

Florida Department of Education
CURRICULUM FRAMEWORK

Program Title:	Emergency Medical Technician (Basic)-ATD	
Occupational Area:	Health Science Education	
District CIP	0317.020504-(250 hrs.)	Program Number
		W170208
CC CIP	0317.020503-(11 credits)	
Grade Level	Applied Technology Diploma (ATD)	
Length	250 hours	
Faculty Credentials	(See special note)	
Basic Skills		
English	10	
Math	10	
Reading	10	
Transfer Value	11 credit hours into EMS	

- I. **MAJOR CONCEPTS/CONTENT:** This is an instructional program that prepares students for employment as emergency medical technicians SOC 29-2041 to function at the basic pre-hospital emergency medical technician (basic) level and treat various medical/trauma conditions using appropriate equipment and materials. The program prepares students for certification as EMT's in accordance with Chapter 64E-2 of the Florida Administrative Code. The program must be approved by the Department of Health, Office of Emergency Medical Services and the curriculum must adhere to the US Department of Transportation (DOT) Emergency Medical Technician-(Basic) National Standards Curriculum. This is the initial level for a career in emergency medical services and the primary prerequisite for paramedic training and certification.

Reinforcement of basic skills in English, mathematics, and science appropriate for the job preparatory programs occurs through vocational classroom instruction and applied laboratory procedures or practice.

Emergency Medical Technician - (Basic) content includes, but is not limited to: patient assessment, airway management, cardiac arrest, external and internal bleeding and shock, traumatic injuries, fractures, dislocations, sprains, poisoning, heart attack, stroke, diabetes, acute abdomen, communicable diseases, patients with abnormal behavior, alcohol and drug abuse, the unconscious state, emergency childbirth, burns, environmental hazards, communications, reporting, extrication and transportation of patient. The student must be proficient in patient assessment and evaluation, the use of suctioning devices, oral and nasal airways, resuscitation devices, oxygen equipment, sphygmomanometer and stethoscope, splints of all types, pneumatic antishock garments, extrication tools, dressings and bandages, stretchers and patient carrying devices.

Students must complete this program, or demonstrate the mastery of skills standards contained in this program, before advancing in either of the other programs in this cluster. Completion of this program should prepare the student for the certification examination approved for the state of Florida.

The following diagram illustrates the program structure.

OCP B Emergency Medical Technician-Basic 160 Hours SOC Code 29-2041 Emergency Medical Technicians and Paramedics
OCP A Health Science Core 90 Hours SOC Code 31-9099 Healthcare Support Workers, All Others

Total Program Length 250 Hours

II. LABORATORY ACTIVITIES:

Clinical Activities: The recommended instructor-student ratio should not exceed 1:8. Hospital activity shall include a minimum of 20 hours of supervised experience in the hospital emergency department. Clinical activity shall include appropriate patient assessment skills, intervention and documentation relevant to each clinical rotation.

Laboratory facilities and equipment must be provided. Laboratory activities must be correlated with didactic instruction, reinforced in the clinical area, and must be supervised by an instructor. The Human Patient Simulator (HPS) may be used for a limited number of clinical hours with prior approval of governing boards and/or agencies. This does not replace the 20 hours of supervised clinical in the ER.

Field Internship Activities: Field internship shall include a competency based program to assure appropriate pre-hospital assessment and management of medical and trauma patients, as well as associated manual skills. The field internship activity shall include a minimum of 5 emergency runs resulting in patient care and transport appropriate for the EMT. In addition, the patient care component should include minimum competencies in patient assessment, airway management and ventilation, trauma and medical emergencies.

III. SPECIAL NOTE: Either a community college or school district may offer the Applied Technology Diploma program as a college credit or vocational credit (Vocational Technical Center may offer only as vocational credit). Students completing an ATD at a vocational technical center will be awarded the guaranteed college credit upon enrollment to the community college.

This program is part of the Emergency Medical Services AS degree and guarantees transfer of eleven (11) credit hours toward the related AS degree. Minimum entrance requirements for this program include a high school diploma or GED unless a high school student is dual enrolled. If dual enrolled, students must have the HS diploma or GED and meet the requirements to sit for the national certification examination. Students must meet the minimum basic skills levels to complete this program.

Faculty teaching this program must have a minimum of an AS degree in the discipline area or meet the "exceptional cases" criteria as established by the Southern Association of Colleges and Schools.

No fees will be charged for the transfer of credit from a vocational technical center to a community college. The established statewide fee structure will be adhered to by both delivery systems.

This program meets the Department of Health HIV/AIDS education requirements . Upon completion of this program, the instructor will provide a certificate to the student verifying that the HIV/AIDS requirements have been met.

