

**Bossier Parish community College
Master Syllabus**

Course and Prefix Number: RSTH 270

Credit Hours: 3

Course Title: Neonatology/ Pediatric Respiratory Care

Course Prerequisites: RSTH 202, RSTH 204, RSTH 210, RSTH 220, RSTH 226

Textbook: Neonatal and Pediatric Respiratory Care by Brian Walsh; Elsevier, latest edition.

Course Description:

A survey of fetal and neonatal development and an overview of cardiopulmonary problems commonly seen in the neonatal and pediatric population; introduction to the care of the critically ill neonate and pediatric patient in the acute care environment. Enrollment in Respiratory Therapy courses is limited to students who have applied, been interviewed and have been selected for the Respiratory Therapy clinical program.

Learning Outcomes:

At the end of this course the student will

- A. demonstrate the knowledge required to successfully interpret data and provide suggestive intervention appropriate in the neonatal and pediatric intensive care unit patient population sufficient to pass the Neonatal/ Pediatric Specialty Exam administered by the National Board of Respiratory Care.

To achieve the learning outcomes, the student will

1. describe prenatal and postnatal growth and development. (A)
2. recognize and describe treatment of high risk deliveries. (A)
3. recognize perinatal events and problems. (A)
4. demonstrate knowledge of physical and cardiopulmonary assessment techniques. (A)
5. demonstrate knowledge of diagnostic and monitoring procedures. (A)
6. describe and develop management strategies to optimize pulmonary pathophysiology responses in critically ill neonates and pediatric patients. (A)
7. identify cardiovascular disorders. (A)
8. describe neurological and neuromuscular diseases. (A)
9. demonstrate knowledge of bronchial hygiene and oxygen therapy procedures. (A)
10. utilize CPAP and mechanical ventilation procedures. (A)
11. describe emergency and resuscitative procedures. (A)
12. describe transport procedures. (A)
13. describe home health care modalities. (A)
14. utilize high frequency oscillators and high frequency ventilators (A)
15. demonstrate competency in the performance of:

BLOOD GASES

- a. Capillary Sampling
- b. UAC Sampling

PEDIATRIC AND NEONATAL

- a. Routine Ventilator Check (Conventional and Non-Conventional)
- b. Non-Invasive Ventilation
- c. Adjusting Ventilation (Conventional and Non-Conventional)
- d. Weaning
- e. Ventilator Circuit Change (Conventional and Non-Conventional)
- f. Ventilator Set Up (Conventional and Non-Conventional)

Course Requirements: To earn a grade of “C” or higher the student must earn 70% of the total points for the course and meet all of the following course requirements.

- minimum overall average of 70% in the course

Course Grading Scale:

- A- 90% or more of total possible points and successful completion of the lab practicum with average of 70%, and successful performance of course-integrated competencies
- B- 80% or more of total possible points and successful completion of the lab practicum with average of 70%, and successful performance of course-integrated competencies
- C- 70% or more of total possible points and successful completion of the lab practicum with average of 70%, and successful performance of course-integrated competencies
- D- less than 70% of total possible points but not less than 60% of total possible points and/or unsuccessful performance of course-integrated competencies
- F- less than 60% of total possible points and/or unsuccessful performance of course-integrated competencies

Attendance Policy: The college attendance policy, which is available at <http://www.bpcc.edu/catalog/current/academicpolicies.html>, allows that “more restrictive attendance requirements may apply to some specialized classes such as laboratory, activity, and clinical courses because of the nature of those courses.” The attendance policy of the Respiratory Therapy program is described in the Respiratory Therapy Clinical Handbook.

Nondiscrimination Statement

Bossier Parish Community College does not discriminate on the basis of race, color, national origin, gender, age, religion, qualified disability, marital status, veteran's status, or sexual orientation in admission to its programs, services, or activities, in access to them, in treatment of individuals, or in any aspect of its operations. Bossier Parish Community College does not discriminate in its hiring or employment practices.

COORDINATOR FOR SECTION 504 AND ADA

Angie Cao, Student and Disability Services Specialist

Disability Services, F254, 6220 East Texas Street, Bossier City, LA 71111
318-678-6511

acao@bpcc.edu

Hours: 8:00 a.m.-4:30 p.m. Monday - Friday, excluding holidays and weekends.

Equity/Compliance Coordinator
Teri Bashara, Director of Human Resources
Human Resources Office, A-105
6220 East Texas Street
Bossier City, LA 71111
Phone: 318-678-6056
Hours: 8:00 a.m.-4:30 p.m. Monday - Friday, excluding holidays and weekends.

Reviewed by T. Gilmore, April 2019