



North Central State College

MASTER SYLLABUS

2026-2027

- A. Academic Division: Health Sciences
- B. Discipline: Respiratory Care
- C. Course Number and Title: RESP1110 Respiratory Care Equipment & Procedures I
- D. Assistant Dean Dr. Jason Tucker, Ph.D.
- E. Credit Hours: 5
Lecture: 4 hours
Laboratory: 3 hours
- F. Prerequisites: Program admission/acceptance and successful completion of developmental education courses
Co-requisite(s): BIOL1730, ENGL1010, RESP1140
- G. Last Course/Curriculum Revision Date: Fall 2023 Origin date: 12/22/2010
- H. Textbook(s) Title:
Required:
Egan's Fundamentals of Respiratory Care
 - Author: Kacmarek, Stoller, and Heuer
 - Copyright Year: 2024
 - Edition: 13th
 - ISBN: 9780323931991
Clinical Manifestations and Assessment of Respiratory Disease
 - Author: DesJardins
 - Copyright Year: 2024
 - Edition: 9th
 - ISBN: 9780323871501
- I. Workbook(s) and/or Lab Manual:
Required:
Egan's Fundamentals of Respiratory Care Workbook
 - Author: Hinski, Stoller and Heuer
 - Copyright Year: 2024
 - Edition: 13th
 - ISBN: 9780323932004

- J. Course Description: In this course students will learn techniques and procedures for providing basic respiratory care: assessment, communication, body mechanics, medical gas supply systems, oxygen therapy, special gas therapy, humidity and aerosol therapy, oxygen analysis, pulse oximetry, blenders, lung expansion therapy, bronchopulmonary hygiene (including coughing techniques), sterilization/infection control procedures, manual resuscitators, use of chest tubes, and basic pulmonary function testing.

- 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	SOAP/Patient Case Study Presentation, week 15. Critical Thinking VALUE Rubric
Information Literacy	
Quantitative Literacy	

- 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. Recognize appropriate and inappropriate communication of patient information according to HIPAA guidelines and standards of the profession	Video training, quiz week #3
2. Lift, move and position patients correctly and safely	Lab exercise/observation, week #3
3. Perform basic cardiopulmonary assessment (to include pulse oximetry and basic spirometry) and recommend appropriate interventions or therapy	Lab skills testing, weeks 1-3. Exam week #4
4. For pulse oximetry, oxygen therapy, blenders, special gas therapies, humidity and aerosol therapy, oxygen analysis, bronchopulmonary hygiene, lung expansion therapy, manual resuscitation, and chest tubes: 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. Evaluate a patient scenario (to include patient assessment), select an appropriate therapy, and explain the rationale for the selection	Lab exercise/observation followed by skill competency, Weeks 5-14, Exams 1 week #4, Exam, 2 week 7, and Exam 3 week 11
5. Compare and contrast various methods of infection control and sterilization.	Online module weeks 2-4
6. Discuss clinical manifestations and assessment of respiratory diseases, determine appropriate plan, and assess outcomes	Online disease modules with assessment quiz weeks 4-15

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	Average
67–69	D+	1.33	Below Average
63–66	D	1.00	Below Average
60–62	D-	0.67	Below Average
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 1110-01 **Course Title:** Respiratory Care Equipment & Procedures I
(also applies to RESP 1110L-01 & 02)
Semester / Session: Fall 2026 **Start / End Date:** 8/17/2026 – 12/11/2026

Instructor Information

Name: Randee Frangella **Credentials:** BSRT, RRT/RCP
Phone Number: 419-755-4849 **E-Mail Address:** rfrangella@ncstatecollege.edu
Office Location: HS-324 **Office Hours:** Tues 11:30-1:30, Thurs 9-12

I. Topical Timeline / Course Calendar (Subject to Change):

Weeks	Topics	Assignment	Assignment Date
1	Orientation, Patient Safety & Communication Infection control & sterilization	Read Egan's Ch 3&4 and complete workbook	08/17/25
2	Protected health information Patient assessment	Professionalism summary	08/24/25
3	Bedside assessment Respiratory diseases	Read Egan's Ch 16 and complete workbook	08/31/25
4	Pulse oximetry Bedside parameters		09/07/25
5	Medical gas therapy Cont. bedside assessment & pulse oximetry Exam #1 review	Read Egan's Ch 42 and complete workbook	09/14/25
6	Exam #1 Oxygen analysis Oxygen delivery devices	Read Egan's Ch 41 and complete workbook	09/21/25
7	Storage and delivery of medical gases Exam #2 review		09/28/25
8	Exam #2 Lung expansion therapy	Read Egan's Ch 43 and complete workbook	10/5/25
9	Humidity and bland aerosol Airway clearance therapy Cont. lung expansion	Read Egan's 39 and complete workbook	10/19/25
10	Cont. airway clearance therapy & humidity/bland aerosol Exam #3 review	Read Egan's Ch 44 and complete workbook	10/26/25
11	Exam #3 Aerosol drug administration	Read Egan's Ch 38 &40 and complete workbook	11/2/25
12	Cont. aerosol drug administration	Read Egan's Ch 21 and complete workbook	11/9/25
13	Chest tubes Thoracic imaging Bag mask ventilation		11/16/25
14	Basic spirometry	Read Egan's Ch 20 and complete workbook	11/23/25
15	Semester review		11/30/25
16	Final exam		12/7/25

Course Number: RESP 1110-01 (RESP 1110L- 02&03)
Semester / Session: Fall 2026

Course Title: Respiratory Care Equipment & Procedure I
Start / End Date: 8/17/2026 – 12/11/2026

II. Grading and Testing Guidelines:

Final Grade Calculation

Activity	Qty	Points	Percentage
Classroom & Lab Attendance	2	200	20%
Homework & Workbook assignments	22	376	20%
Exams	4	313	50%
SOAP Presentation/Journal Article	2	205	10%

III. Examination Policy:

1. The reasons for which a student will be excused from taking an examination
 - a. Hospitalization (with documented verification)
 - b. Death in the immediate family (with documented verification)
 - c. Personal illness or illness in immediate family - (doctor's excuse required).
2. Each student is required to perform each check-off satisfactorily and to complete each assignment. Unsuccessful completion of any procedure check-off will limit your final grade to a maximum of 76%. A maximum of three attempts per check off are permitted.
3. Exams will be scheduled and taken in person. 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 all lecture sessions and lab sessions are mandatory as understanding of the topics covered are essential to your success this semester in class and next semester in clinical.

Attendance will be counted for students who are present for the duration of the session and who participate in discussions/answer questions. 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, to process a formal withdrawal through the Student Records Office.

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