An appropriate Career/Technical Student Organization (CSO) for providing the development of professionalism and leadership skills should be provided. These organizations may include HOSA (Health Occupations Students of America, Inc.), or an organization of the school's choice. This suggestion was made in light of the nature of EMT and Paramedic students which includes the adult learner already involved in unions or EMS professional groups as well as the newly graduated high school senior. CSO, when provided, shall be an integral part of the vocational instructional program, and the activities of such organizations are defined as part of the curriculum in accordance with Rule 6A-6.065(8), FAC.

An American Heart Association or Red Cross certification or the equivalent in "professional" BLS is required of all candidates for entrance into an EMT-B program. A student physical requirement must be met in accordance with Chapter 401 FS guidelines. A student must demonstrate a basic vocational/college-level preparation competency in English, mathematics and reading on either a standardized entrance examination or through appropriate remedial education/instruction.

The Student Performance Standards for Emergency Medical Technician-EMT-B were adapted and condensed from the U S Department of Transportation 1994 Emergency Medical Technician-Ambulance National Standard Curriculum Instructor's Lesson Plans. Administrators and instructors should refer to these materials for additional detail.

When the word demonstrate is used in a standard, it shall require the actual performance and operation be accomplished, unless otherwise indicated. Simulation, explanation, and illustration may be substituted when actual operation is not feasible.

The standard length of the program is 250 clock hours/11 credit hours which includes 90 hours for the core.

This program may be offered in courses. Vocational credit shall be awarded to the student on a transcript in accordance with Section 1001.44 F.S.

SCANS Competencies: Instructional strategies for this program must include methods that require students to identify, organize, and use resources appropriately; to work with each other cooperatively and productively; to acquire and use information; to understand social, organizational, and technological systems; and to work with a variety of tools and equipment. Instructional strategies must also incorporate the methods to improve students' personal qualities and high-order thinking skills.

Once students have successfully completed the EMT Basic Program, they may be given a certificate stating they have met all First Responder competency requirements.

Equipment List: A generic equipment list is available for this cluster and is available upon request.

Federal and state legislation requires the provision of accommodations for students with disabilities to meet individual needs and ensure equal access. Adult students with disabilities must self-identify and request such services. Students with disabilities may need accommodations in such areas as instructional methods and materials, assignments and assessments, time demands and schedules, learning environment, assistive technology and special communication systems. Documentation of the accommodations requested and provided should be maintained in a confidential file.

IV. **INTENDED OUTCOMES:**

Outcomes 01-11 are referred to as the Health Science Core and do not have to be completed if the student has previously completed the Core in another health occupations program at any level. The Core should be taken first or concurrently with the first course in the program. Following the successful completion of the core, the student is eligible to take the national internet certification examination (Nocti) with instructor approval and the completion of a portfolio.

OCP A-Basic Healthcare Worker- SOC Code 31-9099 Healthcare Support Workers, All Others

After successfully completing this program, the student will be able to:

HEALTH SCIENCE CORE (01-11)

- 01.0 Demonstrate knowledge of the health care delivery system and health occupations.
- 02.0 Demonstrate the ability to communicate and use interpersonal skills effectively.
- 03.0 Demonstrate legal and ethical responsibilities.
- 04.0 Demonstrate an understanding of and apply wellness and disease concepts.
- 05.0 Recognize and practice safety and security procedures.
- 06.0 Recognize and respond to emergency situations.
- 07.0 Recognize and practice infection control procedures.
- 08.0 Demonstrate computer literacy.
- 09.0 Demonstrate employability skills.
- 10.0 Demonstrate knowledge of blood borne diseases, including AIDS.
- 11.0 Apply basic math and science skills.

EMERGENCY MEDICAL TECHNICIAN (Basic) (12-26) OCP-B Soc Code 29-2041 (Emergency Medical Technicians and Paramedics)

- 12.0 Demonstrate knowledge of the EMT-B care system.
- 13.0 Describe maintenance of EMT-B well-being.

- 14.0 Describe medical/legal/ethical issues specific to EMT-B.
- 15.0 Take baseline vital signs and sample history.
- 16.0 Lift and move patients
- 17.0 Accomplish basic and advanced airway management.
- 18.0 Evaluate the scene of a trauma or medical emergency.
- 19.0 Demonstrate initial and ongoing assessments.
- 20.0 Perform focused and detailed history and physical exams.
- 21.0 Demonstrate ability to communicate as an EMT-B.
- 22.0 Assist patients to administer medications.
- 23.0 Respond correctly to various medical/behavioral/OB/GYN emergencies.
- 24.0 Manage various trauma situations.
- 25.0 Manage emergency situations involving infants/children.
- 26.0 Demonstrate knowledge of the emergency service operation.

