GROSSMONT COLLEGE

Official Course Outline

# RESPIRATORY THERAPY 201 – CARDIOPULMONARY PATHOLOGY AND PATHOPHYSIOLOGY

1. Course Number Course Title Semester Units Semester Hours

RESP 201 Cardiopulmonary Pathology 4 4 hours lecture: 64-72 hours

and Pathophysiology 128-144 outside-of-class hours

192-216 total hours

2. Course Prerequisites

A “C” grade or higher Respiratory Therapy 116 and 118 and 122 and 150 or equivalent.

Corequisite

A “C” grade or higher or concurrent enrollment in Respiratory Therapy 208 and 222

Recommended Preparation

None.

3. Catalog Description

This course is an introduction to basic respiratory pathology and resulting abnormal physiology. The role of the respiratory therapist in management of cardiorespiratory disease entities commonly found in the general care environment, in the intensive care unit, and in the home care setting is developed. Emphasis is placed on the pathological processes.

4. Course Objectives

The student will:

a. Compare and contrast the components of homeostasis and disease as a process.

b. Distinguish the components of the respiratory therapy process.

c. Apply the principles of clinical assessment.

d. Evaluate the management and therapeutic regimen of the patientbased on patient assessment and patient driven protocols.

e. Diagram the pathophysiology of various cardiopulmonary diseases

f. Summarize the clinical manifestations, etiology, patient presentation, treatment and therapeutic interventions of various cardiopulmonary diseases

g. Gather the appropriate data from patient case scenarios according to the SBAR reporting form in order to identify a patient problem and suggest and effective treatment plan

5. Instructional Facilities

a. Standard classroom.

b. Respiratory Therapy skills laboratory

c. High fidelity simulation lab

d. Computer laboratory

6. Special Materials Required of Student

1. Appropriate clinical attire as described in the Student Handbook
2. Watch with second hand
3. Stethoscope
4. Small scissors
5. Calculator
6. Computer and printer access
7. Grossmont College student name tag
8. Grossmont College Badge Buddy

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7. Course Content

1. Assessment of the pulmonary patient is made utilizing laboratory tests radiological data, as well as the history and physical.
2. Obstructive diseases, such as chronic bronchitis, emphysema, bronchiectasis, COPD, restrictive disorders, such as pulmonary consolidations, tumors, fibrosis, tuberculosis, pneumonia, and ADS
3. Management of pulmonary vascular disorders, pleural effusions, pneumothorax.
4. Description of chest wall and diaphragm disorders.
5. Clinical signs and symptoms, clinical manifestation, etiology, pathology and pathophysiology ofthe disease process to formulate a Respiratory Care Plan for both hospitalized and home care patients.

8. Method of Instruction

a. Lecture.

b. Analysis of case studies

c. Class and group discussions

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

e. Multimedia presentationssuch as DVDs or virtual simulation programs

9. Methods of Evaluating Student Performance

a. Quizzes.

b. Written examinations including a comprehensive final exam.

c. Verbal questioning.

d. Written assignments such as short answer questions, case studies, interpretation of lab data, and research paper

e. Oral and visual presentations

10. Outside Class Assignments

1. Reading assignments including textbook, medical journal articles, case studies, and PowerPoints
2. Viewing of online resources and educational videos
3. Preparation of collaborative evidence-based presentations about patient assessment techniques and interpretation
4. Written assignments such as short answer questions and discussion boards

11. Texts

a. Required Text(s):

Des Jardin, T. and Burton, G. *Clinical Manifestations and Assessment of Respiratory Disease*. 7th edition. St. Louse, MO: Elsevier, 2015

b. Supplementary texts and workbooks:

Department of Respiratory Therapy.  *Grossmont College Respiratory Therapy 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:

Compare specific physiology and pathophysiology of obstructive and restrictive diseases and create a plan of care according to patient driven protocols and patient assessment.

Date approved by the Governing Board: May 21, 2019