North Central State College

MASTER SYLLABUS	2024-2025

A. Academic Division: Health Sciences

B. Discipline: Respiratory Care

C. Course Number and Title: RESP1220 Respiratory Care Equipment & Procedures II

D. Assistant Dean: Heidi Kreglow, PT

E. Credit Hours: 5
Lecture: 4 hours
Laboratory: 3 hours

F. Prerequisites: RESP1110, RESP1190
Co-requisite(s): RESP1270m, RESP1290m

G. Last Course/Curriculum Revision Date: Fall 2023 Origin date: 01/13/2016

H. Textbook(s) Title:

Pilbeam's Mechanical Ventilation: Physiological and Clinical Applications (purchased Spring Semester)
- Author: Cairo, James M.
- Copyright Year: 2023
- Edition: 8th
- ISBN #: 9780323871648

Egan's Fundamentals of Respiratory Care (purchased Fall Semester)
- Authors: Kacmarek, Stoller, and Heuer
- Copyright Year: 2024
- Edition: 13th
- ISBN #: 9780323931991

Egan's Fundamentals of Respiratory Care Workbook (purchased Fall Semester)
- Author: Wehrman, Stephen F.
- Copyright Year: 2024
- Edition: 13th
- ISBN#: 9780323932004

Clinical Practitioner's Pocket Guide to Respiratory Care (purchased Fall Semester)
- Author: Oakes
- Copyright Year: 2008
- Edition: 7th
- ISBN #: 9780932887313

Oakes' Ventilator Management: A Bedside Reference Guide (if not purchased Fall Semester with package, purchase this text Spring Semester)

- Authors: Oakes & Shortall
- Copyright Year: 2009
- Edition:
- ISBN #: 9780932887382

I. Workbook(s) and/or Lab Manual: None

J. Course Description: In this course students will learn techniques and procedures for providing advanced respiratory care: airway management (to include oral/nasal airways, intubation, tracheostomy tubes, cuff inflation, and suctioning), noninvasive positive pressure ventilation, capnography, arterial blood gas analysis, and adult mechanical ventilation (to include indications, hazards, initial set-up, modes, monitoring, troubleshooting, and weaning.) An introduction to patient death, dying, and quality of life issues is included.

K. College-Wide Learning Outcomes:

College-Wide Learning Outcome	Assessments - - How it is met & When it is met
Communication – Written	
Communication – Speech	
Intercultural Knowledge and Competence	
Critical Thinking	
Information Literacy	
Quantitative Literacy	Course Outcomes 1 & 3 Ventilator Competency – Quantitative Literacy VALUE Rubric – week 15

L. Course Outcomes and Assessment Methods:

Upon successful completion of this course, the student shall:

Outcomes	Assessments – How it is met & When it is met
1. For airway management and noninvasive positive pressure ventilation: a. Set up correctly, utilize, and troubleshoot the associated equipment (as available) b. Explain how the equipment and procedure works c. Perform the procedure (as available) d. Recognize and explain the therapeutic objectives, indications, contraindications, and hazards e. Assess a patient scenario (to include patient assessment), select an appropriate therapy, and explain the rationale for the selection	Lab skills testing airway management weeks 3-6, Exam #2. Lab skills testing NIPPV weeks 7-8, Exam #3.
2. For arterial blood gases and capnography a. Assess patient data for indications and contraindications b. Recognize hazards c. Perform sampling d. Interpret results and recommend therapy	Lab skills testing arterial blood gasses weeks 1-2, Exam #1

Outcomes	Assessments – How it is met & When it is met
3. For adult mechanical ventilation: a. Assess patient data for indications for mechanical ventilation in the adult b. Set up and adjust an adult mechanical ventilator using modes and parameters that are appropriate for given situations c. Change ventilator circuits d. Modify settings and troubleshoot an adult mechanical ventilator as appropriate for given situations e. Assess patient data for response to mechanical ventilation f. Assess patient data for discontinuance and choose methods appropriate for given situations	Lab skills testing Weeks 9-15, Exam #4. Math worksheets (Minute ventilation, volume/flow/time, compliance, airway resistance, minute ventilation to PCO2, P/F) week 9 -10. Mechanical Ventilation Journal Article, week 15, VALUE Rubric Written
4. Discuss patient's, family's, and student's own possible responses to a patient's terminal illness and/or imminent or sudden death as well as the diversity of those responses	Death and Dying/Quality of Life Issues Module – week 8

M. Recommended Grading Scale:

NUMERIC	GRADE	POINTS	DEFINITION
93–100	A	4.00	Superior
90–92	A-	3.67	Superior
87–89	B+	3.33	Above Average
83–86	B	3.00	Above Average
80–82	B-	2.67	Above Average
77–79	C+	2.33	Average
73–76	C	2.00	Average
70-72	C-	1.67	Below Average
67–69	D+	1.33	Below Average
63-66	D	1.00	Below Average
60-62	D-	0.67	Poor
00-59	F	0.00	Failure

N. College Procedures/Policies:

North Central State College believes that every student is a valued and equal member of the community.* Every student brings different experiences to the College, and all are important in enriching academic life and developing greater understanding and appreciation of one another. Therefore, NC State College creates an inclusive culture in which students feel comfortable sharing their experiences. Discrimination and prejudice have no place on the campus, and the College takes any complaint in this regard seriously. Students encountering aspects of the instruction that result in barriers to their sense of being included and respected should contact the instructor, assistant dean, or dean without fear of reprisal.