**Florida Department of Education
STUDENT PERFORMANCE STANDARDS**

Program Title: Emergency Medical Technician (Basic)
Postsecondary Number: W170208

HEALTH SCIENCE CORE: The Health Science Core is a core of basic knowledge necessary for any health occupations career. Students who have previously completed the Health Science Core in any other health occupations program do not have to repeat intended outcomes 01-11.

OCP A-Basic Healthcare Worker- SOC code 31-9099 Healthcare Support Workers, all others

- 01.0 DEMONSTRATE KNOWLEDGE OF THE HEALTH CARE DELIVERY SYSTEM AND HEALTH OCCUPATIONS -- The student will be able to:
- 01.01 Identify the basic components of the health care delivery system.
 - 01.02 Describe the various types of health care providers and the range of services available including resources to victims of domestic violence.
 - 01.03 Describe the composition and functions of a health care team.
 - 01.04 Identify the general roles and responsibilities of the individual members of the health care team.
 - 01.05 Develop a basic understanding of human needs throughout the lifespan.
 - 01.06 Explain the importance of maintaining professional competence through continuing education.
 - 01.07 Describe trends affecting the delivery system of health care.
- 02.0 DEMONSTRATE THE ABILITY TO COMMUNICATE AND USE INTERPERSONAL SKILLS EFFECTIVELY -- The student will be able to:
- 02.01 Develop basic listening skills.
 - 02.02 Develop basic observational skills and related documentation strategies in written and oral form.
 - 02.03 Identify characteristics of successful and unsuccessful communication including barriers.
 - 02.04 Respond to verbal and non-verbal cues.
 - 02.05 Compose written communication using correct spelling, grammar, and format.
 - 02.06 Use appropriate medical terminology and abbreviations.
 - 02.07 Recognize the importance of courtesy and respect for patients and other health care workers and maintain good interpersonal relationships.
 - 02.08 Recognize the importance of patient/client education regarding health care.
 - 02.09 Adapt communication skills to varied levels of understanding and cultural orientation.
 - 02.10 Demonstrate telephone usage including taking messages.
 - 02.11 Demonstrate ability to give and follow directions.
 - 02.12 Distinguish between factual reports and personal opinion.
 - 02.13 Read and discuss technical material.

03.0 DEMONSTRATE LEGAL AND ETHICAL RESPONSIBILITIES

-- The student will be able to:

- 03.01 Discuss the legal framework of the health care occupation.
- 03.02 Explain the medical liability of health care workers.
- 03.03 Explain the patients' "Bill of Rights."
- 03.04 Describe a Code of Ethics consistent with the health care occupation.
- 03.05 Discuss the importance of maintaining confidentiality of information, including computer information.
- 03.06 Recognize the limits of authority and responsibility of health care workers.
- 03.07 Recognize and report illegal and unethical practices of health care workers.
- 03.08 Recognize and report abuse and neglect.
- 03.09 Recognize sexual harassment and domestic violence.

04.0 DEMONSTRATE AN UNDERSTANDING OF AND APPLY WELLNESS AND DISEASE CONCEPTS -- The student will be able to:

- 04.01 Develop a basic understanding of the structure and function of the body systems.
- 04.02 Identify personal health practices and environmental factors which affect optimal function of each of the major body systems.
- 04.03 Identify psychological reactions to illness including defense mechanisms.
- 04.04 Recognize the steps in the grief process.
- 04.05 Explain basic concepts of positive self image, wellness and stress.
- 04.06 Develop a wellness and stress control plan that can be used in personal and professional life.
- 04.07 Explain the nutrition pyramid.
- 04.08 Discuss the adverse effects of the use of alcohol, illegal drugs and steroids on the human body.

05.0 RECOGNIZE AND PRACTICE SAFETY AND SECURITY PROCEDURES -- The student will be able to:

- 05.01 Demonstrate the safe use of medical equipment.
- 05.02 Recognize and report safety hazards.
- 05.03 Identify and practice security procedures for medical supplies and equipment.
- 05.04 Demonstrate proper body mechanics.
- 05.05 Demonstrate the procedure for properly identifying patients.
- 05.06 Demonstrate procedures for the safe transport and transfer of patients.
- 05.07 Describe fire safety and evacuation procedures.
- 05.08 Discuss JCAHO patient safety goals. (www.JCAHO.org)

06.0 RECOGNIZE AND RESPOND TO EMERGENCY SITUATIONS -- The student will be able to:

- 06.01 Monitor and record vital signs.
- 06.02 Describe legal parameters relating to the administration of emergency care.
- 06.03 Attain and maintain CPR skills.
- 06.04 Demonstrate basic understanding of first aid and emergency care.

