GROSSMONT COLLEGE

Official Course Outline

# RESPIRATORY THERAPY 150 – NEONATAL PEDIATRIC RESPIRATORY CARE

1. Course Number Course Title Semester Units Semester Hours

RESP 150 Neonatal Pediatric 3 3 hours lecture: 48-54 hours

Respiratory Care 96-108 outside-of-class hours 144-162 total hours

2. Course Prerequisites

A “C” grade or higher in Respiratory Therapy 105 and 108 and 112 and 114 or equivalent.

Corequisite

A “C” grade or higher or concurrent enrollment inRespiratory Therapy 116 and 118 and 122.

Recommended Preparation

None.

3. Catalog Description

This course is designed to familiarize the respiratory therapy student with the knowledge necessary to care for pediatric and neonatal patient populations. Pediatric, infant, and neonatal physiology, pathophysiology, clinical manifestations, management and treatment in acute and critical care are emphasized.

4. Course Objectives

The student will:

a. Compare and contrast normal versus abnormal physiological development.

b. Assess the cardiopulmonary changes that occur during and after birth.

c. Choose age appropriate assessment and monitoring techniques for use in pediatric, infant and neonate patients.

d. Recommend and prioritize age appropriate respiratory care interventions for neonates, infants and pediatric patients.

e. Select respiratory therapy modalities to manage and treat conditions and or diseases afflicting the pediatric, infant, and neonatal patient populations.

5. Instructional Facilities

Standard classroom

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 student name tag

g. Small scissors

h. Grossmont College RT badge buddy

# RESPIRATORY THERAPY 150 – NEONATAL PEDIATRIC RESPIRATORY CARE page 2

7. Course Content

1. Patient assessment, pharmacology, equipment selection, and evidence based medicine for pediatric, infant, and neonatal patients
2. Fetal development and transition to extrauterine life
3. Resuscitation of the newborn, infant, and pediatric patient
4. Lung diseases and complications of perinatal, neonatal, infant, and pediatric patients
5. Ethics, palliative and end-of-life-care for neonatal, infant, and pediatric patients

8. Method of Instruction

a. Lecture

b. Class and group discussion

c. Multimedia presentations such as DVDs or virtual simulation programs

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

e. Analysis of case studies

f. Demonstrations such as neonatal resuscitation and oxygen delivery

9. Methods of Evaluating Student Performance

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

b. Written examinations including a comprehensive final exam

c. Quizzes

d. Verbal questioning

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

f. Case studies

g. 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. Collaborative evidence-based presentations about pediatric and neonatal topics such as near drowning, or cystic fibrosis
4. Written research paper on pediatric or neonatal diseases

11. Texts

a. Required Text(s):

*Textbook of Neonatal Resuscitation.*7th edition, American Academy of Pediatrics and American Heart Association, 2016.

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:

Develop a safe and competent plan of care for this age specific population.

Date approved by the Governing Board: May 21, 2019