* *Inclusive of race, color, religion, gender, gender identity or expression, national origin (ancestry), military status (past, present or future), disability, age (40 years or older), status as a parent during pregnancy and immediately after the birth of a child, status as a parent of a young child, status as a foster parent, genetic information, or sexual orientation*

Important information regarding College Procedures and Policies can be found on the syllabus supplement located at

https://ncstatecollege.edu/documents/President/PoliciesProcedures/PolicyManual/Final%20PDFs/14-081b.pdf

North Central State College

SYLLABUS ADDENDUM

Academic Division: Health Sciences **Discipline:** Respiratory Care

Course Coordinator: Randee Frangella

Course Number: RESP 1220 **Course Title:** Resp Care Equipment & Procedure II

Semester / Session: Spring 2026 **Start / End Date:** 1/12/2026 – 5/8/2026

Instructor Information

Name: Nychole Rose BSRT, RRT/RCP **Phone Number:** 419-755-4825

E-Mail Address: nrose@ncstatecollege.edu

Office Location: HS-324 **Student Hours:** Monday and Wednesday 10:00-11:50am

I. Topical Timeline (Subject to Change):

Weeks	Topics	
1	Orientation, Arterial Blood Gasses	Read Egan's Chapter 19 and do ABG interpretation Homework
2	ABG continued	Online Quiz and Arterial Blood Gas
3	Capnography	Capnography homework and online Quiz
4	Airway Management- Suctioning	Read Egan's Chapter 37-page 748-753 Airway Management Online Quiz
5	Artificial Airways	Artificial airway and online quiz
6	Intubation/Extubation	
7	Need for Ventilatory Support	Read Egan's Chapter 45- Resp failure and need for ventilatory support
8	Non-Invasive Ventilation	Online quiz and non-invasive ventilation
9	Myasthenia Gravis/Gillian Barre	Exam
10	Death and Dying	
11	Mechanical Ventilation Need for vents	Read Egan's Chapter 46/ Online quiz vent modes
12	MV- Phase I, initiation and adjustment	Phase 1 online quiz
13	MV- Phase II, monitoring and management	Read Egan's chapter 52
14	MV- Phase III, weaning	Phase 2 online quiz
15	MV- putting it all together	Read Egan's chapter 53/ phase 3 online quiz
16		Final exam

II. Course Assignments:

1. Lecture/discussion
2. Homework
3. Lab
4. Quizzes/Exams

III. Grading and Testing Guidelines:

Grading will generally be within 3-5 days of submission due date, unless stated otherwise within the assignment posting or an announcement will be made via Canvas.

Activity	Qty	Points	Percentage
Classroom & Lab Attendance	2	200	20%
Homework & Workbook assignments	22	376	20%
Exams	4	313	50%
Quizzes	7	205	10%

Examination Policy:

Exams will be scheduled and proctored by the instructor, they will be given in the classroom. If you cannot attend your scheduled exam time, you must notify me prior to the exam so that accommodations can be made. Failure to do so will result in an automatic 10% deduction of the exam grade. Make-up exams MUST be taken within one week of original exam date.

IV. Class Attendance and Homework Make-Up Policy:

Attendance to Zoom lecture sessions and face to face (classroom) sessions are mandatory as understanding of the topics covered are essential to your success this semester in this class.

New for Spring 2023: This semester will be a combination of face to face sessions, in the classroom, as well as Zoom lecture sessions. The dates of the face to face sessions will be communicated in advance. Attendance is mandatory for both face to face and zoom sessions.

Students will log into Zoom on time and attendance will be counted for students who remain on camera for the duration of the session and who participate in discussions/answer questions. Students who are seen with the camera turned to off or are routinely out of frame will be counted as absent for the class period. If special accommodations must be made, the student must contact the instructor at least 30 minutes before the class is scheduled to begin.

Homework is due by the date/time posted in Canvas. Assignments that cannot be submitted by the posted due date will be accepted for 3 calendar days following the due date with a 20% reduction in grade earned. Following the 3-day grace period, work submitted late will receive 0 points.

Students who do not attend classes may be administratively withdrawn from those classes. However, failure to attend classes does not constitute withdrawal, and students are expected to process a formal withdrawal though the Student Records Office in Kee Hall.

V. Classroom Expectations:

All students are expected to conduct themselves in a professional and respectful manner with any interaction between student and staff/instructor. This applies to interaction in the classroom, lab, clinical, and online environment as well as your interactions outside of a formal setting while performing work and discussions.