



North Central State College
MASTER SYLLABUS
2019-2020

- A. Academic Division: Health Sciences
- B. Discipline: Respiratory Care
- C. Course Number and Title: RESP1110 Respiratory Care Equipment & Procedures I
- 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: Program admission/acceptance and successful completion of developmental education courses
Co-requisite(s): BIOL1730, ENGL1010, RESP1140

- G. Syllabus Effective Date: Fall, 2019

- H. Textbook(s) Title:

Egan's Fundamentals of Respiratory Care

- Authors: Kacmarek, Stoller, and Heuer
- Copyright Year 2016
- Edition: 11th
- ISBN #: 978-0-323-34136-3

Egan's Fundamentals of Respiratory Care Workbook

- Author: Wehnman, Stephen F.
- Copyright Year: 2016
- Edition: 11th
- ISBN#: 978-0-323-35852-1

Clinical Practitioner's Pocket Guide to Respiratory Care

- Author: Oakes
- Copyright Year: 2008
- Edition: 7th
- ISBN #: 978-0-932-88731-3

Clinical Manifestations and Assessment of Respiratory Disease

- Author: DesJardins
- Copyright Year: 2016
- Edition: 7th
- ISBN #: 978-0-323-24479-4

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

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	
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: <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. 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

Outcomes	Assessments – How it is met & When it is met
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. Topical Timeline (Subject to Change):

Week 1-5

- Patient assessment
- Pulse oximetry
- Bedside parameters
- Patient safety & communication
- Infection control

Week 5-7

- Medical gas therapy
- O2 analyzing
- Special gas therapy
- Manual resuscitation

Week 8-12

- Lung expansion therapy
- Humidity and bland aerosol
- Broncho-pulmonary hygiene

Week 13-15

- Aerosol drug administration
- Chest tubes
- Basic spirometry

N. Course Assignments:

1. Skills Competency Testing
 - a. Vital signs, chest assessment, pulse oximetry, peak flow
 - b. Isolation procedures, handwashing
 - c. Oxygen therapy: nasal cannula, simple mask, partial rebreather, non-rebreather, air entrainment mask, high flow nasal cannula, transport with oxygen, manual ventilation during transport
 - d. Lung expansion therapy: incentive spirometry, intermittent positive pressure breathing
 - e. Humidification: face tent, face mask, trach collar, t-piece, heat/moisture exchanger, ultrasonic nebulizer
 - f. Broncho-pulmonary hygiene: coughing, chest physiotherapy, mucous clearance adjuncts
 - g. Aerosol drug administration: small volume nebulizer, metered dose inhaler, dry powder inhaler, adult inline metered dose inhaler, adult inline small volume nebulizer
2. Workbook Pages
3. Homework Assignments
4. Exams
5. Clinical Manifestations and Assessment of Respiratory Disease Modules
6. Journal Article Summary Assignment

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.