SYLLABUS

DATE OF LAST REVIEW: 04/2014

CIP CODE: 51.0904

SEMESTER: Departmental Syllabus

COURSE TITLE: Paramedic Hospital Practice

COURSE NUMBER: EMTC0245

CREDIT HOURS: 5

INSTRUCTOR: Departmental Syllabus

OFFICE LOCATION: Departmental Syllabus

OFFICE HOURS: Departmental Syllabus

TELEPHONE: Departmental Syllabus

EMAIL: Departmental Syllabus

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

PREREQUISITES: EMTC0228

REQUIRED TEXT AND MATERIALS: Please check with the KCKCC bookstore, [http://www.kckccbookstore.com](http://www.kckccbookstore.com) for the required text for your particular class.

COURSE DESCRIPTION:
This course provides the student an opportunity to apply didactic content to the clinical environment. Activities are directed so that students gain familiarity with initiating and continuing care for injured and ill patients in a variety of adult-child acute care settings. Emphasis is placed on professional clinical practice guidelines for basic paramedic procedures. Students will practice safe operation of equipment, and appropriate technology selection for desired therapeutic effects. Clinical areas to be included are Dialysis, Labor & Delivery, Respiratory Therapy, Pediatrics, Burn Unit, Behavioral Health, Cath Lab, and First Response Pumper. Students are required to complete Community Service as part of this clinical practicum also.

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

COURSE OUTLINE:

I. Obtain a pertinent medical history
   A. Components of a pertinent medical history.
   B. History of present illness or injury
   C. Pertinence of past medical history to present situation
II. Perform a complete physical assessment
   A. Review body systems
   B. Components of vital signs
      i. Blood pressure (auscultation/palpation)
      ii. Ventilation (Rate, Rhythm, Pattern, Quality)
      iii. Heart rate (Apical, Carotid, Peripheral, Ausculatory, and Palpation characteristics)
      iv. Level of consciousness (AVPU, Trauma Score, Glasgow Coma Scale)
      v. Ocular exam (Pupil response, extra-ocular movements)
      vi. Skin assessments (Temperature, color, turgor, moisture)
   C. Importance of each vital sign

III. Implement appropriate care for patients
   A. Drawing subcutaneous medication.
   B. Administer a subcutaneous medication
   C. Proper technique for an intramuscular injection
   D. Complications of giving an intramuscular injection
   E. Cleansing and dressing wounds
   F. Obtain a venous blood sample
   G. Nasogastric tube insertion
   H. Gastric lavage
   I. Orthopedic surgery

IV. Demonstrate the ability to correctly interpret EKG’s
   A. Electrode application
   B. Correlate EKG findings with patient’s status
   C. Proper treatment for an arrhythmia
   D. Procedure for using a transcutaneous pacer
   E. Distinguish between dysrhythmia and external electrical interference

V. Demonstrate the ability to institute appropriate airway management techniques
   A. Airway suctioning
   B. Non-invasive and invasive airway devices
   C. Oxygen administration
   D. Evaluate respiratory pattern and quality
   E. Ventilation devices
   F. Respiratory failure
   G. Chest tubes

VI. Demonstrate knowledge of medications
   A. Drug reactions
   B. Patients at risk for drug toxicities
   C. Action of drugs
   D. Side effects of common respiratory medications

VII. Demonstrate the ability to recognize cardiopulmonary arrest and to institute appropriate treatment modalities
   A. Demonstrate CPR
   B. Importance of “clearing the patient” before applying electrical therapy
   C. Forms of electrical therapy available for arrest and peri-arrest situations
   D. ACLS guidelines.

VIII. Demonstrate a familiarity with the care and treatment of a dialysis patient.
   A. Hemodialysis and peritoneal dialysis
   B. Vascular access
IX. Demonstrate familiarity with the care and treatment of an emergent patient.
   A. Patient triage
   B. Proper moving and positioning of patients
   C. Immobilization with appropriate techniques

X. Demonstrate familiarity with the care and treatment of a patient post-surgery
   A. Orthopedic surgical procedures
   B. General Care

XI. Demonstrate familiarity with the care and treatment of a patient in Labor and Delivery
   A. Stages of delivery
   B. Fetal heart tones
   C. Timing of contractions
   D. Complications of labor

XII. Demonstrate familiarity with the care and treatment of a pediatric patient
    A. Clinical evaluation of children
    B. Pediatric protocols

XIII. Demonstrate familiarity with the care and treatment of a burn patient
     A. Sterile precautions
     B. Estimate body surface area (BSA)

XV. Demonstrate familiarity with the care and treatment of a patient in the Behavioral/Psychiatric Unit
    A. Observe staff interactions
    B. Behavioral health issues
    C. Family interactions
    D. Patient restraints

