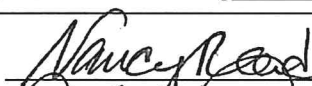




SECONDARY COURSE DESCRIPTION
SECTION A: COURSE CLASSIFICATION

ALAMEDA UNIFIED SCHOOL DISTRICT
 Excellence & Equity For All Students

1. Course Title: Sports Medicine 2/Emergency Medicine (EMT)	6. Prerequisite(s): Sports Medicine 1
2. Action: <input type="checkbox"/> New Course <input checked="" type="checkbox"/> Course Revision <input type="checkbox"/> Title Change Only	7. Grade Level: 11 - 12
3. Transcript Title/Abbreviation: SportMed2/EMT (For Educational Services)	8. Elective/Required: CTE Pathway Elective (1 year course)
4. Transcript Course Code/Course Number: VOAM (For Educational Services)	9. Subject Area: CTE – Health Professions and Patient Care
5. CBEDS Code: 7922 (For Educational Services)	10. Department: CTE
11. Length /Credits: <input type="checkbox"/> 0.5 (half year or semester equivalent) <input checked="" type="checkbox"/> 1.0 (one year equivalent) <input type="checkbox"/> 2.0 (two year equivalent)	
12. Was this course previously approved by UC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If so, year removed from list: _____	
13. Meets the "_____" requirements in the a-g university/college entrance requirement. Approval date: _____	
14. School Contact Information Name: <u>Anderson Zhang</u> Title/Position: <u>CTE Teacher</u> Phone: _____ Fax: _____ E-Mail: <u>azhang@alamedaunified.org</u>	
16. Signatures: Department Chair: <u></u> Principal: <u></u> Acknowledged by Other Principals: <u></u> _____ _____ Educational Services: _____	
16. BOE Approval Signature of Superintendent: _____ Date of Approval: _____	

SECTION B. COURSE CONTENT

17. Course Description:

Students enrolled in Sports Med 2/Emergency Medicine (EMT) will deepen their knowledge of anatomy and sports injuries while learning the skills required to successfully pass the NREMT Emergency Medical Technicians (EMT) certification exam. In addition to CPR/First Aid Certification training, students will learn the protocols required to respond to a comprehensive range of emergencies encountered by EMT professionals. Students will gain a comprehensive understanding of Emergency Medical Systems, Patient Transport and Assessment, Workforce Safety, Medical Terminology, Communication and Documentation. Additional topics such as diagnostic imaging, medical ethics, and professional conduct will also be covered. Students will have the opportunity to apply for hospital internship rotations provided through a partnership with Alameda Hospital coordinated by the Public Health Institute's *Faces for the Future* program. Structured placements will be arranged for students interested in completing the clinical hours required to be eligible to take the NREMT EMT Certification Exam. Sports Med 2 students are also eligible to gain experience volunteering as AHS Student Athletic Training Aide. All students will complete the skills training and will be tested on the ten components that comprise the NREMT Certification Exam. However, students may exercise the option to take the actual NREMT Certification Exam. Students must be at least 18 years old to be eligible to take the NREMT Certification Exam. This course is designed to align with Merritt College's EMT Basic Training Program.

18. Course Goals and/or Major Student Outcomes:

Students enrolled in this course will master the following skills:

Course Objectives (standards):

CTE - Patient Care Pathway

The standards for the Patient Care pathway apply to occupations or functions involved in the prevention, treatment, and management of illness and the preservation of mental and physical well-being through the services offered by the medical and allied health professions. The standards specify the knowledge and skills needed by professional and technical personnel pursuing careers in this pathway.

20. Course Outline:

Unit 1 – Introduction, Classroom Procedures and Safety

Description: Students are instructed of the class rules and procedures and safety guidelines. The class will also go over the class overview and be informed of the equipment and tools used in the class.

Unit 2 – Medical Professions and EMS Systems

Description: Students will explore the different types of medical professions and be introduced to emergency medical service systems (what it is and what makes it unique as a medical profession). Students will create a presentation after researching each profession, presenting what they have learned to the rest of the class.

