EMS 100 Emergency Medical Technician (EMT)

I. Course Information

Credits	9
Campus	Washburn Tech
Address	5724 SW Huntoon Street Topeka, Kansas 66604
Office FAX	785-273-7080

II. Course Description

This program is sponsored by Washburn Tech and is approved by the Kansas Board of Emergency Medical Services. It is based on current information and techniques considered to be the responsibility of the EMT according to the National Highway Traffic and Safety Administration, National Standard Curriculum, as enriched by the Kansas Board of EMS. This course exceeds the state and national requirements.

It consists of a minimum of 140 hours of didactic and psychomotor skills in the classroom. This program consists of didactic and psychomotor skills instruction; skills demonstrations; clinical and field experience; orientation to the emergency department and ambulance; and an extrication class.

The course will also contain simulated experiences in patient care and handling.
This knowledge must be learned and maintained in order to function effectively as an EMT as it is an applied science.

III. Textbooks and Other Necessary Equipment

Textbook:

1. Brady, *Prehospital Care,* 10th edition (ISBN 0133369137)
2. MyBradyLab (ISBN 0134045068)

Additional materials:

Shoes: Students are to have black shoes/boots for Hospital and Field Internship use. No canvas, sandals, clogs, heels or croc-like shoes are allowed. Shoes must be consistent with hospital/ambulance service policies. Shoes must be clean.

Watch: Students are to have a watch able to mark seconds. Expensive watches ARE NOT recommended.

Textbooks/Workbooks: Textbooks for EMT Classes will be available for purchase through the College Bookstore. Books may be purchased at the time of enrollment.

Uniform: A dark blue/navy blue t-shirt with the KCKCC EMS logo over the left breast and matching blue EMT type trousers with black shoes/boots.

Name Badge: College ID badge will be used for identification in the Hospital/Field Internship environment.
Personal computer availability is REQUIRED with a high speed internet connection. Computers are available at many locations, including Bennett Computer Center at Washburn University and on the Washburn Tech Campus in the main building.

IV. Student Learning Outcomes

1. Communicate effectively
2. Integrate technology
3. Learn effectively – use academics effectively
4. Demonstrate cooperative/teamwork skills
5. Apply safety
6. Think critically and creatively
7. Demonstrate responsible work ethics

V. Competencies

The learner will demonstrate proficiency in adult, child, and infant CPR procedures and skills.

1. The learner will demonstrate adult obstructed airway maneuvers.
2. The learner will demonstrate adult CPR procedures.
3. The learner will demonstrate child obstructed airway maneuvers.
4. The learner will demonstrate child CPR procedures.
5. The learner will demonstrate infant obstructed airway maneuvers.
6. The learner will demonstrate infant CPR procedures.
7. The learner will demonstrate rescue breathing for adult, child and infants.
8. The learner will discuss use of the Automatic external defibrillator and resuscitation of the cardiac arrest patient.
9. The learner will relate risk factors associated to heart disease & strokes.
10. The learner will pass CPR written exam with score of 84% or higher.
11. **IF YOU CANNOT PASS THE WRITTEN EXAMINATION AFTER TWO (2) ATTEMPTS, YOU WILL NOT BE ALLOWED TO CONTINUE IN THE EMT COURSE. YOU WILL NEED TO WITHDRAW FROM CLASS.**

The learner will discuss the responsibilities and the well-being of the EMT.

12. The learner will relate body substance isolation procedures to specific patient care.
13. The learner will relate principles of scene safety to patient care scenarios.
14. The learner will discuss stress management.

The learner will discuss medical, legal, ethical and human issues of prehospital care.

15. The learner will define scope of practice and relate it to legal duties and ethical responsibilities.
16. The learner will define types of patient consent.
17. The learner will discuss patient refusal and advance directives.
18. The learner will define and discuss negligence and the reporting of special situations.

The learner will discuss anatomical structures and the function, obtaining vital signs and history taking.

19. The learner will discuss anatomy & function of the musculoskeletal system.
20. The learner will discuss anatomy & function of the respiratory system.
21. The learner will discuss anatomy & function of the circulation system.
22. The learner will discuss anatomy & function of the nervous system.
23. The learner will discuss anatomy & function of the endocrine system.
24. The learner will discuss anatomy & function of the skin.

The learner will demonstrate the correct procedures and techniques for obtaining vital signs.

25. The learner will demonstrate assessment of respiratory rate, regularity & quality.
26. The learner will demonstrate assessment of pulse rate, regularity & quality.
27. The learner will demonstrate assessment of skin moisture, temperature & condition.
28. The learner will demonstrate assessment of pupil size & reactivity to light.
29. The learner will demonstrate assessment of blood pressure.
30. The learner will demonstrate assessment of ability to secure SAMPLE history.

The learner will demonstrate correct procedures and techniques for managing a patient's airway.

31. The learner will discuss anatomy & function of the respiratory system.
32. The learner will discuss the airway anatomy in infants & children and relate it to care.
33. The learner will demonstrate appropriate airway opening techniques.
34. The learner will demonstrate use of airway adjuncts and suction equipment.
35. The learner will differentiate between adjuncts and inadequate breathing.
36. The learner will demonstrate techniques of artificial ventilation and relate them to specific situations.
37. The learner will demonstrate correct operation of oxygen tanks and regulators and relate use to specific situations.
38. The learner will discuss & demonstrate special airway management considerations.
39. The learner will discuss & demonstrate use of the ETC Multi-lumen Airway (Combitube).
40. The learner will discuss & demonstrate use of the Esophageal Obturator Airway (EOA).
41. The learner will discuss the use of Endotracheal Intubation
42. The learner will demonstrate Sellick's Maneuver during insertion of an ET tube or Multi-lumen airway.