- 06.05 Recognize adverse drug related emergencies and take appropriate first aid action.
- 07.0 RECOGNIZE AND PRACTICE INFECTION CONTROL PROCEDURES -- The student will be able to:
 - 07.01 Demonstrate knowledge of medical asepsis and practice procedures such as handwashing and isolation.
 - 07.02 Demonstrate knowledge of surgical asepsis as utilized in sterilization.
 - 07.03 Describe how to dispose correctly of biohazardous materials, according to appropriate government guidelines such as OSHA.
- 08.0 DEMONSTRATE COMPUTER LITERACY -- The student will be able to:
 - 08.01 Define terms and demonstrate basic computer skills.
 - 08.02 Describe the uses of computers in health care.
- 09.0 DEMONSTRATE EMPLOYABILITY SKILLS -- The student will be able to:
 - 09.01 Conduct a job search.
 - 09.02 Secure information about a job.
 - 09.03 Identify documents that may be required when applying for a job.
 - 09.04 Complete a job application form correctly.
 - 09.05 Demonstrate competence in job interview techniques.
 - 09.06 Identify or demonstrate appropriate responses to criticism from employer, supervisor, or other persons.
 - 09.07 Identify acceptable work habits.
 - 09.08 Demonstrate knowledge of how to make job changes appropriately.
 - 09.09 Demonstrate desirable health habits.
 - 09.10 Recognize appropriate affective/professional behavior.
 - 09.11 Write an appropriate resume.
- 10.0 DEMONSTRATE KNOWLEDGE OF BLOOD BORNE DISEASES, INCLUDING AIDS -- The student will be able to:
 - 10.01 Distinguish between fact and fallacy about the transmission and treatment of diseases caused by blood borne pathogens including Hepatitis B.
 - 10.02 Identify community resources and services available to the individuals with diseases caused by blood borne pathogens.
 - 10.03 Identify "at risk" behaviors which promote the spread of diseases caused by blood borne pathogens and the public education necessary to combat the spread of these diseases.
 - 10.04 Apply infection control techniques designed to prevent the spread of diseases caused by blood borne pathogens to the care of all patients following Centers for Disease Control (CDC) guidelines.
 - 10.05 Demonstrate knowledge of the legal aspects of AIDS, including testing.
- 11.0 APPLY BASIC MATH AND SCIENCE SKILLS -- The student will be able to:
 - 11.01 Draw, read, and report on graphs, charts and tables.

- 11.02 Measure time, temperature, distance, capacity, and mass/weight.
- 11.03 Make and use measurements in both traditional and metric units.
- 11.04 Make estimates and approximations and judge the reasonableness of the result.
- 11.05 Convert from regular to 24 hour time.
- 11.06 Demonstrate ability to evaluate and draw conclusions.
- 11.07 Organize and communicate the results obtained by observation and experimentation.
- 11.08 Ask appropriate scientific questions and recognize what is involved in experimental approaches to the solution of such questions.
- 11.09 Calculate ratios.

EMERGENCY MEDICAL TECHNICIAN (Basic): Intended outcomes 12-26 complete the occupational exit of EMT-B. The outcomes may be taught as one or more modules at the postsecondary level. OCP-BSoc Code 29-2041
Emergency Medical Technicians and Paramedics

12.0 DEMONSTRATE KNOWLEDGE OF THE EMT-B CARE SYSTEM--The student will be able to:

- 12.01 Define Emergency Medical Services (EMS) systems.
- 12.02 Differentiate the roles and responsibilities of the EMT from other prehospital care providers.
- 12.03 Describe the roles and responsibilities related to safety, quality improvement, and medical direction and the EMT's role in the process.
- 12.04 State the specific Florida statutes and regulations regarding the EMS system.
- 12.05 Assess areas of personal attitude and conduct of the EMT.
- 12.06 Characterize the various methods used to assess the EMS system.

13.0 DESCRIBE MAINTENANCE OF EMT-B WELL-BEING--The student will be able to:

- 13.01 List possible emotional reactions that the EMT, the EMT's family, and the patient's family may experience when faced with trauma, illness, death or dying of an adult, child, or infant.
- 13.02 State the steps in the EMT's approach to the family confronted with death or dying of an adult, child, or infant.
- 13.03 Recognize the signs and symptoms of critical incident stress and state ways of alleviating the stress.
- 13.04 Explain the need to determine scene safety, including the importance of body substance isolation (BSI), and the steps the EMT should take for personal protection from airborne and bloodborne pathogens.
- 13.05 List the personal protective equipment necessary for various situations.
- 13.06 Use, remove and discard protective garments and complete disinfecting, cleaning and reporting documentation in all potential infectious exposure situations or simulated scenarios.
- 13.07 Demonstrate knowledge of the medical-legal aspects of significant exposure cases for the patient and the EMT.

