Course and Prefix Number: RSTH 270  Credit Hours: 3

Course Title: Neonatology/ Pediatric Respiratory Care

Course Prerequisites: successful completion of prior Fall semester courses

Textbook: Neonatal and Pediatric Respiratory Care by Brian Walsh; Elsevier, 4th Ed.

Course Description:
Fetal and neonatal development, cardiopulmonary problems commonly seen in the neonatal and pediatric population, and management of critically ill neonate and pediatric patients.

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
- successful performance of course-integrated competencies

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.

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Equity/Compliance Coordinator
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Reviewed by M. Houston; T. Gilmore/ May 2017