GROSSMONT COLLEGE

Official Course Outline

RESPIRATORY THERAPY 114 – CARDIOPULMONARY PHARMACOLOGY

1. Course Number Course Title Semester Units Semester Hours

RESP 114 Cardiorpulmonary 2 2 hours lecture: 32-36 hours

Pharmacology 64-72 outside-of-class hours 96-108 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 108 and 112.

Recommended Preparation

None.

3. Catalog Description

This course is designed for the Respiratory Therapy student. Major emphasis will be given to cardiac, cardiovascular, and pulmonary drugs. Specific drugs in these categories will be addressed in terms of action, indication, possible allergic reactions and contraindications.

4. Course Objectives

The student will:

a. Differentiate the various pulmonary drugs including their action, dosage, and side effects.

b. Appraise the effectiveness of pulmonary drugs.

c. Propose the appropriate cardiopulmonarydrugs given a patient scenario.

d. Assess the cardio-respiratory medication effectiveness of a given patient scenario.

e. Summarize the appropriate cardiac, cardiovascular and respiratory drugs to be given during exacerbations of various disease states.

5. Instructional Facilities

a. Standard classroom.

b. Computer laboratory

6. Special Materials Required of Student

1. Appropriate clinical attire as specified in the Student Handbook
2. Watch with second hand

c. Stethoscope

d. Small scissors

e. Calculator

f. Computer, printer, and scanner access

g. Grossmont College Respiratory Therapy Badge Buddy

h. Grossmont College Respiratory Therapy student identification badge

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7. Course Content

1. Cardiovascular and Pulmonary medications.

(1) Indications.

(2) Actions.

(3) Side effects.

(4) Hazards.

(5) Interactions.

(6) Contraindications.

b. Drug classifications.

(1) General categories.

(2) Specific drug types.

c. Patient scenarios

8. Method of Instruction

a. Lecture.

b. Class and group discussion.

c. Analysis of case studies

d.Multimedia presentations such as DVDs or virtual simulation programs

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

9. Methods of Evaluating Student Performance

a. Written examinations including a comprehensive final exam~~.~~

b. Evidence based research paper or assignments on topics such as cardiopulmonary medications and delivery methods

c. Verbal questioning

d. Written assignments such as short answer questions and interpretation of lab data

e. Oral and visual presentations on topics such as cardiopulmonary medications and delivery methods

10. Outside Class Assignments

a. Viewing and/or reading of handouts and PowerPoints

b. Reading assignments including textbook, medical journal articles and case studies

c. Viewing of online resources and educational videos

11. Texts

a. Required text(s):

Gardenhire, Douglas. *Rau’s Respiratory Care Pharmacology*. 9th ed. St. Louis, MO: Mosby, 2015.

b. Supplementary texts and workbooks:

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:

Recommend the appropriate drug, dose, and route of administration for a patient with cardiopulmonary disease.

Date approved by the Governing Board: May 21, 2019