

Spokane Community College

COURSE LEARNING OUTCOMES (CLO) AND OUTLINE

Course Title: Pediatrics/Neonatal RT

Prefix and Course Number: RT 401

Version Date: Fall 2024

Course Learning Outcomes

By the end of this course, a student should be able to:

1. Describe fetal lung development, gas exchange, and circulation.
2. Discuss antenatal assessment and high-risk deliveries.
3. Apply stabilization and resuscitation standards from the Neonatal Resuscitation Program (NRP).
4. Perform physical examination and evaluation of the neonatal and pediatric patient.
5. Correctly interpret abnormal neonatal and pediatric arterial blood gases and make evidence-based recommendations to the plan of care.
6. Recognizes normal and abnormal laboratory values and state their significance in the care of neonatal and pediatric patients.
7. Discuss neonatal and pediatric diseases relating to respiratory care.
8. Discuss congenital cardiac defects relating to respiratory care.
9. Recommend, initiate, monitor, and make changes to oxygen therapy and continuous positive airway pressure (CPAP) devices.
10. Recommend, initiate, monitor, and make changes to mechanical ventilators in neonatal and pediatric patients.
11. Recommend, initiate, monitor, and make changes to high-frequency ventilators in neonatal and pediatric patients.
12. Attend a Respiratory Cares Society of Washington (RCSW) conference.

Course Outline:

- I. Fetal lung development, gas exchange, and circulation.
- II. Antenatal assessment and high-risk delivery.
- III. Neonatal and pediatric patient assessment.
- IV. Normal laboratory values in neonatal and pediatric patients.
- V. Blood gas analysis and interpretation in neonatal and pediatric patients.
- VI. Selected neonatal pulmonary disorders.
- VII. Selected surgical disorders affecting neonates.
- VIII. Selected pediatric pathophysiology.
- IX. Congenital cardiac defects.
- X. Oxygen therapy and continuous positive airway pressure (CPAP).
- XI. Invasive mechanical ventilation of the neonatal and pediatric patient.
- XII. High-frequency ventilation.
- XIII. Respiratory Cares Society of Washington (RCSW) conference.