DATE OF LAST REVIEW: 02/2013
CIP CODE: 51.0908
SEMESTER: Departmental Syllabus
COURSE NAME: Clinic Practice IV
COURSE NUMBER: RSCR0284
CREDIT HOURS: 4
INSTRUCTOR: Departmental Syllabus
OFFICE LOCATION: Departmental Syllabus
OFFICE HOURS: Departmental Syllabus
TELEPHONE: Departmental Syllabus
EMAIL: Departmental Syllabus

KCKCC-issued emails accounts are the official means for electronically communicating with our students.

PREREQUISITE(S): Admission to the Respiratory Therapy program and program sequence

REQUIRED TEXT AND MATERIALS:

Please check with the KCKCC bookstore, http://www.kckccbookstore.com/, for the required texts for your particular class.

COURSE DESCRIPTION:
In this therapeutic intervention course the emphasis is advanced cardiopulmonary procedures in the critical care setting. Students learn management of life support systems, including mechanical ventilation, advanced cardiac life support, and difficult airway management. Students establish and develop their clinical competencies on rotations with physicians and therapists. Clinical areas included are: surgery, post anesthesia care unit, intensive care, emergency room, and long-term ventilator weaning unit.

METHOD 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, and panels, conferencing, learning experiences, and performances outside the classroom. Methodology will be selected to best meet student needs.

COURSE REQUIREMENTS:
Each student is required to successfully pass examinations. Skill check offs for the units covered must be made prior to the examination. The written examination may contain multiple choice, true-false, matching, fill in the blank and/or short answer questions. They will be based mainly on lecture and text
content. Practical exams will be based on lecture materials. Related policies are located in the Respiratory Therapist program handbook.

COURSE OUTLINE:

I. Patient Assessment
   A. Medical history
   B. Physical examination
   C. Interpretation of clinical lab data
   D. Respiratory care plans

II. Hemodynamic Monitoring
   A. Central lines
      1. CVP lines
      2. Pulmonary artery catheters
      3. Care of line
      4. Interpret hemodynamic measurement:
         - PAP            SVR      Preload
         - CVP            PVR      Afterload
         - PAWP           LAP      Sv02
         - CO             LVEDP    Pvo2
         - RAP            RVEDP
         - Ca02            Cv02
   B. Arterial lines
      1. Care of lines
      2. Monitoring of graphics
      3. Blood sampling
   C. Intra-aortic balloon augmentation

III. Advanced Mechanical Ventilation Methodologies
   A. Ventilator management
   B. Ventilator graphics
   C. Lung protective strategies
   D. ARDSNet protocol

IV. Advanced Cardiovascular Life Support
   A. BLS algorithm
   B. Pulseless arrest algorithm
   C. Bradycardia algorithm
   D. Tachycardia with pulses algorithm
   E. Electrical Cardioversion algorithm
   F. Acute pulmonary edema, hypotension, shock algorithm
   G. Hypothermia algorithm
   H. Suspected stroke algorithm
   I. Acute coronary syndromes algorithm
   J. ACLS drug and electrical therapy
   K. Interpret EKGs

V. Advanced Airway Devices
   A. ETT
   B. LMA
   C. Tracheostomy tubes
   D. Tracheostomy buttons
   E. Speaking valves

VI. Difficult airway algorithm
EXPECTED LEARNER OUTCOMES:
A. The student will be able to select equipment for the desired hyperinflation, positive pressure, or airway care effect.
B. The student will be able to examine patient response to treatment.
C. The student will be able to monitor changing patient conditions.
D. The student will be able to demonstrate hyperinflation positive pressure, and airway care techniques.
E. The student will be able to explain rehabilitation and homecare procedures to patients.

COURSE COMPETENCIES:
Upon successful completion of this course:

Student will do Patient assessment:
1. Assess the patient’s medical history.
2. Assess the patient by physical examination
3. Interpret the patient’s clinical lab data
4. Assess the patient’s response to the respiratory care plan
5. Modify and make recommendations to the care plan based on assessment of the patient.

Student will monitor Hemodynamic data.
6. Care for hemodynamic monitoring lines.
7. Access arterial lines for arterial blood sampling.
8. Interpret hemodynamic measurements.

Student will operate Advance mechanical ventilator.
10. Manage mechanical ventilation on patients.
11. Measure ventilator graphics
12. Interpret ventilator graphics
13. Apply lung protective strategies
14. Apply ARDS Net protocol

Student will apply Advanced cardiovascular life support.
15. Apply BLS algorithm
16. Apply pulseless arrest algorithm
17. Apply bradycardia algorithm
18. Apply tachycardia with pulses algorithm
19. Apply electrical cardioversion algorithm
20. Apply acute pulmonary edema, hypotension, shock algorithm
21. Apply hypothermia algorithm
22. Apply suspected stroke algorithm
23. Apply acute coronary syndromes algorithm
24. Apply ACLS drun and electrical therapy
25. Interpret EKGs

Student will apply Advanced airway devices.
26. Apply and manage ETT
27. Apply and manage LMA
28. Apply and manage combitube
29. Apply and manage tracheostomy buttons
30. Apply and manage speaking valves
31. Apply difficult airway algorithm
ASSESSMENT OF LEARNER OUTCOMES:
Student progress is evaluated by means of exams, written assignments, and class participation.

SPECIAL NOTE:
This syllabus is subject to change at the discretion of the instructor. Material included is intended to provide an outline of the course and rules that the instructor will adhere to in evaluating the student’s progress. However, this syllabus is not intended to be a legal contract. Questions regarding the syllabus are welcome any time.

Kansas City Kansas Community College is committed to an appreciation of diversity with respect for the differences among the diverse groups comprising our students, faculty, and staff that is free of bigotry and discrimination. Kansas City Kansas Community College is committed to providing a multicultural education and environment that reflects and respects diversity and that seeks to increase understanding.

Kansas City Kansas Community College offers equal educational opportunity to all students as well as serving as an equal opportunity employer for all personnel. Various laws, including Title IX of the Educational Amendments of 1972, require the college’s policy on non-discrimination be administered without regard to race, color, age, sex, religion, national origin, physical handicap, or veteran status and that such policy be made known.

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