SYLLABUS

DATE OF LAST REVIEW: 02/2013

CIP CODE: 51.0812

SEMESTER: Departmental Syllabus

COURSE TITLE: Clinic Practice I

COURSE NUMBER: RSCR0129

CREDIT HOURS: 3

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, or permission from the instructor.

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

Required Materials
Stethoscope
Watch that keeps seconds, minutes, hours
Four functions pocket calculator
Scrubs
White or mostly white shoes

COURSE DESCRIPTION:
Students make clinical rounds with Respiratory Care Practitioners (RCP) and physicians. Activities are directed so that students gain familiarity with initiating respiratory therapy in a variety of adult-child acute care and rehabilitation settings. Emphasis is placed on professional clinical practice guidelines for basic therapies. Students will practice safe operation of equipment, and appropriate technology selection for desired therapeutic effects.

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 OUTLINE:**

I. Standards of Care  
   A. AARC Clinical Practice Guidelines  
   B. Protocols  
   C. Algorithms  

II. Applications of oxygen therapy  
    A. Operation of oxygen supply systems  
    B. Oxygen administration  
    C. Measurement of pulse oximetry  
    D. Measurement of oxygen concentration  
    E. Titrating oxygen levels  
    F. Assembly of aerosol enclosures  
    G. Dispense liquid oxygen systems  
    H. Operate oxygen concentrators  
    I. Calculate flow rates  
    J. Calculate air/oxygen dilutions  

III. Applications of humidity and aerosol  
    A. Control heat output  
    B. Control flow  
    C. Determine delivery system  
    D. Select adjuncts  

IV. Perform patient assessment  
    A. Obtaining vital signs  
    B. Auscultating breath sounds  
    C. Performing physical assessments  
    D. Measuring incentive spirometry volume and flow  

V. Apply infection control practices  
    A. Handwashing to prevent nosocomial infections  
    B. Isolation procedures  
    C. Bacteriological surveillance  
    D. Equipment processing  

VI. Perform electrocardiograms  
    A. Operate 12 lead ECG machine  
    B. Select appropriate lead placement  
    C. Run a rhythm strip  
    D. Determine heart rate  
    E. Identify QRS complex  
    F. Identify positive/negative voltage  
    G. Adjust amplitude  
    H. Filter artifact  

VII. Perform computer functions  
    A. Operate keyboard  
    B. Operate monitor  
    C. Operate printer  
    D. Data entry
VIII. Perform cardiopulmonary resuscitation
   A. Determine unresponsiveness
   B. Call for support team
   C. Position patient
   D. Open airway
   E. Determine apnea
   F. Provide manual ventilation
   G. Determine pulselessness
   H. Perform compressions

IX. Effective clinical communications
   A. Telephone skills
   B. Voice mail operation
   C. Message retrieval
   D. Stat pages
   E. Pager or mobile phone operation
   F. Charting to the medical record
   G. Filing patient data
   H. Retrieving patient files
   I. Maintaining patient confidentiality
   J. Sending facsimiles
   K. Copying and collating patient data

X. Perform clinical calculations
   A. Flow rates
   B. Lung volumes and capacities
   C. Metrics conversions
   D. Cylinder time remaining
   E. Oxygen mixtures and medical gas

XI. Administer respiratory medications
   A. Use aerosol nebulizers
   B. Administer mucokinetics, mucolytics, and bronchodilators

EXPECTED LEARNER OUTCOMES:
A. Student will be able to follow standards of care.
B. Student will be able to apply oxygen therapy.
C. Student will be able to apply humidity and aerosol therapy.
D. Student will be able to perform patient assessment.
E. Student will be able to apply infection control practices.
F. Student will be able to perform electrocardiograms.
G. Student will be able to perform computer functions.
H. Student will be able to perform cardiopulmonary resuscitation.
I. Student will be able to effectively communicate clinically.
J. Student will be able to perform clinical calculations.
K. Student will be able to administer respiratory medications.

COURSE COMPETENCIES:

Student will be able to follow standards of care.
1. Student will be able to follow standards of care.
2. Student will reference standards of care.
3. Student will demonstrate application of care standards.

   **Student will be able to apply oxygen therapy.**

4. Student will be able to apply oxygen therapy.
5. Student will select appropriate medical gas and oxygen equipment for patients.
6. Student will correctly apply medical gas and oxygen equipment to patients.
7. Students will adjust medical gas and oxygen equipment to patient responses.

   **Student will be able to apply humidity and aerosol therapy.**

8. Student will be able to apply humidity and aerosol therapy.
9. Student will select appropriate humidity and aerosol equipment for patients.
10. Student will correctly apply humidity and aerosol equipment to patients.
11. Student will adjust medical humidity and aerosol equipment to patient responses.

   **Student will be able to perform patient assessment.**

12. Student will be able to perform patient assessment.
13. Student will assess vital signs.
14. Student will assess lung sounds.
15. Student will assess heart sounds.
16. Student will palpate the chest.
17. Student will percuss the chest.
18. Student will assess SpO2.
19. Student will assess PEFR.

   **Student will be able to apply infection control practices.**

20. Student will be able to apply infection control practices.
21. Student will apply Universal precautions.
22. Student will apply Body Substance Isolation.
23. Student will apply Respiratory Isolation.
24. Student will apply reverse isolation.

   **Student will be able to perform electrocardiograms.**

25. Student will be able to perform electrocardiograms.
26. Student will operate an EKG machine to obtain a patient EKGs.
27. Student will apply chest leads to patients.
28. Student will apply limb leads to patients.

   **Student will be able to perform computer functions.**

29. Student will be able to perform computer functions.
30. Student will access patient clinical records via computer.
31. Student will enter patient data via computer.
32. Student will print patient reports via computer.

   **Student will be able to perform cardiopulmonary resuscitation.**

33. Student will be able to perform cardiopulmonary resuscitation.
34. Student will perform American Heart Association Basic Life Support for Healthcare Providers.
35. Student will apply a resuscitation bag, mask, valve device to patients to provide positive pressure ventilation.
36. Student will apply oropharyngeal airways to patients.
37. Student will apply nasopharyngeal airways to patients.
Student will be able to effectively communicate clinically.
38. Student will be able to effectively communicate clinically.
39. Student will operate clinic phone to send and receive messages.
40. Student will route clinical message and patient data to appropriate providers.
41. Student will operate clinic mobile phone and pagers.
42. Student will apply HIPPA patient confidentiality.
43. Student will use approved medical terminology to chart patient data.

Student will be able to perform clinical calculations.
44. Student will be able to perform clinical calculations.
45. Student will calculate flow rates.
46. Student will calculate lung volumes and capacities.
47. Student will calculate metric conversions.
48. Student will calculate time remaining in a medical gas cylinder.
49. Student will calculate oxygen and medical gas mixtures.
50. Student will use a nomogram to determine predicted values for patient lung functions.

Student will be able to administer respiratory medications.
51. Student will be able to administer respiratory medications.
52. Student will select appropriate medication delivery device for patients.
53. Student correctly applies medication delivery devices to patients.
54. Student will dispense prescribed medications and dosages.
55. Student will adjust medication delivery to patients based on patient responses.

ASSESSMENT OF LEARNER OUTCOMES:
Student progress is evaluated by means of exams, written assignments, and class participation.

SPECIAL NOTES:
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.

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