- 14.0 DESCRIBE MEDICAL/LEGAL/ETHICAL ISSUES SPECIFIC TO EMT-B--The student will be able to:
- 14.01 Define the EMT scope of practice.
 - 14.02 Discuss the importance of and the rationale for DNR advance directives and local and state provisions regarding EMS application.
 - 14.03 Explain the rationale for the concept of varying degrees of DNR.
 - 14.04 Define consent (implied and expressed) and discuss methods of obtaining consent
 - 14.05 Discuss the implications for the EMT in patient refusal of transport, and in abandonment, negligence, and battery.
 - 14.06 Discuss the considerations of the EMT in organ retrieval.
 - 14.07 State the conditions that require an EMT to notify local law enforcement officials and differentiate the actions that need to be taken to assist in the preservation of a crime scene.
 - 14.08 Implement appropriate JCAHO patient safety goals.
- 15.0 TAKE BASELINE VITAL SIGNS AND SAMPLE HISTORY--The student will be able to:
- 15.01 Assess vital signs, differentiating normal from abnormal.
 - 15.02 Assess skin color ,temperature, state of dryness or moistness, and capillary refill
 - 15.03 Assess pupils, including size, reactive and non-reactive, and equal and unequal.
 - 15.04 Explain the difference between auscultation and palpation for obtaining a blood pressure.
 - 15.05 Identify the components and the importance of the SAMPLE history.
 - 15.06 Differentiate between a sign and a symptom.
 - 15.07 Demonstrate the skills used to obtain information from the patient, family, or bystanders at the scene.
 - 15.08 Discuss the need to search for additional medical identification.
- 16.0 LIFT AND MOVE PATIENTS--The student will be able to:
- 16.01 Describe the guidelines and safety precautions for moving or carrying patients and/or equipment specific to EMT.
 - 16.02 State three situations that may require the use of an emergency move.
 - 16.03 Identify, prepare for use, and demonstrate use of the following patient carrying devices - wheeled ambulance stretcher, stair chair, scoop stretcher, long spine board, basket stretcher, and flexible stretcher.
- 17.0 ACCOMPLISH BASIC AND ADVANCED AIRWAY MANAGEMENT--The student will be able to:
- 17.01 Describe the anatomy and physiology of the respiratory and airway system differentiating adult and infant, child.
 - 17.02 Differentiate between the signs of adequate and inadequate ventilation.
 - 17.03 Describe and demonstrate the steps in providing mouth-to-mouth artificial ventilation with body substance

- isolation (barriers) for adult, infant and child patients.
- 17.04 Demonstrate a knowledge of the parts and assembly of a bag-valve-mask system.
 - 17.05 Demonstrate ventilation of a patient with a bag-valve-mask system, including adult, infant and child.
 - 17.06 Demonstrate ventilation of a patient with a pocket mask.
 - 17.07 Demonstrate artificial ventilation of a patient utilizing a flow restricted, oxygen-powered ventilation device.
 - 17.08 Demonstrate artificial ventilation of a patient with a stoma.
 - 17.09 Demonstrate measurement and insertion of oropharyngeal and nasopharyngeal airways.
 - 17.10 Demonstrate oxygen administration for adult, infant, and child patients, including correct use of oxygen tanks and regulators, and correct flow rate.
 - 17.11 Demonstrate the use of a non-rebreather face mask, stating the correct flow rate and indications for its use.
 - 17.12 Demonstrate the use of a nasal cannula for oxygen administration, stating the correct flow requirements and indications for its use.
 - 17.13 Explain the pathophysiology of airway compromise.
 - 17.14 **(OPTIONAL)** Describe and demonstrate the indications, contraindications and technique for insertion of nasal gastric tubes in the adult and pediatric patient.
 - 17.15 **(OPTIONAL)** Demonstrate how to perform the Sellick maneuver (cricoid pressure).
 - 17.16 **(OPTIONAL)** Demonstrate orotracheal intubation in adult, infant, and child patients, utilizing curved blade, straight blade, and stylets.
 - 17.17 **(OPTIONAL)** Demonstrate endotracheal intubation, placement confirmation, and securement in the adult, infant, and child patient.
 - 17.18 Demonstrate the placement of a multi-lumen airway, tube confirmation, and securement in the adult patient.
 - 17.19 Demonstrate foreign body airway obstruction removal in the adult, infant and child patient.
- 18.0 EVALUATE THE SCENE OF A TRAUMA OR MEDICAL EMERGENCY--The patient will be able to:
- 18.01 Recognize and describe hazards/potential hazards.
 - 18.02 Discuss common mechanisms of injury/nature of illness.
 - 18.03 Identify the total number of patients at the scene and the need for additional help or assistance.
 - 18.04 Evaluate scene safety prior to entry.
- 19.0 DEMONSTRATE INITIAL AND ONGOING ASSESSMENTS--The student will be able:
- 19.01 Summarize reasons for forming a general impression of the patient.
 - 19.02 Describe and demonstrate the components of an initial assessment, including vital signs, skin condition, mental status, airway and breathing and external bleeding.
 - 19.03 Demonstrate the ability to prioritize patients.
 - 19.04 Discuss the reasons for repeating the initial assessment as part of the ongoing assessment.