CTE Standards:

B1.1 – Know relationship and use of an integrated health care delivery system

B12.0 – Adhere to the roles and responsibilities, within the scope of practice, that contribute to the design and implementation of treatment planning (includes B12.1 – B12.4)

Unit 3 – Medical, Legal, Ethical Issues and Workplace Safety

Description: Students will be instructed of the medical, legal, and ethical issues that may arise in a medical setting, such as HIPAA and DNR orders. They will also learn about why pieces of legislation exist to address these issues and what the consequences are if they are violated. Workplace safety will also be discussed.

CTE Standards:

B1.3 – Understand the significance of nontraditional approaches to health care in relationship to delivery systems

B1.5 – Describe the importance of reimbursement systems in relationship to the delivery of patient care

B6.5 – Report patient's progress and response to treatment goals

B6.6 – Maintain written guidelines of the HIPAA in all communications

B10.0 – Comply with protocols and preventative health practices necessary to maintain a safe and healthy environment for patients, healthcare workers, coworkers, and self within the health care setting (includes B10.1 – 10.7)

B11.0 – Comply with hazardous waste disposal policies and procedures, including documentation, to ensure that regulated waste is handled, packaged, stored, and disposed of in accordance with federal, state, and local regulations (includes B11.1 – B11.4)

B13.0 – Research factors that define cultural differences between and among different ethnic, racial, and cultural groups and special populations (includes B13.1 – B13.6)

Unit 4 – Common Medical Equipment in EMS and Human Anatomy

Description: Students will learn how to use some of the most common medical equipment associated with emergency medicine and sports injuries. Students will also form groups and build their own First Responder Bags, which will contain all of the tools they had just learned about. Each group will be responsible for their own bags, with the groups checking their bags using a checkoff list every day that is a skills/lab day. This unit will also go over human anatomy, reviewing the human body and terminology.

CTE Standards:

B2.1 – Know basic human body structure and function in relationship to specific care between prevention, diagnosis, pathology, and treatment

B2.2 – Describe basic stages of growth and development

B3.1 – Apply mathematical computations related to health care procedures (metric and household, conversions and measurements).

B3.3 – Record time using the 24-hour clock

B5.0 – Know the definition, spelling, pronunciation, and use of appropriate terminology in the health care setting (includes B5.1 – B5.7)

B8.1 – Explain the principles of body mechanics

Unit 5 – Patient Assessment: Medical

Description: This unit will concentrate on the patient assessment used if a patient is having a medical emergency. The types of medical emergencies will follow in the subsequent weeks, with the procedure being covered during this unit. Students will learn the different things to look for during each medical emergency. Students will also learn several mnemonics commonly used during any assessment. These include BENAMES (Body/Substance isolation, Environmental Safety, Number of Patients, Additional Resources, Mechanism of Injury vs Nature of Illness, Extrication, and Spinal precautions) and LOC (Level of Consciousness).

CTE Standards:

- B1.2 – Understand the range between prevention, diagnosis, pathology, and treatment procedures
- B2.4 – Compare normal function of the human body to the diagnosis and treatment of disease and disorders
- B4.1 – Conduct basic interview to acquire new knowledge
- B4.2 – Identify and summarize major life events as they impact health care practices and patient outcomes
- B4.3 – Observe patient actions, interests, and behaviors while documenting responses
- B4.4 – Collect and synthesize information or data about the patient's symptoms and vital signs
- B4.5 – Evaluate information gathered and connect patient data to appropriate system of care
- B5.0 – Know the definition, spelling, pronunciation, and use of appropriate terminology in the health care setting (includes B5.1 – B5.7)
- B6.0 – Communicate procedures and goals to patients using various communication strategies to respond to questions and concerns (includes B6.1 – B6.6)
- B7.0 – Apply observation techniques to detect changes in the health status of patients (includes B7.1 – B7.4)
- B8.0 – Demonstrate the principles of body mechanics as they apply to the positioning, transferring, and transporting of patients (includes B8.1 – B8.2)

Unit 6 – Overview of the Cardiorespiratory System and Taking Vital Signs

Description: Students will learn about the parts of the cardiorespiratory system, which encompasses the heart and airways and how they work. The students will learn the structures of the heart, lungs, blood vessels, and airways; also learning how each of these are interconnected and can influence each other. Students will also learn how to take a set of vital signs; which includes blood pressures, pulse rates, respiration rates, body temperatures, and skin signs. Students will also learn how to use tools that are used to take vitals, such as stethoscopes and blood pressure cuffs.

