GROSSMONT COLLEGE

Official Course Outline

RESPIRATORY THERAPY 108 – BASIC RESPIRATORY THERAPY EQUIPMENT, PROCEDURES AND LIFE SUPPORT SYSTEMS

1. Course Number Course Title Semester Units Semester Hours

RESP 108 Basic Respiratory Therapy 5 3 hours lecture: 48-54 hours

Equipment, Procedures and 6 hours lab: 96-108 hours

Life Support Systems 96-108 outside-of-class hours

for lecture

240-270 total hours

2. Course Prerequisites

Admission to the Respiratory Therapy Program

Corequisite

A “C” grade or higher or concurrent enrollment in Respiratory Therapy 105 and 112 and 114

Recommended Preparation

None.

3. Catalog Description

This course is designed to introduce the student to basic patient assessment, equipment, and procedures used in respiratory therapy. Equipment principles of operation, proper care and maintenance, and trouble-shooting are included. Education of diverse patient populations, proper infection control techniques, and patient care plans are introduced. Simulation and laboratory exercises are integrated into the course in order to improve the students’ ability to manage patients, promote critical thinking and decision-making skills, and to improve communication and technical skills.

4. Course Objectives

The student will:

1. Summarize physical concepts and describe how these concepts relate to cardiopulmonary assessments, techniques, and equipment studied in this course
2. Evaluate techniques and findings for cardiopulmonary assessments
3. Demonstrate appropriate technique for cardiopulmonary assessment

d. Apply principles of effective body mechanics

e. Evaluate the need for and the effectiveness of the following modalities and techniques: secretion mobilization, oxygen administration, aerosol and hyperinflation therapy, airway emergencies and care

f. Formulate an education plan to optimize patient understanding and compliance with respiratory modalities

g. Evaluate infection control practices and recommend changes or additions.

h. Demonstrate the appropriate method for administering, evaluating, respiratory modalities to the hospitalized patient

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5. Instructional Facilities

1. Standard classroom

b. Respiratory Therapy skills laboratory with respiratory care equipment and supplies

c. Computer laboratory

d. High fidelity simulation lab

6. Special Materials Required of Student

a. Calculator.

b. Access to computer, printer, and scanner

c. Appropriate clinical attire as described in the Student Handbook.

d. Watch with second hand

e. Stethoscope

f. Grossmont College Respiratory Therapy student name tag.

g. Small scissors

h. Grossmont College Respiratory Therapy badge buddy.

i. DataArc license agreement [www.dataarc.ws](http://www.dataarc.ws)

7. Course Content

1. Basic physical science concepts.
2. Manufacture, storage, safety and regulation of gas flow of medical gases.
3. Oxygen administration.
4. Humidity/aerosol therapy
5. Body mechanics
6. Chest physiotherapy
7. Hyperinflation therapy
8. Airway care
9. Patient communication and education

j. Record keeping and documentation

k. Clinical assessment

l. Emergency procedures to assist patients during respiratory or cardiac arrest, or difficulty breathing

m. Control of organisms in the hospital environment

n. Basic critical care techniques utilized in the care of hospitalized patients

8. Methods of Instruction

a. Lecture

b. Clinical simulation and lab exercises

c. Multimedia resources such as virtual simulation programs and video presentations

d. Role playing

e. Group discussions

f. Demonstration

g. Critical thinking activities such as concept mapping and graphic organizers

h. Student presentations

i. Analysis of case studies

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9. Methods of Evaluating Student Performance

a. Evidence based research assignments on topics such as cardiopulmonary disease, procedures, and clinical best practices

b. Written examinations including a comprehensive final examination

c. Quizzes

d. Verbal questioning

e. Written assignments such as short answer questions, lab reports, interpretation of lab data, and peer review

f. Case studies

k. Oral and visual presentations

10. Outside Class Assignments

a. Written assignments such as journal entries, discussion boards, student assessment questions, and peer tutoring

b. Reading assignments such as textbook and journal articles

c. Critical thinking exercises related to lab exercises.

11. Texts

1. Required Text(s):

Kacmarek, Robert M. et. Al. *Egan’s Fundamentals of Respiratory Care*. 11th edition. St. Louis, MO: Elsevier, 2017

b. Supplementary texts and workbooks:

(1) Kacmarek, Robert M. et. Al*. Workbook Egan’s Fundamentals of Respiratory Care*. 11th edition. St. Louis, MO: Elsevier, 2017

(2) Department of Respiratory Therapy. *Grossmont College Respiratory Therapy Student Handbook*. El Cajon, CA: Grossmont College 2018/2019

Addendum: Student Learning Outcomes

Upon completion of this course, our students will be able to do the following:

Evaluate signs and symptoms from a patient scenario and recommend appropriate respiratory modalities.

Date approved by the Governing Board: May 21, 2019