

**Bossier Parish Community College**  
**Master Syllabus**

**Course Prefix and Number:** RSTH 265

**Credit Hours:** 2

**Course Title:** Clinical Applications and Procedures III

**Course Prerequisites:** RSTH 221, RSTH 225, RSTH 235, RSTH 270, RSTH 275

**Course Description:**

A two part clinical practice course designed for continuation of RSTH 270 and RSTH 275. Emphasis on neonatal/pediatric critical care, cardiopulmonary diagnostic procedures, and other pertinent specialty or subspecialty respiratory care areas of practice. Occasionally, rotations also include pulmonary functions testing, long-term acute care (LTAC), and anesthesia/intubation emphasis. Hospital practicum (minimum 144 hours). 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. perform common pediatric and neonatal/infant respiratory care procedures and display minimum competency in the performance of these advanced, intensive care unit-level inpatient respiratory care modalities in implementation and management of mechanical ventilation as directed by a physician's order;
- B. interpret diagnostic data to select and provide appropriate, disease specific respiratory care interventions including cardiopulmonary resuscitation and life support measures in the neonatal/infant and pediatric patient population; and
- C. perform/ participate in patient care at the level of an advanced respiratory care practitioner in the neonatal, pediatric, and adult intensive care environment.

At the end of this course, the student will be able to

- 1. perform cardiopulmonary assessments, develop management plans based on findings, and provide care for non-intubated and intubated infant and children. (A,B)
- 2. interpret lab work and various diagnostic tests and provide a management plan based on findings. (A,B)
- 3. set-up, calibrate, apply, troubleshoot, and monitor non-invasive and invasive monitoring equipment commonly placed by the advanced respiratory therapy practitioner in the neonatal and pediatric intensive care unit. (A,B)
- 4. perform blood gas sampling by various methods utilized in the neonatal and pediatric intensive care unit. (A,B)
- 5. perform and modify (when necessary) various types respiratory therapy on infants and children in the intensive care unit. (A,B)

6. perform the procedure, monitor, and assess neonatal and pediatric patients requiring bronchial hygiene and airway management. (A,B)
7. set-up, apply, troubleshoot, maintain, and monitor mechanical ventilator or specialty ventilator use on infant and pediatric patients. (A,B)
8. describe indications, benefits, contraindications, and hazards of noninvasive ventilation/oxygenation therapies. (A,B)
9. demonstrate or assemble all RT equipment necessary for high risk delivery. (A,B)
10. evaluate the infant for 1 minute and 5 minute Apgar scores, demonstrate procedure for neonatal resuscitation, and demonstrate delivery room management based on neonate's presentation. (A,B)
11. describe the procedure for recognition, diagnosis, and management of infants with various cardiopulmonary conditions routinely found in the neonatal and pediatric intensive care unit. (A,B)
12. state indications, hazards, and mechanism, of action of drugs commonly used in the neonatal and pediatric intensive care unit. (A,B)
13. calculate various parameters routinely utilized for neonatal and pediatric patients requiring mechanical ventilation. (A,B)
14. assist with pulmonary function specialty tests. (C)
15. complete a minimum of 184 hours of supervised clinical practice. (A,B,C)
16. demonstrate competency in the performance of:

**BLOOD GASES**

- a. Capillary 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)

**PROFESSIONAL BEHAVIOR**

- a. Commitment to Learning
- b. Interpersonal Skills
- c. Communication Skills
- d. Effective Use of Time and Resources
- e. Use of Constructive Feedback
- f. Problem Solving
- g. Professionalism
- h. Responsibility
- i. Critical Thinking
- j. Stress Management

**Course Requirements**

- minimum average of 70% on student clinical packet cumulative grade

- completion of a minimum of 144 clinical contact hours
- successful performance of clinical competencies
- good standing with clinical policies and the Patient Bill of Rights
- successful completion of written case study along with case study presentation

### **Course Grading Scale:**

- A. 90% or more of total possible points and a minimum of 70% average on clinical evaluations and successful performance of clinical competencies while completing required clinical hours and maintaining good standing with regard to clinical policies and successful completion of written case study along with case study presentation
- B. 80% or more of total possible points and a minimum of 70% average on clinical evaluations and successful performance of clinical competencies while completing required clinical hours and maintaining good standing with regard to clinical policies and successful completion of written case study along with case study presentation
- C. 70% or more of total possible points and a minimum of 70% average on clinical evaluations and successful performance of clinical competencies while completing required clinical hours and maintaining good standing with regard to clinical policies and successful completion of written case study along with case study presentation
- D. 60% or more of total possible points or less than a 70% average on clinical evaluations or unsuccessful performance of clinical competencies or failure to complete required clinical hours or failure to maintain good standing with regard to clinical policies and unsuccessful completion of written case study along with case study presentation
- F. less than 60% of total possible points or less than a 70% average on clinical evaluations or unsuccessful performance of clinical competencies or failure to complete required clinical hours or failure to maintain good standing with regard to clinical policies and unsuccessful completion of written case study along with case study presentation

**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

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[acao@bpcc.edu](mailto: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

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Reviewed by Jennifer Anderson, March 2019