CTE Standards:

- B1.4 – Illustrate the value of preventive and early intervention in relationship to health care practices
- B2.3 – Recognize common disease and disorders of the human body
- B2.4 – Compare normal function of the human body to the diagnosis and treatment of disease and disorders
- B3.1 – Apply mathematical computations related to health care procedures (metric and household, conversions and measurements).
- B3.2 – Analyze diagrams, charts, graphs, and tables to interpret health care results
- B4.1 – Conduct basic interview to acquire new knowledge
- B4.3 – Observe patient actions, interests, and behaviors while documenting responses
- B4.4 – Collect and synthesize information or data about the patient's symptoms and vital signs
- B4.5 – Evaluate information gathered and connect patient data to appropriate system of care

B5.0 – Know the definition, spelling, pronunciation, and use of appropriate terminology in the health care setting (includes B5.1 – B5.7)

B6.0 – Communicate procedures and goals to patients using various communication strategies to respond to questions and concerns (includes B6.1 – B6.6)

B7.0 – Apply observation techniques to detect changes in the health status of patients (includes B7.1 – B7.4)

B8.0 – Demonstrate the principles of body mechanics as they apply to the positioning, transferring, and transporting of patients (includes B8.1 – B8.2)

B9.0 – Implement wellness strategies for the prevention of injury and disease (includes B9.1 – B9.6)

Unit 7 – Homeostasis, Shock Management

Description: Students will learn what homeostasis is, what the body is doing during this phenomenon, and why the body is responding this way. Students will also learn about what shock is and how to manage this condition in an emergency setting. Students will also learn the proper way to control bleeds (a common cause for shock) via procedure and tools such as bandages and tourniquets.

CTE Standards:

B1.2 – Understand the range between prevention, diagnosis, pathology, and treatment procedures

B1.4 – Illustrate the value of preventive and early intervention in relationship to health care practices

B2.3 – Recognize common disease and disorders of the human body

B2.4 – Compare normal function of the human body to the diagnosis and treatment of disease and disorders

B4.3 – Observe patient actions, interests, and behaviors while documenting responses

B4.4 – Collect and synthesize information or data about the patient's symptoms and vital signs

B4.5 – Evaluate information gathered and connect patient data to appropriate system of care

B5.0 – Know the definition, spelling, pronunciation, and use of appropriate terminology in the health care setting (includes B5.1 – B5.7)

B6.0 – Communicate procedures and goals to patients using various communication strategies to respond to questions and concerns (includes B6.1 – B6.6)

B7.0 – Apply observation techniques to detect changes in the health status of patients (includes B7.1 – B7.4)

B8.0 – Demonstrate the principles of body mechanics as they apply to the positioning, transferring, and transporting of patients (includes B8.1 – B8.2)

B9.0 – Implement wellness strategies for the prevention of injury and disease (includes B9.1 – B9.6)

Unit 8 – Airway Management, CPR, AED

Description: Students will review the respiratory system to prepare for this unit. Students will then learn the procedures used for airway management, as well as how to use equipment required for this skill, which includes operating oxygen tanks, how to prepare oxygen for patients, which airway adjunct to use, and how much oxygen to administer. Students will also learn about the indication and contraindications for using each piece of equipment. Students will also become CPR certified during this unit.

CTE Standards:

B1.2 – Understand the range between prevention, diagnosis, pathology, and treatment procedures

B1.4 – Illustrate the value of preventive and early intervention in relationship to health care practices

B2.3 – Recognize common disease and disorders of the human body

- B2.4 – Compare normal function of the human body to the diagnosis and treatment of disease and disorders
- B3.1 – Apply mathematical computations related to health care procedures (metric and household, conversions and measurements).
- B4.3 – Observe patient actions, interests, and behaviors while documenting responses
- B4.4 – Collect and synthesize information or data about the patient's symptoms and vital signs
- B4.5 – Evaluate information gathered and connect patient data to appropriate system of care
- B5.0 – Know the definition, spelling, pronunciation, and use of appropriate terminology in the health care setting (includes B5.1 – B5.7)
- B6.0 – Communicate procedures and goals to patients using various communication strategies to respond to questions and concerns (includes B6.1 – B6.6)
- B7.0 – Apply observation techniques to detect changes in the health status of patients (includes B7.1 – B7.4)
- B8.0 – Demonstrate the principles of body mechanics as they apply to the positioning, transferring, and transporting of patients (includes B8.1 – B8.2)
- B9.0 – Implement wellness strategies for the prevention of injury and disease (includes B9.1 – B9.6)

Unit 9 – Medical Emergencies

Description: Students will learn about the other common types of medical emergencies, such as psychiatric emergencies. Students will also practice their medical assessments via practice scenarios. The semester will conclude with a written and practical exam, where students must successfully address a person with a medical emergency (simulated by classmates).

