GROSSMONT COLLEGE

Official Course Outline

RESPIRATORY THERAPY 118 – CRITICAL CARE LIFE SUPPORT EQUIPMENT AND PROCEDURES

1. Course Number Course Title Semester Units Semester Hours

RESP 118 Critical Care Life Support 4.5 3 hours lecture: 48-54 hours

Equipment and Procedures 4.5 hours lab: 72-81 hours

96-108 outside-of-class hours

for lecture

216-243 total hours

2. Prerequisites

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

Corequisite

A “**C”** grade or higheror concurrent enrollment in Respiratory Therapy 116 and 122 and 150.

Recommended Preparation

None.

3. Catalog Description

This course exploresadvanced concepts of respiratory therapy equipment and therapeutic procedures with emphasis on complex principles of equipment operation and care, quality control and advanced therapeutic techniques as employed in the critical care environment. Special emphasis is placed on life support systems. Variations in ventilation oxygenation and current weaning techniques are discussed for various disease entities.

4. Course Objectives

The student will:

a. Identify the signs and symptoms of acute respiratory failure.

b. Select the appropriate artificial airway or patient interface for instituting both invasive and noninvasive positive pressure ventilation.

c. Initiate and manipulate various mechanical ventilators in order to maintain clinical goals and patient homeostasis

d. Assess relevant patient data and recognize the indication and appropriateness of discontinuance of positive pressure ventilation

5. Instructional Facilities

1. Standard classroom.
2. Respiratory Therapy skills laboratory with respiratory care equipment and supplies

c. Computer laboratory

d. High fidelity simulationlab

6. Special Materials Required of Student

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

**d.** Calculator

e. Computer and printer access

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

g. Grossmont College RT ID badge

h. Grossmont College Badge Buddy

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7. Course Content

a. Critical care techniques and patient care procedures.

b. Mechanical ventilation indications, application, contraindications and hazards

c. Mechanical ventilation equipment theory

d Monitoring and assessment of the critically ill patient

e. Discontinuance of the mechanical ventilation

8. Method of Instruction

a. Lecture.

b. Clinical simulation and lab exercises

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

d. Demonstrations

e. Class and group discussion.

f. Role playing

g. Analysis of case studies through lecture, discussion, and group work.

h. Student presentations

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

9. Methods of Evaluating Student Performance

a. Quizzes

b. Written examinations including a comprehensive final examination

c. Evidence based research assignments on topics such as cardiopulmonary procedures and clinical best practices

d. Verbal questioning

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

f. Oral and visual presentations

g. Interdisciplinary activities such as code blue day and hospital day

10. Outside Class Assignments

a. Critical thinking exercises related to the lab exercises

b. Reading assignments such as textbook and journal articles

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

11. Texts

a. Required Text(s):

Pilbeam, Susan. *Mechanical Ventilation*. St. Louis, MO: Elsevier, 6th ed. 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:

Accurately identify acute respiratory failure in a critically ill patient and appropriately select and manipulate ventilation mode and settings to maintain patient homeostasis.

Date approved by the Governing Board: May 21, 2019