RESP-260: RESPIRATORY CARE THEORY IV

Effective Term
Fall 2026

CC Approval
12/05/2025

AS Approval
12/11/2025

BOT Approval
12/18/2025

SECTION A - Course Data Elements

Send Workflow to Initiator
No

CB04 Credit Status
Credit - Degree Applicable

Discipline

Minimum Qualifications	And/Or
Respiratory Technologies (Any Degree and Professional Experience)	

Subject Code
RESP - Respiratory Care
Course Number
260

Department
Respiratory Therapy

Division
Health Occupations (HEOC)

Full Course Title
Respiratory Care Theory IV

Short Title
Respiratory Care Theory IV

CB03 TOP Code
1210.00 - *Respiratory Care/Therapy

CIP Code
51.0908

CB08 Basic Skills Status
NBS - Not Basic Skills

CB09 SAM Code
C - Clearly Occupational

Rationale
Fix dangling hours.

SECTION B - Course Description

Catalog Course Description
Students will receive instruction in the monitoring and care of the acutely ill cardiopulmonary patient. The course will cover coronary care, electrocardiogram analysis, and hemodynamic monitoring. Transfers to: CSU.

SECTION C - Conditions on Enrollment

Open Entry/Open Exit
No

Repeatability
Not Repeatable

Grading Options
Letter Grade Only

Allow Audit
Yes

Requisites

Prerequisite(s)
Completion of RESP-200, RESP-210 and RESP-250 with a minimum grade of C.

Corequisite(s)
Concurrent enrollment in RESP-290.

Requisite Justification

Requisite Description
Course Not in a Sequence

Subject
RESP
Course #
200

Level of Scrutiny
Content Review

Upon entering this course, students should be able to:
1. Perform and interpret pulmonary function tests.
2. Interpret advanced cardiopulmonary assessment data.
3. Analyze respiratory care journal articles.
4. Evaluate sleep study results.
5. Evaluate the primary aspects of a pulmonary rehabilitation program.
6. Demonstrate the proper technique of applying respiratory homecare equipment.
7. Describe the normal aging process and its relationship to cardiopulmonary physiology.

Requisite Description
Course Not in a Sequence

Subject
RESP
Course #
210

Level of Scrutiny
Content Review

Upon entering this course, students should be able to:

1. Describe indications for mechanical ventilation.
2. Classify approaches for the initiation of mechanical ventilation.
3. Evaluate the management of patients with various disease processes.
4. Perform monitoring techniques used on patients in the ICU.
5. Differentiate modes of mechanical ventilation.
6. Compare various ventilatory strategies.
7. Describe complications of mechanical ventilation.
8. Discuss intubation avoidance strategies.

Requisite Description

Course in a Sequence

Subject

RESP

Course #

250

Level of Scrutiny

Content Review

Upon entering this course, students should be able to:

1. Set up mechanical ventilators
2. Initiate of mechanical ventilation
3. Manage patients on ventilators with the various disease processes
4. Perform monitoring techniques in the ICU
5. Describe complications of mechanical ventilation
6. preform noninvasive ventilation
7. Evaluate the care of patients on mechanical ventilators.
8. Troubleshoot mechanical ventilators

Requisite Description

Course Not in a Sequence

Subject

RESP

Course #

290

Level of Scrutiny

Closely Related Lecture/Lab Courses

SECTION D - Course Standards

Is this course variable unit?

No

Units

1.50

Lecture Hours

9

Activity Hours

36

Outside of Class Hours
36

Total Contact Hours
45

Total Student Hours
81

Distance Education Approval

Is this course offered through Distance Education?
Yes

Online Delivery Methods

DE Modalities	Permanent or Emergency Only?
Hybrid	Emergency Only

SECTION E - Course Content

Student Learning Outcomes

	Upon satisfactory completion of the course, students will be able to:
1.	Describe cardiac physiology and pathophysiology.
2.	Interpret and apply hemodynamic data, medical and electrical therapy.
3.	Demonstrate proficiency in pediatric life support and advanced cardiac life support.

Course Objectives

	Upon satisfactory completion of the course, students will be able to:
1.	Judge which medications are acceptable for treating cardiac disease.
2.	Compare ECG tracings to determine proper course of therapy.
3.	Assess hemodynamic data.
4.	Apply hemodynamic data to case scenarios.
5.	Construct knowledge of ACLS algorithms.
6.	Compare and contrast the recommended therapies by the American Heart Association to actual patient application.
7.	Operate a defibrillator.
8.	Operate an AE.
9.	Setup the necessary equipment for airway maintenance.
10.	Examine the quality of life vs. continued resuscitative efforts.