CTE Standards:

- B2.3 – Recognize common disease and disorders of the human body
- B2.4 – Compare normal function of the human body to the diagnosis and treatment of disease and disorders
- B4.3 – Observe patient actions, interests, and behaviors while documenting responses
- B4.4 – Collect and synthesize information or data about the patient's symptoms and vital signs
- B4.5 – Evaluate information gathered and connect patient data to appropriate system of care
- B5.0 – Know the definition, spelling, pronunciation, and use of appropriate terminology in the health care setting (includes B5.1 – B5.7)
- B6.0 – Communicate procedures and goals to patients using various communication strategies to respond to questions and concerns (includes B6.1 – B6.6)
- B7.0 – Apply observation techniques to detect changes in the health status of patients (includes B7.1 – B7.4)
- B8.0 – Demonstrate the principles of body mechanics as they apply to the positioning, transferring, and transporting of patients (includes B8.1 – B8.2)
- B9.0 – Implement wellness strategies for the prevention of injury and disease (includes B9.1 – B9.6)

Unit 10 – Patient Assessment: Trauma

Description: Students will learn the patient assessment skill associated with injuries caused by physical trauma. The class will dissect the skill piece by piece and compare it to the medical assessment.

CTE Standards:

- B1.2 – Understand the range between prevention, diagnosis, pathology, and treatment procedures
- B2.4 – Compare normal function of the human body to the diagnosis and treatment of disease and disorders

- B4.1 – Conduct basic interview to acquire new knowledge
- B4.2 – Identify and summarize major life events as they impact health care practices and patient outcomes
- B4.3 – Observe patient actions, interests, and behaviors while documenting responses
- B4.4 – Collect and synthesize information or data about the patient’s symptoms and vital signs
- B4.5 – Evaluate information gathered and connect patient data to appropriate system of care
- B5.0 – Know the definition, spelling, pronunciation, and use of appropriate terminology in the health care setting (includes B5.1 – B5.7)
- B6.0 – Communicate procedures and goals to patients using various communication strategies to respond to questions and concerns (includes B6.1 – B6.6)
- B7.0 – Apply observation techniques to detect changes in the health status of patients (includes B7.1 – B7.4)
- B8.0 – Demonstrate the principles of body mechanics as they apply to the positioning, transferring, and transporting of patients (includes B8.1 – B8.2)

Unit 11 – Types of Injuries and Wound Care; Bandaging

Description: Students will learn the differences between closed and open wounds and how to care for them. Students will also learn how to properly prepare, disinfect, and bandage wounds (if necessary). The topic of sepsis and its relevance in the prehospital scene will also be covered here.

CTE Standards:

- B2.3 – Recognize common disease and disorders of the human body
- B2.4 – Compare normal function of the human body to the diagnosis and treatment of disease and disorders
- B4.3 – Observe patient actions, interests, and behaviors while documenting responses
- B4.4 – Collect and synthesize information or data about the patient’s symptoms and vital signs
- B4.5 – Evaluate information gathered and connect patient data to appropriate system of care
- B5.0 – Know the definition, spelling, pronunciation, and use of appropriate terminology in the health care setting (includes B5.1 – B5.7)
- B6.0 – Communicate procedures and goals to patients using various communication strategies to respond to questions and concerns (includes B6.1 – B6.6)
- B7.0 – Apply observation techniques to detect changes in the health status of patients (includes B7.1 – B7.4)
- B8.0 – Demonstrate the principles of body mechanics as they apply to the positioning, transferring, and transporting of patients (includes B8.1 – B8.2)
- B9.0 – Implement wellness strategies for the prevention of injury and disease (includes B9.1 – B9.6)

Unit 12 – Immobilization of Spine, Limbs

Description: Students will learn how to use the various devices for immobilizing the spine and limbs, as well as how to assess for abnormalities to the spine and limbs. These will include a spine/back board, a cervical collar, and spider straps for the spinal immobilization portion and various types of splints used to immobilize limbs. In addition, proper lift mechanics will be taught in this unit.