- 19.05 Describe the components and demonstrate the skills of the on-going assessment.
- 19.06 Describe trending of assessment components.
- 20.0 PERFORM FOCUSED AND DETAILED HISTORY AND PHYSICAL EXAMS--The student will be able to:
 - 20.01 Discuss the reasons for and the areas included in the focused rapid trauma assessment and discuss what should be evaluated.
 - 20.02 Differentiate when the rapid assessment may be altered in order to provide patient care.
 - 20.03 Demonstrate the rapid trauma assessment that should be used to assess a patient based on mechanism of injury.
 - 20.04 Differentiate between and demonstrate the focused history and physical exam that is performed for responsive medical patients with no known prior history and responsive patients with a known prior history.
 - 20.05 Discuss the components of and areas of the body included in a detailed physical exam.
 - 20.06 Explain what additional care should be provided while performing the detailed physical exam.
 - 20.07 Distinguish between the detailed physical exam that is performed on a trauma patient and that of a medical patient.
 - 20.08 Demonstrate the skills involved in performing a detailed physical examination.
 - 20.09 Demonstrate the skills involved with the proper maintenance of an intravenous line, evaluation of patency, securement, and fluid flow rate appropriate for the indicated patient.
- 21.0 DEMONSTRATE ABILITY TO COMMUNICATE AS AN EMT-B--The student will be able to:
 - 21.01 List the proper methods of initiating and terminating a radio call.
 - 21.02 State the proper sequence for delivery of patient information.
 - 21.03 Identify the essential components of the EMT verbal report, stating the legal aspects to be considered.
 - 21.04 List the correct radio procedures in the following phases of a typical call; to the scene, at the scene, to the facility, at the facility, to the station, at the station.
 - 21.05 Perform a simulated, organized concise radio transmission, an organized, concise report that would be given to an ALS provider arriving at an incident scene at which the EMT was already providing care, and a patient report that would be given to the staff at a receiving facility.
 - 21.06 Correctly complete a pre-hospital report.
 - 21.07 Describe the legal implications associated with the written report and the special consideration concerning patient refusal.
 - 21.08 Discuss all state and local record and reporting requirements specific to EMS.
 - 21.09 Explain the rationale for using an accurate and synchronous clock so that information can be used in trending.

22.0 ASSIST PATIENTS TO ADMINISTER MEDICATIONS--The student will be able to:

- 22.01 Identify medications carried on the unit by brand and generic names.
- 22.02 Identify medications which the EMT may assist patients to administer by brand and generic names.
- 22.03 Discuss the various forms of medication and the rationale for their administration
- 22.04 Demonstrate general steps for assisting patient with self-administration of medications.
- 22.05 Correctly read labels and inspect each type of medication.