XVI. Demonstrate familiarity with the care and treatment of a patient undergoing cardiac catheterization
    A. Cardiac catheterization and interventional cardiology procedures
    B. Clinical effects of arrhythmias

EXPECTED LEARNER OUTCOMES:

A. The student will be able to demonstrate the ability to obtain a pertinent medical history on a variety of patients.
B. The student will be able to demonstrate the ability to perform a complete physical assessment on a patient.
C. The student will be able to, under the direct supervision of a clinical preceptor and/or physician, implement appropriate care for patients encountered in the clinical setting.
D. The student will be able to demonstrate the ability to correctly interpret EKG’s obtained from patients in the clinical setting.
E. The student will be able to demonstrate the ability to institute appropriate airway management techniques including oxygen therapy and endotracheal intubation.
F. The student will be able to demonstrate knowledge of medications used in the treatment of patients in emergency settings to include the medication, its mechanism of action, indications, contraindications, side effects, and overdose treatment, if any.
G. The student will be able to demonstrate the ability to recognize cardiopulmonary arrest and to institute appropriate treatment modalities.
H. The student will be able to demonstrate the ability to provide care for the dialysis, burn, psychiatric, pediatric and labor and delivery patients.
COURSE COMPETENCIES:

The student will be able to demonstrate the ability to obtain a pertinent medical history on a variety of patients.

1. The student will list the components of a pertinent medical history.
2. The student will determine history of present illness or injury.
3. The student will relate pertinence of past medical history to present situation.
4. The student will obtain patient identification and vital statistics (name, sex, date of birth, age, nationality, race, marital status and occupation).
5. The student will interview the caregiver/informant and his/her relationship to the patient.
6. The student will obtain the patient’s chief complaint which includes symptoms causing major discomfort.
7. The student will observe triage of patients into priorities of treatment.

The student will be able to demonstrate the ability to perform a complete physical assessment on a patient.

8. The student will review body systems to be included in a complete patient assessment.
9. The student will identify what comprise the vital signs.
10. The student will determine characteristics important to each vital sign.
11. The student will listen and evaluate heart and breath sounds.

The student will be able to, under the direct supervision of a clinical preceptor and/or physician, implement appropriate care for patients encountered in the clinical setting.

12. The student will correctly draw up a given amount of subcutaneous medication.
13. The student will demonstrate the proper technique to administer a subcutaneous medication.
14. The student will demonstrate the proper technique for an intramuscular injection.
15. The student will list possible complications of giving an intramuscular injection.
16. The student will assist in the cleansing and dressing of wounds.
17. The student will correctly obtain a venous blood sample.
18. The student will set up, start, maintain and observe the effects of fluid therapy by establishing an intravenous infusion administration and calculating the infusion rate under supervision and list the possible complications of fluid therapy.
19. The student will interpret laboratory results and relate them to the patient’s condition and expected treatments.
20. The student will perform nasogastric insertion, under supervision and understand the indications for treatment.
21. The student will, under supervision, perform gastric lavage.
22. The student will observe and assist staff in the proper moving and positioning of patients.
23. The student will recognize orthopedic injuries, name the associated complications and immobilize the patient with appropriate techniques.
24. The student will be familiar with orthopedic surgical procedures and consideration for location of nerves, arteries and veins in relation to various bones.

The student will be able to demonstrate the ability to correctly interpret EKG’s obtained from patients in the clinical setting.

25. The student will perform electrode application for continuous monitoring.
26. The student will correlate EKG findings with the patient’s clinical status.
27. The student will provide proper treatment given an arrhythmia.
28. The student will demonstrate the procedure for using a transcutaneous pacer.
29. The student will identify potentially lethal dysrhythmias and distinguish between these and simple, external electrical interference (artifact).
30. The student will identify the effects of an AMI on the ECG and laboratory tests.
The student will be able to demonstrate the ability to institute appropriate airway management techniques including oxygen therapy and endotracheal intubation

31. The student will recognize the need for and perform airway suctioning.
32. The student will recognize the need for endotracheal intubation.
33. The student will apply oxygen and understand the indications for percentage and flow rates administered.
34. The student will evaluate the patient for respiratory pattern and quality, including chest wall movement, skin color and temperature, and pulse rate, rhythm, and quality and then relate these findings to the expected course of treatment.
35. The student will recognize the need for and administer oxygen therapy using the appropriate flow rate, oxygen deliver system and airway adjunct devices including oropharyngeal, nasopharyngeal, esophageal and endotracheal devises.
36. The student will state the principle and management of chest tubes.
37. The student will observe constant mechanical ventilation, its need and complications of this therapy.
38. The student will state the dangers of aspiration pneumonia, its prevention and treatment.
39. The student will become familiar with ventilation devices.
40. The student will observe staff interaction with patients in respiratory distress.
41. The student will observe the various degrees of cyanosis and the clinical management.
42. The student will observe blood gas analysis of laboratory results and correlate these with symptoms and treatment.
43. The student will recognize the symptoms of acute respiratory failure/distress and state the proper management.
44. The student will recognize the symptoms of chronic pulmonary disease and state the proper management of the disease.