CTE Standards:

- B1.2 – Understand the range between prevention, diagnosis, pathology, and treatment procedures
- B2.4 – Compare normal function of the human body to the diagnosis and treatment of disease and disorders
- B4.1 – Conduct basic interview to acquire new knowledge

- B4.3 – Observe patient actions, interests, and behaviors while documenting responses
- B4.4 – Collect and synthesize information or data about the patient’s symptoms and vital signs
- B4.5 – Evaluate information gathered and connect patient data to appropriate system of care
- B5.0 – Know the definition, spelling, pronunciation, and use of appropriate terminology in the health care setting (includes B5.1 – B5.7)
- B6.0 – Communicate procedures and goals to patients using various communication strategies to respond to questions and concerns (includes B6.1 – B6.6)
- B7.0 – Apply observation techniques to detect changes in the health status of patients (includes B7.1 – B7.4)
- B8.0 – Demonstrate the principles of body mechanics as they apply to the positioning, transferring, and transporting of patients (includes B8.1 – B8.2)
- B9.0 – Implement wellness strategies for the prevention of injury and disease (includes B9.1 – B9.6)

Unit 13 – Extrication: Seated and Supine

Description: Students will learn what extrication is and how to safely extricate a patient. Various scenarios will be gone over here, including bathrooms and cars. Having already learned about the backboard, students will learn about a Kendrick Extrication Device (KED), used to extricate a patient via a seated position. Students will also learn how to transfer a patient using a KED into a backboard safely.

CTE Standards:

- B1.2 – Understand the range between prevention, diagnosis, pathology, and treatment procedures
- B4.2 – Identify and summarize major life events as they impact health care practices and patient outcomes
- B4.3 – Observe patient actions, interests, and behaviors while documenting responses
- B4.4 – Collect and synthesize information or data about the patient’s symptoms and vital signs
- B4.5 – Evaluate information gathered and connect patient data to appropriate system of care
- B5.0 – Know the definition, spelling, pronunciation, and use of appropriate terminology in the health care setting (includes B5.1 – B5.7)
- B6.0 – Communicate procedures and goals to patients using various communication strategies to respond to questions and concerns (includes B6.1 – B6.6)
- B7.0 – Apply observation techniques to detect changes in the health status of patients (includes B7.1 – B7.4)
- B8.0 – Demonstrate the principles of body mechanics as they apply to the positioning, transferring, and transporting of patients (includes B8.1 – B8.2)
- B9.0 – Implement wellness strategies for the prevention of injury and disease (includes B9.1 – B9.6)

Unit 14 – Environmental Emergencies

Description: Students will learn about various emergencies associated with the environment. This includes care for patients who were in fires and water.

CTE Standards:

- B2.3 – Recognize common disease and disorders of the human body
- B2.4 – Compare normal function of the human body to the diagnosis and treatment of disease and disorders
- B4.1 – Conduct basic interview to acquire new knowledge
- B4.2 – Identify and summarize major life events as they impact health care practices and patient outcomes
- B4.3 – Observe patient actions, interests, and behaviors while documenting responses

- B4.4 – Collect and synthesize information or data about the patient’s symptoms and vital signs
- B4.5 – Evaluate information gathered and connect patient data to appropriate system of care
- B5.0 – Know the definition, spelling, pronunciation, and use of appropriate terminology in the health care setting (includes B5.1 – B5.7)
- B6.0 – Communicate procedures and goals to patients using various communication strategies to respond to questions and concerns (includes B6.1 – B6.6)
- B7.0 – Apply observation techniques to detect changes in the health status of patients (includes B7.1 – B7.4)
- B8.0 – Demonstrate the principles of body mechanics as they apply to the positioning, transferring, and transporting of patients (includes B8.1 – B8.2)
- B9.0 – Implement wellness strategies for the prevention of injury and disease (includes B9.1 – B9.6)

Unit 15 – Obstetrics, Neonatal care

Description: Students will learn how to care for pregnancies. This includes emergency delivery of the child, initial care of the newborn, how to assess newborns using the APGAR scale, and what signs to look for in case of emergencies relating to pregnancies. Topics such as breach deliveries and nuchal cords will be addressed, as well as post-delivery care for the mother.