23.0 RESPOND CORRECTLY TO VARIOUS MEDICAL/BEHAVIORAL/OB/GYN EMERGENCIES--The student will be able to:

- 23.01 Describe and discuss the anatomy and physiology of the various body systems
- 23.02 Complete pre-hospital reports for patients with medical emergencies.
- 23.03 State the generic name, medication forms, dose administration, action, indications, contraindications and side effects of medications used for medical emergencies.
- 23.04 Evaluate the need for medical direction in medical emergencies.
- 23.05 Establish the relationship between the medical emergency condition and airway management.
- 23.06 Respond correctly to medical respiratory emergencies.
 - 23.06.01 Demonstrate the emergency medical care for breathing difficulty in adult, infant, and child patients.
 - 23.06.02 Differentiate between upper airway obstruction and lower airway disease in the infant and child patient.
 - 23.06.03 Demonstrate the steps in facilitating the use of an inhaler.
- 23.07 Respond correctly to medical cardiac emergencies.
 - 23.07.01 Define the role of the EMT-B in the emergency cardiac care system.
 - 23.07.02 Recognize the importance of prehospital ACLS intervention, if available, and the importance of urgent transport to a facility with ACLS if it is not available in the pre-hospital setting.
 - 23.07.03 Demonstrate the assessment and emergency care of a patient experiencing chest pain/discomfort, including correct positioning.
 - 23.07.04 List the indications and the contraindications for automated external defibrillation(AED) and the impact of age and weight on defibrillation.
 - 23.07.05 Demonstrate the application and operation of and assessment and documentation of the patient to the automated external defibrillator.

- 23.07.06 Demonstrate a knowledge of the types, their advantages and disadvantages, and the maintenance of automated external defibrillators.
- 23.07.07 Demonstrate the skills necessary to complete the automated defibrillator operator's checklist.
- 23.07.08 Assist a patient with self administration of nitroglycerin and assess and document the patient's response to it.
- 23.08 Respond correctly to diabetes with altered mental status emergencies.
 - 23.08.01 Identify the patient with altered mental status who is taking diabetic medication and the implications of a diabetes history.
 - 23.08.02 Administer oral glucose and assess and document the patient's response to it.
 - 23.08.03 Recognize the patient experiencing an allergic reaction.
 - 23.08.04 Demonstrate the emergency medical care of the patient experiencing an allergic reaction, differentiating between general allergic reactions and those requiring immediate medical care, including immediate use of the epinephrine autoinjector.
 - 23.08.05 Demonstrate the use of epinephrine auto-injector, including the assessment and documentation of the patient's response to it.
 - 23.08.06 Demonstrate proper disposal of equipment.
- 23.09 Respond correctly to allergy emergencies.
- 23.10 Respond correctly to poisoning and overdose emergencies.
 - 23.10.01 List various ways that poisons enter the body and signs and symptoms associated with poisoning.
 - 23.10.02 Demonstrate the steps in the emergency medical care of the patient with suspected poisoning and for those with possible overdose.
 - 23.10.03 Perform the necessary steps to provide a patient with activated charcoal.
 - 23.10.04 Demonstrate proper disposal of equipment for the administration of activated charcoal.
- 23.11 Respond correctly to environmental emergencies.
 - 23.11.01 Identify patients suffering from environmental emergencies, including heat exposure, cold exposure, water-related emergencies, and bites and stings.
 - 23.11.02 Describe the complications of near drowning.
 - 23.11.03 Demonstrate the assessment and emergency medical care of patients with exposure to cold, exposure to heat, near drowning, and bites and stings.
- 23.12 Respond correctly to behavioral emergencies.
 - 23.12.01 Define behavioral emergencies and discuss the general factors that may cause an alteration in patients' behavior.
 - 23.12.02 State the various reasons for psychological crisis.
 - 23.12.03 Discuss the characteristics of a patients' behavior which suggest he is at risk for suicide or violence.

- 23.12.04 Demonstrate the assessment and emergency medical care of the patient experiencing behavioral emergency.
- 23.12.05 Demonstrate various techniques to calm and/or restrain a patient with a behavioral problem.
- 23.13 Respond correctly to obstetrical and gynecological emergencies.
 - 23.13.01 Identify and explain the use of an obstetrics kit.
 - 23.13.02 Identify pre-delivery emergencies.
 - 23.13.03 Demonstrate the steps to assist in pre-delivery and in the normal cephalic delivery, and in the delivery of the placenta.
 - 23.13.04 Demonstrate necessary care procedures of the fetus as the head appears and of other neonatal procedures, including post-delivery care.
 - 23.13.05 Demonstrate how and when to cut the umbilical cord.
 - 23.13.06 Demonstrate the routine post delivery care and the emergency care of the mother with excessive bleeding.
 - 23.13.07 Demonstrate the procedures for the following abnormal deliveries: vaginal bleeding, breech birth, prolapsed cord, limb presentation.