The student will be able to demonstrate knowledge of medications used in the treatment of patients in clinical settings to include the medication, it’s mechanism of action, indications, contraindications, side effects, and overdose treatment, if any.

45. The student will identify those patients at risk for drug toxicities.
46. The student will set up and administer parenteral medications under supervision.
47. The student will list the rationale for administration of a medication by the parenteral route.
48. The student will recite for each pharmacological agent administered, a description of said agent to include: class, pharmacological effects, uses, duration of action, preparations, dosage and administration route, side effects, contraindications, precautions, antidote and pediatric dosage, as applicable.

The student will be able to demonstrate the ability to recognize cardiopulmonary arrest and to institute appropriate treatment modalities.

49. The student will demonstrate proper one-person-CPR.
50. The student will recognize the importance of “clearing the patient” before applying electrical therapy to the patient.
51. The student will differentiate among the various forms of electrical therapy available for arrest and peri-arrest situations.
52. The student will demonstrate knowledge of ACLS guidelines in given situations.

The student will be able to demonstrate the ability to recognize disease processes that have caused patients to need dialysis.

53. The student will gain a basic familiarity with the process of hemodialysis and peritoneal dialysis.
54. The student will gain a working knowledge of the different types of vascular access and the most common complications.
The student will be familiar with the labor and delivery process.
55. The student will observe the signs and symptoms of the different stages of labor.
56. The student will observe fetal monitoring and its importance during the first stage of labor.
57. The student will locate fetal heart sounds and accurately time contractions.
58. The student will observe the technique of assisting the mother in a normal delivery/
59. The student will observe, and when possible, assist with suctioning and maintaining the airway of the newborn.
60. The student will observe, and when possible, assist with clamping and cutting the cord of the newborn.
61. The student will observe the difficulties encountered in an abnormal delivery.
62. The student will observe and participate in the staff interaction with patients in labor.
63. The student will observe and assist with the treatment of post-partum hemorrhage.
64. The student will perform an external massage of the fundus to aid in the control of post-partum hemorrhage.
65. The student will observe and assess the newborn with regard to vital functions, motor activities, along with the APGAR method of evaluating newborns.
66. The student will observe methods of conserving body warmth in the newborn.

The student will be familiar with the care and treatment of the pediatric patient.
67. The student will observe the clinical evaluation of children
68. The student will accurately chart clinical observations

The student will be familiar with care and treatment of burn patients.
69. The student will take sterile precautions as mandated by burn unit personnel to prevent the spread of infection to patients.
70. The student will observe staff interaction with patients in the burn unit.
71. The student will observe and discuss with staff special procedures in caring for burn patients.
72. The student will estimate body surface area (BSA) involved and compare estimate with the actual BSA as reported by unit staff.

The student will be familiar with the care and treatment of the behavioral/psychiatric patient.
73. The student will observe staff interaction with patients in the Behavioral Health Unit or evaluation area.
74. The student will assist staff in the care of patients as appropriate.
75. The student will discuss with staff, if appropriate, special procedures in caring for psychiatric patients.
76. The student will discuss with staff the various medications that may be encountered in the field when dealing with patients who have behavioral health issues.
77. The student will discuss with staff the various behavioral health issues that may present in patients.

The student will be familiar with the care and treatment of patients undergoing cardiac catheterization.
78. The student will observe cardiac catheterization and interventional cardiology procedures.
79. The student will assist staff with procedures related to general care of cardiac catheterization patients.
80. The student will assist staff with procedures related to cardiac care (applying and interpreting ECGs and assisting with 12-lead application, etc).
81. The student will correlate artery pathology with ECG change.
ASSESSMENT OF LEARNER OUTCOMES:
Assessment methods include, but may not be limited to: written tests, laboratory practicals, homework assignments and observation of professional behavior. Clinical preceptor evaluations of students are included when determining a grade.

Clinical rotations covered in this course include:
- Dialysis – 8 hours minimum
- Labor & Delivery – 36 hours minimum
- Respiratory Therapy – 12 hours minimum
- Pediatrics – 24 hours minimum
- Burn Unit – 12 hours minimum
- Behavioral Health – 8 hours minimum
- Cath Lab – 8 hours minimum
- First Response Pumper – 72 hours minimum
- Community Service – 24 hours minimum

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.

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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