

RSPT 55D: MEDIATED STUDIES IN RESPIRATORY THERAPY IV

Foothill College Course Outline of Record

Heading	Value
Units:	0.5
Hours:	2 laboratory per week (24 total per quarter)
Prerequisite:	RSPT 55C.
Degree & Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Student Learning Outcomes

- Interprets waveforms accurately.
- Distinguishes between the different modes of ventilation.

Description

Fourth of seven courses paralleling content taught in courses in the Respiratory Therapy Program. Content to include invasive and non-invasive ventilation strategies and management, arterial blood gases, and innovative approaches to the management of ARDS. Develop and strengthen concepts taught in the concurrent lecture and laboratory sessions of the program. Intended for students in the Respiratory Therapy Program; enrollment is limited to students accepted in the program.

Course Objectives

The student will be able to:

- Demonstrate and describe the following skills:
 - PB840 ventilator module
 - Capnography and other diagnostic devices
 - Arterial blood gases part I and II
 - Weaning from mechanical ventilation
 - Non-invasive PPV in acute respiratory failure
 - Innovative approaches to the management of ARDS
 - Volume vs. pressure control
 - Ventilator induced lung injury
 - Management of oxygen
 - Permissive hypercapnia
 - Auto-peep

Course Content

- PB840 ventilator online training module
- Capnography computer module
- Arterial blood gases part I and II training modules
- Weaning from mechanical ventilation computer module
- Non-invasive PPV in acute respiratory failure computer module
- Innovative approaches to the management of ARDS computer module
- Volume vs. pressure control MidiSim computer module
- Ventilator induced lung injury MidiSim computer module

- Management of oxygen MidiSim computer module
- Permissive hypercapnia MidiSim computer module
- Auto-peep MidiSim computer module

Lab Content

- PB840 ventilator
- Capnography
- Arterial blood gases part I and II
- Weaning from mechanical ventilation
- Non-invasive PPV in acute respiratory failure
- Innovative approaches to the management of ARDS
- Volume vs. pressure control
- Ventilator induced lung injury
- Management of oxygen
- Permissive hypercapnia
- Auto-peep

Special Facilities and/or Equipment

- Computer and a network printer

Method(s) of Evaluation

- Computer administered and scored examinations.
- Quizzes.

Method(s) of Instruction

- Interactive computer based learning.
- Media materials will provide an alternative learning resource for non-traditional students.

Representative Text(s) and Other Materials

Kacmarek, Stoller, and Heuer. [Mosby's Respiratory Care Online for Egan's Fundamentals of Respiratory Care](#). 2nd ed. St. Louis: C.V. Mosby Co., 2013. ISBN 9780323084932

Although this text is older than the suggested "5 years or newer" standard, it remains a seminal text in this area of study.

Types and/or Examples of Required Reading, Writing, and Outside of Class Assignments

- Interactive computer modules.

Discipline(s)

Respiratory Technologies