CTE Standards:

- B1.2 – Understand the range between prevention, diagnosis, pathology, and treatment procedures
- B3.1 – Apply mathematical computations related to health care procedures (metric and household, conversions and measurements).
- B3.2 – Analyze diagrams, charts, graphs, and tables to interpret health care results
- B4.1 – Conduct basic interview to acquire new knowledge
- B4.2 – Identify and summarize major life events as they impact health care practices and patient outcomes
- B4.3 – Observe patient actions, interests, and behaviors while documenting responses
- B4.4 – Collect and synthesize information or data about the patient’s symptoms and vital signs
- B4.5 – Evaluate information gathered and connect patient data to appropriate system of care
- B5.0 – Know the definition, spelling, pronunciation, and use of appropriate terminology in the health care setting (includes B5.1 – B5.7)
- B6.0 – Communicate procedures and goals to patients using various communication strategies to respond to questions and concerns (includes B6.1 – B6.6)
- B7.0 – Apply observation techniques to detect changes in the health status of patients (includes B7.1 – B7.4)
- B8.0 – Demonstrate the principles of body mechanics as they apply to the positioning, transferring, and transporting of patients (includes B8.1 – B8.2)
- B9.0 – Implement wellness strategies for the prevention of injury and disease (includes B9.1 – B9.6)

Unit 16 – Pediatrics and Geriatrics; Psychiatric Patients; Other Special Cases

Description: Students will learn about common illnesses found in pediatrics and geriatrics in emergency settings. Cases such as obesity, arthritis, and patient comfort will be discussed in this unit.

CTE Standards:

- B1.4 – Illustrate the value of preventive and early intervention in relationship to health care practices
- B2.3 – Recognize common disease and disorders of the human body

- B2.4 – Compare normal function of the human body to the diagnosis and treatment of disease and disorders
- B4.1 – Conduct basic interview to acquire new knowledge
- B4.2 – Identify and summarize major life events as they impact health care practices and patient outcomes
- B4.3 – Observe patient actions, interests, and behaviors while documenting responses
- B4.4 – Collect and synthesize information or data about the patient’s symptoms and vital signs
- B4.5 – Evaluate information gathered and connect patient data to appropriate system of care
- B5.0 – Know the definition, spelling, pronunciation, and use of appropriate terminology in the health care setting (includes B5.1 – B5.7)
- B6.0 – Communicate procedures and goals to patients using various communication strategies to respond to questions and concerns (includes B6.1 – B6.6)
- B7.0 – Apply observation techniques to detect changes in the health status of patients (includes B7.1 – B7.4)
- B8.0 – Demonstrate the principles of body mechanics as they apply to the positioning, transferring, and transporting of patients (includes B8.1 – B8.2)
- B9.0 – Implement wellness strategies for the prevention of injury and disease (includes B9.1 – B9.6)

Unit 17 – Mass Casualty Incidents

Description: Students will learn about the triage system and the use of triage tags. Students will take turns performing triage and learning how to categorize patients as “minor, delayed, immediate, or deceased.” The chain of command in a mass casualty incident will also be discussed.

CTE Standards:

- B1.1 – Know relationship and use of an integrated health care delivery system
- B2.4 – Compare normal function of the human body to the diagnosis and treatment of
- B3.2 – Analyze diagrams, charts, graphs, and tables to interpret health care results
- B4.1 – Conduct basic interview to acquire new knowledge
- B4.2 – Identify and summarize major life events as they impact health care practices and patient outcomes
- B4.3 – Observe patient actions, interests, and behaviors while documenting responses
- B4.4 – Collect and synthesize information or data about the patient’s symptoms and vital signs
- B4.5 – Evaluate information gathered and connect patient data to appropriate system of care
- B5.0 – Know the definition, spelling, pronunciation, and use of appropriate terminology in the health care setting (includes B5.1 – B5.7)
- B6.0 – Communicate procedures and goals to patients using various communication strategies to respond to questions and concerns (includes B6.1 – B6.6)
- B7.0 – Apply observation techniques to detect changes in the health status of patients (includes B7.1 – B7.4)
- B8.0 – Demonstrate the principles of body mechanics as they apply to the positioning, transferring, and transporting of patients (includes B8.1 – B8.2)
- B12.0 – Adhere to the roles and responsibilities, within the scope of practice, that contribute to the design and implementation of treatment planning (includes B12.1 – B12.4)

