RESP 260 - Respiratory Care Theory IV Course Outline

Approval Date: 05/10/2018
Effective Date: 06/01/2018

SECTION A

Unique ID Number	CCC000166084
Discipline(s)	Respiratory Technologies
Division	Health Occupations
Subject Area	Respiratory Care
Subject Code	RESP
Course Number	260
Course Title	Respiratory Care Theory IV
TOP Code/SAM Code	1210.00 - Respiratory Care Therapy/Therapist* / C - Occupational
Rationale for adding this course to the curriculum	Include mandatory Pediatric Life Support & Advanced Cardiac Life Support training and certification the course as required by Commission on Accreditation for Respiratory Care.
Units	1.5
Cross List	*N/A*
Typical Course Weeks	18

Total Instructional Hours

	Contact Hours
Lecture	18.00
Lab	36.00
Activity	0.00
Work Experience	0.00
Outside of Class Hours	36.00

Total Contact Hours	54
Total Student Hours	90

Open Entry/Open Exit	No
Maximum Enrollment	30
Grading Option	Letter Grade Only
Distance Education Mode of Instruction	Hybrid more than 50%

SECTION B

General Education Information:

SECTION C

Course Description

Repeatability May be repeated 0 times

Catalog Description Students will receive instruction in the monitoring and care of the acutely ill cardiopulmonary patient. The course will cover coronary care, electrocardiogram analysis, and hemodynamic monitoring. Transfers to: CSU

Schedule Description

SECTION D

Condition on Enrollment

1a. Prerequisite(s)

- RESP 210 with a minimum grade of C or better
- RESP 250 with a minimum grade of C or better
- RESP 200 with a minimum grade of C or better

1b. Corequisite(s)

- RESP 290

1c. Recommended: *None*

1d. Limitation on Enrollment: *None*

SECTION E

Course Outline Information

1. Student Learning Outcomes:

A. 1. Describe cardiac physiology and pathophysiology. 2.Interpret and apply hemodynamic data, medical and electrical therapy. 3.Demonstrate proficiency in pediatric life support and advanced cardiac life support.

2. Course Objectives: Upon completion of this course, the student will be able to:

A. Judge which medications are acceptable for treating cardiac disease. 2. Compare ECG tracings to determine proper course of therapy. 3. Assess hemodynamic data. 4. Apply hemodynamic data to case scenarios. 5. Construct knowledge of ACLS algorithms. 6. Compare and contrast the recommended therapies by the American Heart Association to actual patient application. 7. Operate a defibrillator. 8. Operate an AED. 9. Setup the necessary equipment for airway maintenance. 10. Examine the quality of life vs. continued resuscitative efforts.

B.

3. Course Content

1. Medications for treating cardiac diseases.
2. ECG tracings that help determine the proper course of therapy.
3. Hemodynamic data.
4. Application of hemodynamic data case scenarios.
5. ACLS & PALS algorithms
6. Recommented therapies by the American Heart Association to actual patient application.
7. Theory and operation of a defibrillator.
8. Theory and operation of an automated external defibrillator.
9. Equipment for airway maintenance.
10. Quality of life vs. continued resuscitative efforts.

4. Methods of Instruction:

Directed Study:
Discussion:
Distance Education:
Lab:
Lecture:
Other: Examples of lectures include: Anatomy of the heart. Identifying function of the valves, arteries and veins of the heart.

5. Methods of Evaluation: Describe the general types of evaluations for this course and provide at least two, specific examples.

Typical classroom assessment techniques

Exams/Tests -- Examples of test type of questions:What are the two major coronary arteries?

Simulation -- Case studies in pediatric and adult cardiovascular distress syndromes leading to respiratory and/or cardiac arrest.

Home Work -- Examples of types of Homework: Computer program projects that identify the components of heart disease. As well as internet research assignments that ask the student to analyze different heart anomalies.

Lab Activities -- Demonstration and hands-on delivery of advanced cardiac life support and pediatric life support activities per AHA.

Additional assessment information:

Minimum standards for passing: Completion of all work at 77% = C grade as required and approved by the Respiratory Care Board and CoARC (Committee on Accreditation for Respiratory Care).

Letter Grade Only

6. Assignments: State the general types of assignments for this course under the following categories and provide at least two specific examples for each section.

A. Reading Assignments
Reading assignments will be assigned from the following textbooks: Egan?s Fundamentals of Respiratory Care, 8th Ed, Wilkins Egans? Fundamentals of Respiratory Care, 8th Ed, Workbook, Wehrman Respiratory Care Anatomy and Physiology, 2nd Ed, Beachey

B. Writing Assignments
Students will write about the following:1. Anatomy of the Heart 2. Electrical Conduction 3. Phases of the Cardiac Cycle 4. The Normal ECG 5. Classification/Basic Interpretation of Dysrythmias 6. Hemodynamic Monitoring

C. Other Assignments
None.

7. Required Materials

A. EXAMPLES of typical college-level textbooks (for degree-applicable courses) or other print materials.

Book #1:

Author:	Stephen F. Wehrman
Title:	Fundamentals of Respiratory Care Workbook
Publisher:	Mosby/Elsevier
Date of Publication:	2014
Edition:	11th edition

Book #2:

Author:	Wilkins, Stoller, and Kacmarek.
Title:	Egan's Fundamentals of Respiratory Care
Publisher:	Mosby/Elsevier
Date of Publication:	2014
Edition:	11th
Manual #1:	
Author:	Academy of Pediatrics
Title:	Pediatric Advanced Life Support
Publisher:	American Heart Association
Date of Publication:	01-01-2015
Manual #2:	
Author:	American Heart Association
Title:	Advanced Cardiovascular Life Support Provider Manual
Publisher:	American Heart Association
Date of Publication:	05-15-2015

B. Other required materials/supplies.