Course Content

1. Medications for treating cardiac diseases.
2. ECG tracings that help determine the proper course of therapy.
3. Hemodynamic data.
4. Application of hemodynamic data case scenarios.
5. ACLS & PALS algorithms.
6. Recommended therapies by the American Heart Association to actual patient application.
7. Theory and operation of a defibrillator.
8. Theory and operation of an automated external defibrillator.
9. Equipment for airway maintenance.
10. Quality of life vs. continued resuscitative efforts.

Methods of Instruction

Methods of Instruction

Types	Examples of learning activities
Group Work	Collaborative group study to develop treatment protocol for a variety of pulmonary disease processes.

Discussion	Review, explore, and discuss the indications and contraindications for specific pharmacological treatment regimens for patients suffering cardiopulmonary distress and disease.
Lecture	Examples of lectures include anatomy of the heart, identifying function of the valves, arteries and veins of the heart.

Online Adaptation

Types	Examples of learning activities
Discussion	Review, explore, and discuss the indications and contraindications for specific pharmacological treatment regimens for patients suffering cardiopulmonary distress and disease via online platform.
Group Work	Collaborative group study to develop treatment protocol for a variety of pulmonary disease processes.
Lecture	Examples of lectures include anatomy of the heart, identifying function of the valves, arteries and veins of the heart.

Instructor-Initiated Online Contact Types

Announcements/Bulletin Boards
Chat Rooms
Discussion Boards
E-mail Communication
Telephone Conversations
Video or Teleconferencing

Student-Initiated Online Contact Types

Chat Rooms
Discussions
Group Work

Course design is accessible

Yes

Methods of Evaluation

Methods of Evaluation

Types	Examples of classroom assessments
Exams/Tests	Example of test questions: What are the two major coronary arteries?
Simulation	Case studies in pediatric and adult cardiovascular distress syndromes leading to respiratory and/or cardiac arrest.
Homework	For example: computer program projects that identify the components of heart disease. As well as internet research assignments that ask the student to analyze different heart anomalies.
Lab Activities	Demonstration and hands-on delivery of advanced cardiac life support and pediatric life support activities per AHA.
Other	Minimum standards for passing: Completion of all work at 77% = C grade as required and approved by the Respiratory Care Board and CoARC (Committee on Accreditation for Respiratory Care).

Assignments

Reading Assignments

1. Read chapter four of Egan's Fundamentals of Respiratory Care and identify three respiratory-therapy procedures that carry highest infection.
2. Read the section on airways in Respiratory Care Anatomy and Physiology and outline the renal components of acid-base balance.

Writing Assignments

Students will write about the following:

1. Anatomy of the Heart
2. Electrical Conduction

3. Phases of the Cardiac Cycle
4. The Normal ECG
5. Classification/Basic Interpretation of Dysrhythmias
6. Hemodynamic Monitoring

SECTION F - Textbooks and Instructional Materials

Material Type
Textbook

Author
Stephen F. Wehrman

Title
Fundamentals of Respiratory Care Workbook

Edition/Version
13th

Publisher
Mosby/Elsevier

Year
2024

ISBN #
9780323931991

Material Type
Textbook

Author
Wilkins, Stoller, and Kacmarek

Title
Egan's Fundamentals of Respiratory Care

Edition/Version
13th

Publisher
Mosby/Elsevier

Year
2024

ISBN #
9780323931991

Material Type
Manual

Author
Academy of Pediatrics

Title
Pediatric Advanced Life Support

Publisher
American Heart Association

Year
01-01-2015

Material Type
Manual

Author
American Heart Association

Title
Advanced Cardiovascular Life Support Provider Manual

Publisher
American Heart Association

Year
05-15-2015

SECTION G - Diversity, Equity and Inclusivity

How does your course and/or course outline of record reflect strategies for accommodating and engaging diverse student populations, advancing equitable outcomes, and fostering inclusion for all students?

This course provides students with the opportunity to engage in the application of diversity, equity, and inclusion in previous courses in the program. Students learn to provide quality healthcare to all recipients regardless of ethnic, socioeconomic, religion, or creed. Students will provide equitable care to all patients in a manner consistent with ethical and professional standards of the practice of respiratory care.

Course Codes (Admin Only)

CB00 State ID
CCC000166084

CB10 Cooperative Work Experience Status
N - Is Not Part of a Cooperative Work Experience Education Program

CB11 Course Classification Status
Y - Credit Course

CB13 Special Class Status
N - The Course is Not an Approved Special Class

CB23 Funding Agency Category
Y - Not Applicable (Funding Not Used)

CB24 Program Course Status
Program Applicable

Allow Pass/No Pass
No

Only Pass/No Pass
No