



North Central State College
MASTER SYLLABUS
2019-2020

- A. Academic Division: Health Sciences
- B. Discipline: Respiratory Care
- C. Course Number and Title: RESP1220 Respiratory Care Equipment & Procedures II
- D. Course Coordinator: Sharon Conley, BSRT, RRT, RCP, CHT
Assistant Dean Melinda Roepke, MSN, RN

Instructor Information:

- Name: [Click here to enter text.](#)
- Office Location: [Click here to enter text.](#)
- Office Hours: [Click here to enter text.](#)
- Phone Number: [Click here to enter text.](#)
- E-Mail Address [Click here to enter text.](#)

- E. Credit Hours: 5
Lecture: 4 hours
Laboratory: 3 hours
- F. Prerequisites: RESP1110, RESP1190
Co-requisite(s): RESP1270m, RESP1290m
- G. Syllabus Effective Date: Fall, 2018
- H. Textbook(s) Title:

Egan's Fundamentals of Respiratory Care

- Authors: Kacmarek, Stoller, and Heuer
- Copyright Year: 2016
- Edition: 11th
- ISBN #: 9780323341363

Egan's Fundamentals of Respiratory Care Workbook

- Author: Wehrman, Stephen F.
- Copyright Year: 2016
- Edition: 11th
- ISBN#: 9780323358521

Clinical Practitioner's Pocket Guide to Respiratory Care

- Author: Oakes
- Copyright Year: 2008
- Edition: 7th
- ISBN #: 9780932887313

Oakes' Ventilator Management: A Bedside Reference Guide

- 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: <ol style="list-style-type: none"> 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 <ol style="list-style-type: none"> 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: <ol style="list-style-type: none"> 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 PCO ₂ , 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. Topical Timeline (Subject to Change):

Week 1-2 Arterial Blood Gases & Capnography

Week 3-6 Airway Management

- a. Oral /nasal airways
- b. Endotracheal tubes/intubation/cuff management/ securing artificial airways
- c. Tracheostomy tubes/ speaking valves
- d. Suctioning

Week 7-8 CPAP/BiPAP/ Non-Invasive Ventilation

- a. Death and Dying Module

Week 9-15 Mechanical Ventilation

- a. Critical care ventilators
- b. Modes
- c. Indications and setup
- d. Monitoring/ troubleshooting/hazards
- e. Discontinuing/weaning/extubation
- f. Mechanical Ventilation Journal article

N. Course Assignments:

1. Skills Competency Testing

- a. ABG sampling/ Capnography
- b. Nasotracheal suctioning/ endotracheal suctioning/ tracheal suctioning/ in-line suctioning
- c. Intubation/ securing artificial airway/ cuff management
- d. Non-invasive ventilator set up
- e. Ventilator set up/ routine ventilator check/ ventilator parameter change/ weaning parameters/ extubation

2. Exams

3. Mechanical Ventilation Worksheet

4. Death, Dying & Quality of Life Module

5. Mechanical Ventilation Journal Article

O. 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

P. Grading and Testing Guidelines:

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Q. Examination Policy:

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R. Class Attendance and Homework Make-Up Policy:

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S. Classroom Expectations:

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T. College Procedures/Policies:

Important information regarding College Procedures and Policies can be found on the [syllabus supplement](#) located at <https://sharept.ncstatecollege.edu/committees/1/curriculum/SiteAssets/SitePages/Home/SYLLABUS%20SUPPLEMENT.pdf>

The information can also be found Choose an item.