

RESP 2140 - Advanced Critical Care Monitoring (version 201003L)

Course Title Course Development Learning Support

Advanced Critical Care Monitoring Standard No

Course Description

Provides a study of advanced critical care techniques for hemodynamic and non invasive monitoring. Topics include: arterial pressure monitoring, central venous catheters, pulmonary artery catheters, cardiac output measurement, and non invasive monitoring techniques.

Pre-requisites

Pre-requisites: All Required

RESP 1120 - Introduction to Respiratory Therapy (201003L)
RESP 1130 - Respiratory Therapy Lab I (201003L)
RESP 1193 - Cardiopulmonary Anatomy and Physiology (201003L)

Regstr. Co-requisites

Regstr. Co-requisites: None

True Co-requisites

True Co-requisites: None

Course Length

	Lecture Contact Time	Regular Lab Type	Reg. Lab Contact Time	Other Lab Type	Oth. Lab Contact Time	Total Contact Hrs
Contact Hours Per Week	0 hrs	Lab	2 hrs	N/A	0 hrs	2 hrs
Contact Min/Hrs Per Semester	0 min		1500 min		0 min	30 hrs
	Lecture Credit Hours	Lab Credit Hours	Total Credit hours			WLU
Semester Credit Hours	0	1	1			37.5

Competencies & Outcomes

Order Description

1 Arterial Pressure Monitoring

Order	Description	Learning Domain	Level of Learning
1	Review the anatomical and physiological principles associated with arterial pressure monitoring.	Cognitive	Comprehension
2	Discuss arterial pressure monitoring indications and hazards.	Cognitive	Comprehension
3	Explain the measured value significance of arterial pressure monitoring.	Cognitive	Comprehension
4	Compute pressures.	Cognitive	Application

2 Central Venous Catheters

Order	Description	Learning	Level of
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		Domain	Learning
1	Review the anatomical and physiological principles associated with central venous catheters.	Cognitive	Comprehension
2	Discuss central venous catheter indications and hazards.	Cognitive	Comprehension
3	Explain the measured value significance of central venous catheters.	Cognitive	Comprehension

3 Pulmonary Artery Catheters

Order	Description	Learning Domain	Level of Learning
1	Review the anatomical and physiological principles associated with pulmonary artery catheters.	Cognitive	Comprehension
2	Discuss pulmonary artery catheter indications and hazards.	Cognitive	Comprehension
3	Explain the measured value significance of pulmonary artery catheters.	Cognitive	Comprehension
4	Compute values.	Cognitive	Application

4 Cardiac Output Measurement

Order	Description	Learning Domain	Level of Learning
1	Review the anatomical and physiological principles associated with cardiac output measurement.	Cognitive	Comprehension
2	Discuss cardiac output measurement indications and hazards.	Cognitive	Comprehension
3	Explain the measured value significance of cardiac output measurement.	Cognitive	Comprehension
4	Compute values.	Cognitive	Application

5 Noninvasive Monitoring Techniques

Order	Description	Learning Domain	Level of Learning
1	Review the anatomical and physiological principles associated with noninvasive monitoring techniques.	Cognitive	Comprehension
2	Discuss noninvasive monitoring technique indications and hazards.	Cognitive	Comprehension
3	Explain the measured value significance of noninvasive monitoring techniques.	Cognitive	Comprehension