The learner will perform a complete patient assessment.

43. The learner will perform a scene size up.
44. The learner will perform an initial assessment.
45. The learner will perform a rapid trauma assessment and a focused.
46. The learner will perform a detailed trauma assessment.

47. The learner will perform an ongoing trauma assessment.
48. The learner will demonstrate assessment and recording of vital signs.
49. The learner will provide a description of the scene in the form of a radio report.

The learner will discuss mechanism, signs and symptoms, and management of trauma.

50. The learner will discuss mechanism of injury as it relates to kinetics trauma.
51. The learner will discuss bleeding & shock.
52. The learner will discuss soft tissue injuries.
53. The learner will discuss burn emergencies.
54. The learner will discuss musculoskeletal injuries and demonstrate use of appropriate splint in the management of those injuries.
55. The learner will demonstrate the proper techniques of fully immobilizing a patient to a long spine board from both a supine and a standing position.
56. The learner will discuss injuries of the head.
57. The learner will discuss injuries of the spine.
58. The learner will discuss injuries of the eye, face & neck.
59. The learner will discuss injuries of the chest, abdomen & genitals.
60. The learner will discuss agricultural and industrial emergencies.

The learner will be familiar with the Kansas enrichments to the EMT curriculum.

61. The learner will discuss the Kansas Enrichment regarding EMT-Bs and IVs.
62. The learner will discuss and demonstrate how to properly spike an IV.
63. The learner will discuss how to monitor acceptable flow in a non-medicated IV.
64. The learner will discuss the signs and symptoms indicating the flow of a monitored IV should be stopped.
65. The learner will discuss and demonstrate how to stop the flow of a monitored IV.

VI. Guidelines for Success

Written evaluations are the most appropriate and effective process for measurement and assessment of the student's success in converting content into knowledge. Psychomotor evaluations provide feedback to both the instructor(s) and student on the ability of the student to perform specific skills.

Results of written, psychomotor, affective evaluations along with observational reports detailing student class participation and interactions will be considered in the final grade. A passing grade of "C" or better will constitute permission to challenge the certification examination.

The following is a breakdown of how the final course grade is computed:

Written Examinations	25%	(Unit/chapter formative evaluation)
Quizzes	25%	(As assigned by instructor)
Affective Domain	15%	(Patient/student/preceptor interaction)
Homework/Classwork	25%	(As assigned by instructor)
Final Written Exam	35%	(Summative course examination)

Psychomotor skills will be evaluated on a PASS/FAIL basis.

The course final grading scale:

A= 92-100% and Pass Psychomotor skills
B= 83-91.99% and Pass Psychomotor Skills
C= 75-82.99% and Pass Psychomotor Skills **(MINIMUM PASSING GRADE)**
D= 70-74.99% and Pass Psychomotor Skills
F= 69.99 or less or **Fail Psychomotor Skills**

The instructor/coordinator may consult with the Medical Advisor, utilize preceptor input on clinical/field evaluation forms, or consult with Board of EMS staff concerning a student's readiness to take the certification examination.
The instructor/coordinator and EMT Director have the final decision on all matters pertaining to this course of instruction.

VII. Attendance

109-11-8 Successful Completion of a course of instruction.

(a) To successfully complete a course of instruction as an attendant or instructor-coordinator, each student shall:
    (1) attend at least 90% of the class sessions described in the course syllabus;
    (2) maintain an average grade of at least 70% for all examinations given during the program; and
    (3) demonstrate all practical skills to the satisfaction of the course coordinator.
(b) The course coordinator shall provide written approval, within 15 days of the final class, that the requirements of subsection (a) of this regulation have been met. Evidence of a grade of "C" or better on a course of instruction given by an accredited post-secondary school shall substitute for written approval.

A class session by definition is the full four and one-half hours of classroom attendance, twice a week; arriving and leaving on time for clinical and field internships and attending the Saturday extrication class.

Proof of attendance is your signature on the proper page of the attendance roster (must be legible). Students exceeding allowed absences may be dropped from the course.
If a student must be absent, contact the instructor/coordinator PRIOR to class. There is a MAXIMUM OF THREE (3) ABSENCES ALLOWED. Excused or unexcused absences both count as absences. Special consideration may be given in case of an emergency. These will be evaluated on an individual basis. Documentation, such as a note from your physician, may be requested.

Due to the amount of material covered and the speed of which it is covered, students are expected to be prompt for all class sessions, complete assignments prior to class and remain in class until the stated ending time. Habitual tardiness or leaving early will not be tolerated.

Any student more than 10 minutes late or leaving class early will be considered absent. Special consideration may be given in case of an emergency.

Any student failing to meet the attendance requirements as stated above may receive a failing grade for the course. The instructor/coordinator reserves the right to administratively withdraw a student for non-attendance or exceeding allowed absences for the course.

VIII. Disability

The Americans with Disabilities Act (ADA) Office is responsible for assisting and arranging accommodations and for identifying resources At Washburn Tech for persons with disabilities. Qualified students with disabilities MUST self-identify by completing an application. In addition, students must provide appropriate medical documentation to the ADA coordinator to be eligible for accommodations. New requests for accommodations should be submitted at least two months or more prior to the date accommodations are needed. However, please contact the ADA office as soon as a need may arise. Depending on the accommodation request, four to eight weeks lead time may be needed for timely and effective provision of accommodations.

The ADA Office coordinates and assists in arranging accommodations it deems appropriate for eligible students on a case-by-case basis. If you are a student with a disability that may substantially limit your ability to participate in any of our classes and you believe that you would need accommodations, it is your responsibility to contact:

ADA Coordinator
Phone: 785-228-6356
E-mail: gloria.christian@washburn.edu