

RESP-220: NEONATAL/PEDIATRIC RESPIRATORY CARE

Effective Term

Fall 2026

CC Approval

02/06/2026

AS Approval

03/12/2026

BOT Approval

03/19/2026

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

220

Department

Respiratory Therapy

Division

Health Occupations (HEOC)

Full Course Title

Neonatal/Pediatric Respiratory Care

Short Title

Neonatal/Pediatric Resp Care

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

Course reviewed and updated.

SECTION B - Course Description

Catalog Course Description

Students will receive instruction in neonatal and pediatric respiratory care. The course will cover fetal lung development, circulatory changes in the newborn, and neonatal and pediatric diseases and treatment. Course will include curriculum leading to professional certifications.

SECTION C - Conditions on Enrollment

Open Entry/Open Exit

No

Repeatability

Not Repeatable

Grading Options

Letter Grade Only

Allow Audit

No

Requisites

Prerequisite(s)

Completion of RESP-185 with a minimum grade of C.

Requisite Justification

Requisite Description

Course Not in a Sequence

Subject

RESP

Course #

185

Level of Scrutiny

Content Review

Upon entering this course, students should be able to:

Completion of RESP-185 with a minimum grade of C.

SECTION D - Course Standards

Is this course variable unit?

No

Units

4.00

Lecture Hours

54.00

Activity Hours

36.00

Outside of Class Hours

126

Total Contact Hours

90

Total Student Hours

216

Distance Education Approval**Is this course offered through Distance Education?**

No

SECTION E - Course Content**Student Learning Outcomes****Upon satisfactory completion of the course, students will be able to:**

1. Discuss neonatal/pediatric physiology and pathophysiology.
2. Describe assessment techniques for the neonatal/pediatric population.
3. Describe and optimize patient-ventilator interactions for neonatal/pediatric population.

Course Objectives**Upon satisfactory completion of the course, students will be able to:**

1. Discuss fetal lung development.
2. Analyze maternal factors that can place fetuses at risk for respiratory problems.
3. Describe tests for fetal wellbeing.
4. Evaluate assessment techniques for the neonate and child.
5. Explain key aspects of neonatal and pediatric diseases.
6. Interpret neonatal and cord blood gases.
7. Manipulate neonatal ventilatory parameters.
8. Interpret and monitor data pertaining to neonatal mechanical ventilation.

Course Content

1. Fetal lung development
2. Maternal factors that can place fetuses at risk for respiratory problems
3. Tests for fetal well-being
4. Assessment technologies for the neonate and child
5. Aspects of neonatal and pediatric diseases
6. Interpret neonatal and cord blood gases
7. Neonatal ventilatory parameters
8. Monitor data pertaining to neonatal mechanical ventilation

Methods of Instruction**Methods of Instruction**

Types	Examples of learning activities
Activity	Some related activity will be completed in an on-line environment (e.g., respiratory care case study or scenario).
Lecture	Lecture will be conducted face-to-face.
Observation and Demonstration	

Methods of Evaluation**Methods of Evaluation**

Types	Examples of classroom assessments
Exams/Tests	Final Exam - Example: Given a neonatal patient scenario, recommend the appropriate therapy. Mid Term
Quizzes	Example: Describe fetal circulation; include the three fetal shunts.

Simulation	Students will demonstrate skills in patient simulations
Class Participation	Classwork to assess knowledge

Assignments

Reading Assignments

Assigned readings from textbooks as:

1. Read chapter 1, Fetal Lung Development, and answer the questions at the end of the chapter.
2. Read the PowerPoint on neonatal assessment and describe the difference between infant and adult vital signs.

Writing Assignments

1. Choose three maternal risk factors and describe the possible negative outcome that could occur.
2. Explain the APGAR and Silverman scoring systems.

SECTION F - Textbooks and Instructional Materials

Material Type

Textbook

Author

AHA and AAP

Title

Neonatal Resuscitation Textbook

Edition/Version

9th

Publisher

American Academy of Pediatrics

Year

2025

Material Type

Textbook

Author

Walsh, Brian, et. al.

Title

Perinatal and Pediatric Respiratory Care

Edition/Version

5th

Publisher

Saunders Elsevier

Year

2019

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?

The course outline of record reflects inclusive practices by detailing flexible instruction, diverse course materials, equitable assessments, and supportive policies that ensure accessibility and engagement for all students.

Course Codes (Admin Only)

CB00 State ID

CCC000552271

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