# Barton Community College

# Course Syllabus

# GENERAL COURSE INFORMATION

## Course Number: EMTS 1543

## Course Title: Paramedic IV

## Credit Hours:16

## Prerequisites:Paramedic III and consent of instructor.

## Division/Discipline:Workforce Training and Community Education/Emergency Medical Services Education

Course Description: This course is intended to make students aware of Emergency Medical Services as a total systems concept. It further identifies the Paramedic concept, function, roles and responsibilities of the Paramedic within the system as well as the legal aspects of prehospital medicine and an introduction to legislation affecting prehospital medicine. This course will also expose the student to the basics of anatomy and physiology of the human body. All aspects of EMS communications will be reviewed, to include medical terminology, radio technology, verbal and written communication. This course covers the physiologic effects and clinical applications for pharmacology in the prehospital setting. Students will learn to recognize, assess, and manage emergency situations that result from external mechanisms of injury and the pathophysiology involved in traumatic injuries. This course adheres to Kansas Administrative Regulations (K.A.R.), Article 10 Section 109-10-5.

Students completing this course will receive a Barton certificate of completion and with permission of the program director, will be eligible to sit for the National Registry of EMT Certification Exam.

# INSTRUCTOR INFORMATION

# COLLEGE POLICIES

## Students and faculty of Barton Community College constitute a special community engaged in the process of education. The College assumes that its students and faculty will demonstrate a code of personal honor that is based upon courtesy, integrity, common sense, and respect for others both within and outside the classroom.

## Plagiarism on any academic endeavors at Barton Community College will not be tolerated. The student is responsible for learning the rules of, and avoiding instances of, intentional or unintentional plagiarism. Information about academic integrity is located in the Student Handbook.

## The College reserves the right to suspend a student for conduct that is determined to be detrimental to the College educational endeavors as outlined in the College Catalog, Student Handbook, and College Policy & Procedure Manual. (Most up-to-date documents are available on the College webpage.)

## Any student seeking an accommodation under the provisions of the Americans with Disability Act (ADA) is to notify Student Support Services via email at disabilityservices@bartonccc.edu.

# COURSE AS VIEWED IN THE TOTAL CURRICULUM

## The Kansas Board of Emergency Medical Services has approved this class. It is designed to enhance the knowledge and skills of the Emergency Medical Technician. The class consists of didactic (lecture) instruction, practical skills training, and clinical experience. The class is not required for the Paramedic program.

# ASSESSMENT OF STUDENT LEARNING

## Barton Community College is committed to the assessment of student learning and to quality education. Assessment activities provide a means to develop an understanding of how students learn, what they know, and what they can do with their knowledge. Results from these various activities guide Barton, as a learning college, in finding ways to improve student learning.

Primary Program Goal:

To prepare competent entry-level Paramedics in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains with or without exit points at the Advanced Emergency Medical Technician and/or Emergency Medical Technician, and /or Emergency Medical Responder levels.

Objective 1A:

Upon graduation, the graduate will demonstrate the ability to comprehend, apply, and evaluate clinical information relevant to their role of an entry-level Paramedic.

Objective 2A:

Upon graduation, the graduate will demonstrate technical proficiency in all skills necessary to fulfill the role of an entry-level Paramedic.

Objective 3A:

Upon graduation, the graduate will demonstrate personal behaviors consistent with professional and employer expectations of an entry-level Paramedic.

Course Outcomes, Competencies, and Supplemental Competencies:

1. Demonstrate an understanding of the rationale, physiology, and fundamentals of prehospital care and treatment of the sick and injured.
2. Identify cellular structures and explain their respective functions.
3. Identify and describe the 12 systems of the body.
4. Identify and describe the physiology of the homeostatic systems that control metabolism.
5. Demonstrate an understanding of EMS.
6. List the components of an EMS system.
7. Describe the White Papers and the importance to EMS today.
8. Describe the major historical events that helped create EMS and bring it into the 21st century.
9. Demonstrate an initial and secondary assessment.
10. Perform a primary assessment.
11. Perform a secondary assessment.
12. Perform an ongoing assessment.
13. Utilize appropriate treatment modalities during patient assessment.
14. Recognize medical emergencies and make an appropriate working diagnosis.
15. Demonstrate the importance of a step-by-step approach to assessing each patient.
16. List the diagnosis that might cause changes in level of consciousness or an altered mental status of the adult, child, and infant patient.
17. List the components of an EMS system.
18. Proficiently stabilize an airway.
19. Demonstrate competency of maintaining a patient’s airway.
20. Demonstrate proper insertion of basic life support adjunct airways.
21. Demonstrate proper insertion of advanced life support adjunct airways.
22. Complete appropriate paperwork.
23. Write, at a minimum, 30 run reports during field internship.
24. Complete FISDAP entries for clinical and internship experiences prior to set deadlines.
25. Communicate effectively during the program.
26. Demonstrate effective communication with the hospital nursing staff and physicians.
27. Demonstrate empathy and caring, when interacting with patients, families, and bystanders.
28. Demonstrate professional and a working relationship when working with outside agencies during clinicals and internship.
29. Demonstrate compassion, accountability, respect, and empathy to instructors, classmates, preceptors, patients, and any others contacted during the program.
30. Maintain Scene Safety during an incident.
31. Explain the rational for securing the scene and providing a safe environment for the patient and rescue personnel.
32. Identify unsafe scenes and describe methods for making them safe.
33. Identify and use the appropriate body substance isolation and personal protective equipment needed during a scene.
34. Describe the correct safety measures needed during extrication of a patient.
35. Treat electrocardiogram (ECG) dysrhythmias.
36. Demonstrate proficiency of utilizing ECG monitoring techniques including basic ECG, 12-lead, defibrillation, cardioversion, and pacing.
37. Interpret basic and 12-lead ECG patterns and recognize the significance of the rhythms.
38. Show the appropriate electrical or pharmacological treatment necessary for a dysrhythmia.
39. Pass Advanced Cardiac Life Support and maintain certification.
40. Demonstrate Pharmacological interventions.
41. List the class, indications, contraindications, side effects, and dose, pediatric dose for required medications.
42. Demonstrate how to accurately initiate an intravenous and intraosseous (IV/IO) drip or lock and give IV/IO medications.
43. Demonstrate how to give intramuscular and subcutaneous injections.
44. Figure drug calculations including IV bolus and medication drips.

# INSTRUCTOR’S EXPECTATIONS OF STUDENTS IN CLASS

# TEXTBOOKS AND OTHER REQUIRED MATERIALS

# REFERENCES

# METHODS OF INSTRUCTION AND EVALUATION

# ATTENDANCE REQUIREMENTS

# COURSE OUTLINE