

**SEWARD COUNTY COMMUNITY COLLEGE
COURSE SYLLABUS**

I. TITLE OF COURSE: RT2315- Respiratory Therapy Clinical Practicum III

**II. COURSE DESCRIPTION: 5 credit hours
3 credit hours of lecture and 2 credit hours of lab per week.**

This three-hour lecture and two-hour clinical course will provide information on the respiratory therapist's role in management of neonatal and pediatric patients with respiratory diseases. This course will include in-depth case studies and utilize simulations with simulators to enhance this content/experience. Clinical experiences in this course will provide the students with opportunities to prepare them for their summer critical care rotations/practicum.

For each unit of credit, a minimum of three hours per week with one of the hours for class and two hours for studying/preparation outside of class is expected.

Pre-requisite: Admission to the Respiratory Therapy Program.

III. PROGRAM AND/OR DEPARTMENT MISSION STATEMENT:

The Respiratory Therapy Program of Seward County Community College provides an educational forum responsive to the needs of the health care community with emphasis to maximize professional potential and foster the development of competent and compassionate respiratory care practitioners.

IV. TEXTBOOK AND MATERIALS:

1. Cairo, J. M., (2020). Pilbeam's mechanical ventilation physiological and clinical applications (7th ed.). St. Louis: Elsevier.
2. Kacmarek, R. M., Stoller, J. K., and Heuer, A. J. (2021). Egan's fundamentals of respiratory care (12th ed.). St. Louis: Elsevier.
3. Walsh, B. (2019). Neonatal and pediatric respiratory care (5th ed.). St. Louis: Elsevier.
4. Sills. Case studies & clinical simulations for respiratory care (1st ed.). St. Louis: Elsevier.

V. SCCC OUTCOMES

Students who successfully complete this course will demonstrate the ability to do the following SCCC Outcomes.

- 1: Read with comprehension, be critical of what they read, and apply knowledge gained to real life
- 2: Communicate ideas clearly and proficiently in writing, appropriately adjusting content and arrangement for varying audiences, purposes, and situations.
- 3: Communicate their ideas clearly and proficiently in speaking, appropriately adjusting content and arrangement for varying audiences, purposes, and situations.
- 4: Demonstrate mathematical skills using a variety of techniques and technologies.
- 5: Demonstrate the ability to think critically by gathering facts, generating insights, analyzing data, and evaluating information
- 6: Exhibit skills in information and technological literacy
- 7: Understand each other, moving beyond simple acceptance to embracing and celebrating the rich dimensions of diversity by working as a team to learn, engaging with community, exhibiting cultural awareness, and creating equity.
- 9: Exhibit workplace skills that include respect for others, teamwork competence, attendance/punctuality, decision making, conflict resolution, truthfulness/honesty, positive attitude, judgment, and responsibility

VI. COURSE OUTCOMES:

1. Describe how to perform and monitor critical neonatal and pediatric patients.
2. Identify by patient assessment and recommend respiratory care to treat various congenital anomalies and acquired illnesses and diseases in newborns, infants, and pediatric patients.
3. Recall and apply different methods of noninvasive and invasive mechanical ventilation strategies for respiratory illness and disease for the neonatal and pediatric patient.
4. Demonstrate clinical competencies as outlined in the breakdown of clinical competency list by semester and by successfully completing over 220 hours of critical respiratory care in the clinical setting.
5. Describe and apply assessment, diagnosis, and treatment of different respiratory illnesses and diseases for all populations.
5. Identify the normal and critical cardiac rhythms and arrhythmias and anticipate how to treat with intervention strategies and medications.
6. Demonstrate clinical competency by successfully completing the following performance evaluations:
 - a. Hemodynamic Monitoring
 - b. High Frequency Oscillatory Ventilation
 - c. Neonatal Surfactant Replacement Therapy
 - d. Neonatal Transcutaneous Monitoring
 - e. Neonatal /Pediatric Electrocardiogram
 - f. Oxygen Concentrator
 - g. Polysomnography
 - h. Ventilator Waveform Analysis

VII. COURSE OUTLINE:

1. Noninvasive Monitoring in Neonatal and Pediatric Care
2. Mechanical Ventilation, CPAP, HFOV review
3. Pulmonary Air Leak Syndromes
4. Critical Respiratory Care of Pediatric and Neonatal Illnesses
5. Case Studies
6. ECGs
7. ACLS review
8. Mega-code final

VIII. INSTRUCTIONAL METHODS:

1. Textbooks and Journals
2. Lecture and Discussion
3. Clinical Assignments
4. Quizzes
5. Audiovisuals
6. Canvas
7. Kahoot
8. Online publisher tools

IX. INSTRUCTIONAL AND RESOURCE MATERIALS:

1. Textbooks and Journals
2. Audiovisuals
3. Laboratory Equipment
4. Canvas
5. DataArc

X. METHODS OF ASSESSMENT:

SCCC Outcome # 1, 4, 5 will be assessed and measured by unit quizzes, respiratory care plans, and module exams.

SCCC Outcome # 2, 3, 6 & 7 will be assessed and measured by satisfactory performance in case study activities and simulations.

SCCC Outcome #5, 6, 7 & 9 will be assessed and measured by satisfactory scores on daily and affective evaluations in the clinical setting.

XI. ADA STATEMENT:

Under the Americans with Disabilities Act, Seward County Community College will make reasonable accommodations for students with documented disabilities. If you need support or assistance because of a disability, you may be eligible for academic accommodations. Students should identify themselves to the Dean of Students at 620-417-1106 or go to the Student Success Center in the Hobbie Academic building, room A149.

Syllabus Reviewed: 11/4/2022