

COURSE SYLLABUS

LAST REVIEW	Spring 2021
COURSE TITLE	Clinic Practice II
COURSE NUMBER	RSCR 0249
DIVISION	Health Professions
DEPARTMENT	Respiratory Therapy
CIP CODE	51.0908
CREDIT HOURS	4
CONTACT HOURS/WEEK	Clinical: 12
PREREQUISITES	Program sequence
COURSE PLACEMENT	This course is part of a selective admission program. Students must be admitted to the Respiratory Therapy program to enroll in this course.

COURSE DESCRIPTION

In this clinically focused class, students apply techniques for performing positive pressure breathing, pulmonary hygiene, airway maintenance, and collection of clinical data. Students initiate respiratory care in emergent situations, participate in critical care monitoring, cardiopulmonary assessment, airway management, and positive airway pressure therapy. Students implement respiratory care plans and make recommendations for care.

PROGRAM ALIGNMENT

This course is part of a program aligned through the Kansas Board of Regents and Technical Education Authority. For more information, please visit:

https://kansasregents.org/workforce_development/program-alignment

PROGRAM LEARNING OUTCOMES

1. Formulate the knowledge and critical reasoning skills necessary to pass the National Board for Respiratory Care Therapist Multiple Choice Exam.
2. Execute the variety of assessment and intervention skills necessary to provide respiratory care in the clinical setting at the entry Registered Respiratory Therapist level.
3. Integrate professional behaviors necessary at the entry Registered Respiratory Therapist level.

TEXTBOOKS

<http://kckccbookstore.com/>

METHODS OF INSTRUCTION

A variety of instructional methods may be used depending on content area. These include but are not limited to: lecture, multimedia, cooperative/collaborative learning, labs and demonstrations, projects and presentations, speeches, debates, panels, conferencing, performances, and learning experiences outside the classroom.

Methodology will be selected to best meet student needs.

COURSE OUTLINE

- I. Developing a respiratory care plan
 - A. Drainage and access devices e.g. chest tube, artificial airway
 - B. Arterial blood gas and hemoximetry analysis results
 - C. Imaging study results, e.g.,CXR, lateral neck radiographs,, CT, MRI
 - D. Chest assessment, e.g., diagnostic chest percussion, diaphragmatic excursion
 - E. Lung test results, e.g., PEFr, screening spirometry.
 - F. EKG results
 - G. Clinical laboratory results, e.g., CBC, electrolytes, culture and sensitivity, gram stain

- II. Therapeutic interventions
 - A. Proper positioning of a patient
 - B. Artificial airways, e.g., basic airways, advanced airways, difficult airways, humidification, tracheostomy care, cuff management
 - C. VAP protocols
 - D. Airway clearance and lung expansion techniques, e.g., PDC, therapeutic percussion, vibration, vibratory PEP, therapy vest, suctioning, hyperinflation, IPPB, assisted cough, lung recruitment maneuvers
 - E. Administration of medication and specialty gases, e.g., MDI, SVN, endotracheal instillation, changes to drug, dosage, or concentration
 - F. Procedures assisting a physician, e.g., intubation, tracheostomy

- III. Equipment
 - A. Nebulizers
 - B. Intubation equipment
 - C. Artificial airways
 - D. Suctioning equipment
 - E. Blood gas analyzer equipment, e.g., hemoximetry, point-of-care, blood gas
 - F. Spirometers, e.g., respirometers, screening spirometers

- IV. Quality control procedures
 - A. Blood gas analyzers and hemoximeters
 - B. Noninvasive monitors
 - C. Spirometers
 - D. Airway clearance devices

- V. Patient and family education
 - A. Safety and infection control
 - B. Homecare equipment
 - C. Pulmonary rehabilitation
 - D. Disease management, e.g., asthma, COPD, sleep disorders

COURSE LEARNING OUTCOMES AND COMPETENCIES

Upon successful completion of this course, the student will:

- A. Collect, evaluate, and recommend clinical data to develop a respiratory care plan.
 - 1. Collect, evaluate, and recommend drainage and access devices e.g., chest tube, artificial airway.
 - 2. Collect, evaluate, and recommend arterial blood gas and hemoximetry analysis results.
 - 3. Collect, evaluate, and recommend imaging study results, e.g., CXR, lateral neck radiographs, CT, MRI.
 - 4. Collect, evaluate, and recommend chest assessment, e.g., diagnostic chest percussion, diaphragmatic excursion.
 - 5. Collect, evaluate, and recommend lung test results, e.g., PEFR, screening spirometry.
 - 6. Collect, evaluate, and recommend EKG results.
 - 7. Collect, evaluate and recommend clinical laboratory results, e.g., CBC, electrolytes, culture and sensitivity, gram stain.
- B. Initiate and modify therapeutic interventions.
 - 8. Initiate and modify proper positioning of a patient.
 - 9. Initiate and modify artificial airways, e.g., basic airways, advanced airways, difficult airways, humidification, tracheostomy care, cuff management.
 - 10. Initiate and modify VAP protocols.
 - 11. Initiate and modify airway clearance and lung expansion techniques, e.g., PD&C, therapeutic percussion, vibration, vibratory PEP, therapy vest, suctioning, hyperinflation, IPPB, assisted cough, lung recruitment maneuvers.
 - 12. Initiate and modify administration of medication and specialty gases, e.g., MDI, SVN, endotracheal instillation, changes to drug, dosage, or concentration.
 - 13. Initiate and modify procedures assisting a physician, e.g., intubation, tracheostomy.
- C. Assembly and troubleshoot equipment.
 - 14. Assemble and troubleshoot nebulizers.
 - 15. Assemble and troubleshoot intubation equipment.
 - 16. Assemble and troubleshoot artificial airways.
 - 17. Assemble and troubleshoot suctioning equipment.

18. Assemble and troubleshoot blood gas analyzer equipment, e.g., hemoximetry, point-of-care, blood gas.
 19. Assemble and troubleshoot spirometers, e.g., respirometers, screening spirometers.
- D. Perform quality control procedures.
20. Perform quality control procedures on blood gas analyzers and hemoximeters.
 21. Perform quality control procedures on noninvasive monitors.
 22. Perform quality control procedures on spirometers.
 23. Perform quality control on airway clearance devices.
- E. Initiate and conduct patient and family education.
24. Initiate and conduct patient and family education on safety and infection control.
 25. Initiate and conduct patient and family education on homecare equipment.
 26. Initiate and conduct patient and family education for pulmonary rehabilitation.
 27. Initiate and conduct patient and family education for disease management, e.g., asthma, COPD, sleep disorders.

ASSESSMENT OF COURSE LEARNING OUTCOMES AND COMPETENCIES

Student progress is evaluated through both formative and summative assessment methods. Specific details may be found in the instructor's course information document.

COLLEGE POLICIES AND PROCEDURES

Student Handbook

<https://www.kckcc.edu/files/docs/student-resources/student-handbook-and-code-of-conduct.pdf>

College Catalog

<https://www.kckcc.edu/academics/catalog/index.html>

College Policies and Statements

<https://www.kckcc.edu/about/policies-statements/index.html>

Accessibility and Accommodations

<https://www.kckcc.edu/academics/resources/student-accessibility-support-services/index.html>