24.0 MANAGE VARIOUS TRAUMA SITUATIONS--The student will be able to:

- 24.01 Establish the relationship between airway management and the trauma patient.
- 24.02 Establish the relationship between body substance isolation and various trauma situations.
- 24.03 Demonstrate completing a prehospital report for various trauma situations.
- 24.04 Respond correctly to bleeding and shock.
 - 24.04.01 Differentiate between arterial, venous, and capillary bleeding.
 - 24.04.02 Demonstrate the use of direct pressure, diffuse pressure, pressure points, and tourniquets in controlling external bleeding.
 - 24.04.03 Demonstrate the care of the patient exhibiting signs and symptoms of internal bleeding.
 - 24.04.04 Demonstrate the care of the patient exhibiting signs and symptoms of shock (hypoperfusion), including adult, infant, and child.
- 24.05 Respond correctly to soft tissue injuries.
 - 24.05.01 Identify types of closed and open soft tissue injuries.
 - 24.05.02 Demonstrate the steps in the care of closed soft tissue injuries and open soft tissue injuries.
 - 24.05.03 Demonstrate the steps in the emergency medical care of a patient with an open chest wound.
 - 24.05.04 Demonstrate the steps in the emergency medical care of a patient with an open abdominal wound.
 - 24.05.05 Demonstrate the steps in the emergency medical care of a patient with an impaled object.

- 24.05.06 Demonstrate the steps in the emergency medical care of a patient with an amputation or an amputated part.
- 24.05.07 Demonstrate the steps in the emergency medical care of a patient with superficial, partial thickness, full thickness, and chemical burns.
- 24.06 Respond correctly to musculoskeletal trauma situations.
 - 24.06.01 Differentiate between an open and a closed painful, swollen, deformed extremity
 - 24.06.02 State the reasons for, the general rules and the complications of splinting.
 - 24.06.03 Demonstrate the emergency medical care of a patient with a painful, swollen, deformed extremity.
- 24.07 Respond correctly to injuries to the head and spine.
 - 24.07.01 Identify potential spine and head injuries.
 - 24.07.02 Demonstrate opening the airway in a patient with a suspected spinal cord injury.
 - 24.07.03 Demonstrate evaluating a responsive patient with a suspected spinal cord injury.
 - 24.07.04 Demonstrate stabilization of the cervical spine.
 - 24.07.05 Demonstrate the two person and the four person log roll for a patient with a suspected spinal cord injury.
 - 24.07.06 Demonstrate securing a patient to a long spine board and the use of the short board immobilization technique.
 - 24.07.07 Demonstrate procedure for rapid extrication.
 - 24.07.08 Demonstrate preferred and alternative methods of stabilization of a helmet and helmet removal techniques.

25.0 MANAGE EMERGENCY SITUATIONS INVOLVING INFANTS/CHILDREN--The student will be able to:

- 25.01 Identify the developmental considerations for the following age groups: infants, toddlers, pre-school, school age, adolescent.
- 25.02 Describe differences in anatomy and physiology of the infant, child and adult patient.
- 25.03 Differentiate the response of the ill or injured infant or child (age specific) from that of an adult.
- 25.04 Indicate various causes of respiratory emergencies in the infant, child patient and differentiate between respiratory distress and respiratory failure.
- 25.05 Describe the methods of determining end organ perfusion in the infant and child patient.
- 25.06 State the usual cause of cardiac arrest in infants and children versus adults.
- 25.07 List the common causes and describe the management of seizures in the infant and child patient.
- 25.08 List the possible causes of sudden infant death syndrome (SIDS) and the EMT-B's role and relationship with family members.
- 25.09 Differentiate between the injury patterns in adults, infants, and children and discuss the field management of the infant and child trauma patient.
- 25.10 Summarize the indicators and the medical legal responsibilities in suspected child abuse.

- 25.11 Deal with the feelings of infant and child patients, the patient's family, and the EMT-B.
- 26.0 DEMONSTRATE KNOWLEDGE OF THE EMERGENCY SERVICE OPERATION--The student will be able to:
 - 26.01 List the phases of an ambulance call, discuss the medical and non-medical equipment needed to respond to a call, and identify what is essential for completion of a call.
 - 26.02 Describe the general provisions of state laws relating to the operation of the ambulance and privileges in any or all of the following categories: speed warning lights, sirens, right-of-way, parking, turning, contributing factors to unsafe driving.
 - 26.03 Describe the considerations that should be given to request for escorts, following an escort, and vehicle intersections and discuss "Due Regard For Safety of All Others".
 - 26.04 State the information essential in order to respond to a call and discuss various situations that may affect response to a call.
 - 26.05 Distinguish among the terms cleaning, disinfection, high-level disinfection, and sterilization and describe how to clean or disinfect items following patient care.
 - 26.06 Prepare a unit to respond after use.
 - 26.07 Define and discuss the fundamental components of extrication, its purpose, the role and protective equipment of the EMT-B, and the steps necessary to protect the patient
 - 26.08 Distinguish between simple and complex access and evaluate various methods of gaining access.
 - 26.09 Explain the EMT-B's role during a call involving hazardous materials or a hazard at the scene.