RESP-175: RESP CARE LABORATORY II

Effective Term
Fall 2026

CC Approval
12/05/2025

AS Approval
12/11/2025

BOT Approval
12/18/2025

SECTION A - Course Data Elements

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
175

Department
Respiratory Therapy

Division
Health Occupations (HEOC)

Full Course Title
Resp Care Laboratory II

Short Title
Resp Care Laboratory II

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
The course will cover airway management, positive pressure ventilation, non-invasive ventilation, Introduction to mechanical ventilation and beginning critical care concepts.

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-120 with a minimum grade of C.

Requisite Justification

Requisite Description
Course Not in a Sequence

Subject
RESP

Course #
120

Level of Scrutiny
Content Review

Upon entering this course, students should be able to:
1. Describe the gas exchange unit of the lung.
2. Discuss the indications and hazards of oxygen therapy.
3. Calculate blood oxygen content given the necessary data.
4. Explain how oxygen and carbon dioxide are transported in the blood.
5. Describe how pulmonary diseases affect lung volumes and capacities.
6. Perform and interpret basic pulmonary function tests.
7. Explain the ways that oxygen and carbon dioxide diffuse across the alveolar-capillary membrane.
8. Perform calculations using Boyle's, Charles's, and Gay-Lussac's laws.
9. Discuss the pressure changes that occur during inspiration and expiration.
10. Analyze arterial blood gas values.

SECTION D - Course Standards

Is this course variable unit?
No

Units
1.50

Lecture Hours
9.00

Lab Hours
54.00

Outside of Class Hours
18

Total Contact Hours
63

Total Student Hours
81

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.	Demonstrate the ability to safely establish, maintain, and manage the airway for individuals with a variety of disease states.
2.	Demonstrate professional behavior appropriate to the laboratory setting.

Course Objectives

	Upon satisfactory completion of the course, students will be able to:
1.	Demonstrate airway management techniques.
2.	Discuss and apply safe practice in airway suctioning.
3.	Explain the effects of positive pressure ventilation on the body.
4.	Discuss and demonstrate safe manual ventilation in a lab setting.
5.	Explain and perform basic techniques for noninvasive and invasive mechanical ventilation.
6.	Describe professional behaviors appropriate to the laboratory setting.

Course Content

1. Airway management techniques.
2. Safe practice in airway suctioning.
3. Effects of positive pressure ventilation on the body.
4. Safe manual ventilation in a lab setting.
5. Basic techniques for noninvasive and invasive mechanical ventilation.
6. Professional behaviors appropriate to the laboratory and clinical setting.

Methods of Instruction

Methods of Instruction

Types	Examples of learning activities
Discussion	Regarding the endotracheal suctioning of an adult.
Lab	Describe the difference between a Miller and a McIntosh blade.
Lecture	You are called to the Emergency Room to get ready for an admission of a motor vehicle accident victim. You are told it is a 34 year old woman with severe injuries. You prepare all the equipment for intubation.

Methods of Evaluation

Methods of Evaluation

Types	Examples of classroom assessments
Exams/Tests	Final Exam, midterm exam.
Quizzes	The most commonly used airway for ventilating a patient with a manual resuscitator is the: A) Nasopharyngeal airway, B) Nasal trumpet, C) Oropharyngeal airway D) Tracheostomy tube.
Lab Activities	Demonstrate safe suctioning technique.

Assignments

Reading Assignments
Chapter 33 (Egan Online) will be assigned the first week of Airway Management.
Read chapter 12 in your laboratory manual and explain three things you learned.

Writing Assignments
Examples:
1. The 20 Question Module Examination will be completed and handed in as proof that you have finished the assignment.
2. Explain why do intubated people need suctioning?

Outside-of-Class Assignments
Evolve (Egan Online) will be used often for assignments and assessments, as well as for email.

SECTION F - Textbooks and Instructional Materials

Material Type
Textbook

Author
Hinski

Title
Respiratory Care Clinical Competency Lab Manual

Edition/Version
1st

Publisher
Elsevier

Year
2014

Material Type
Textbook

Author
Kacmarek, R. M.

Title
Fundamentals of Respiratory Care

Edition/Version
13th

Publisher
Elsevier

Year
2025

Material Type
Other required materials/supplies

Description
1. Egan's Fundamentals of Respiratory Care, 10th Edition, Online course, Mosby Elsevier
2. Uniform, Lab kit

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)

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