Egan's Fundamentals of Respiratory Care*, Scanlan, et.al. (current ed); Mosby, 2012 Clinical Assessment in Respiratory Care
2. *Clinical Manifestations in Respiratory Diseases*, Des Jardins (current ed), Mosby
3. American Heart Association ACLS Provider Manual, current edition, AHA

B. Other Resources:

1. Internet Services
2. Clinical Practice Guidelines
3. Medication reference sheet
4. Outside Reading/Research required

VI. METHODS OF PRESENTATION/INSTRUCTION

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

1. Lecture
2. Demonstration
3. Handout Materials
4. Class Participation/Presentations
5. Case Studies and Group Work
6. Guest Presenters
7. Websites
8. Power Point slides and videos
9. Pretests and worksheets
10. Games may be used to augment some of the units.

VII. METHODS OF EVALUATION

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

Discussions/Interactions/Assignments.....10%
Examinations.....50%
Quizzes… 10%
Comprehensive Final Exam.....30%
***AND PASS ON PROFICIENCY**

TOTAL 100%

For grading expectations please see the course information document.

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 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. Absences in excess of four hours may result in failing the course.

B. Must pass all program courses with a C+ to progress to the next term.

Please see course information document for course policies related to grading, expectations, assignments, assessments, and participation.