Unit 18 – Putting Everything Together

Description: This unit will put everything together in the form of cumulative practice scenarios. In teams, students will work together to dissect each scenario, discussing with each other how to address each case using everything they have learned during the course. The major topic will be that “one must never rule out

the possibility of other causes.” Example, if the person has a head injury, one cannot rule out the possibility of an underlying medical emergency being the cause of the injury.

CTE Standards:

- B2.3 – Recognize common disease and disorders of the human body
- B2.4 – Compare normal function of the human body to the diagnosis and treatment of disease and disorders
- B3.1 – Apply mathematical computations related to health care procedures (metric and household, conversions and measurements).
- B3.2 – Analyze diagrams, charts, graphs, and tables to interpret health care results
- B4.1 – Conduct basic interview to acquire new knowledge
- B4.2 – Identify and summarize major life events as they impact health care practices and patient outcomes
- B4.3 – Observe patient actions, interests, and behaviors while documenting responses
- B4.4 – Collect and synthesize information or data about the patient’s symptoms and vital signs
- B4.5 – Evaluate information gathered and connect patient data to appropriate system of care
- B5.0 – Know the definition, spelling, pronunciation, and use of appropriate terminology in the health care setting (includes B5.1 – B5.7)
- B6.0 – Communicate procedures and goals to patients using various communication strategies to respond to questions and concerns (includes B6.1 – B6.6)
- B7.0 – Apply observation techniques to detect changes in the health status of patients (includes B7.1 – B7.4)
- B8.0 – Demonstrate the principles of body mechanics as they apply to the positioning, transferring, and transporting of patients (includes B8.1 – B8.2)
- B9.0 – Implement wellness strategies for the prevention of injury and disease (includes B9.1 – B9.6)

21. Instructional Materials:

Board approved required text:

Emergency Care and Transportation of the Sick and Injured, 11 edition, 2016

Supplementary materials:

- CPR/First Aid Certification Instructional materials
- Anatomy in Clay skeletons
- AED training units
- Stethoscopes

22. Instructional Methods and/or Strategies

The course will offer a combination of lecture and hands-on application. Students will also be required to complete a total of 24 Clinical Hours that they must complete after-school or on weekends.

Clinical Hours: Students will be required to complete a total of 24 Clinical Hours. This can be done through partners including the Fire Department, FACES for the Future Internships and/or by volunteering as an AHS Student Athletic Training Aide. Other clinical placements can be arranged with the permission/assistance of the teacher. All clinical hours must be signed off by the medical professional who you volunteer with.

Sample clinical hours are as follows:

1. Complete a ride along with Fire Department and volunteer to work with athletic trainer at AHS school sporting event
2. Complete a ride along with Fire Department and be in the FACES internship program

23. Assessment and Evaluation

NREMT Skills Test (All students are required to pass each of the following ten “skills tests” to earn a passing grade in the course):

1. Bleeding Control
2. Patient Assessment – Medical
3. Patient Assessment – Trauma
4. Supine Immobilization
5. Seated Immobilization
6. BVM ventilation
7. Oxygen Administration
8. CPR/AED use
9. Joint Immobilization
10. Long Bone Immobilization

Unit Tests:

Students will be tested on class material at the end of each 1-2 units. Tests can include multiple choice, true/false, and short answer questions. Finals are weighted the same as tests, but cover all the material from that semester.

Quizzes:

Quizzes and Practical quizzes will be given frequently to check student comprehension and assess areas needing further instruction. Quizzes are true/false and multiple choice.

Journals:

Journals will be assigned on various topics including fieldwork experience throughout the year.

24. Grading Policy

SECTION C. OPTIONAL INFORMATION

Context for offering the course:

AUSD is seeking to update this Career Technical Education course in order to incorporate more rigorous and comprehensive skills training that will enable students to be prepared to take the NREMT Emergency Medical

Technicians (EMT) certification exam. Note: The NREMT Certification Exam is optional and students must be 18 years old to take the exam.

25. History of Course Description: