College of San Mateo  
Official Course Outline

1. **COURSE ID:** FIRE 796  
   **TITLE:** Emergency Medical Technician: Basic  
   **Units:** 10.0 units  
   **Hours/Semester:** 144.0-162.0 Lecture hours; and 48.0-54.0 Lab hours  
   **Method of Grading:** P/NP Only  
   **Prerequisite:** Current certification in health care provider/professional rescuer CPR (Cardiopulmonary Resuscitation) through an accredited agency. **Corequisite:** Vaccinations for healthcare workers per California Code of Regulations, Title 8, Section 5199 Aerosol Transmissible Diseases; Appendix E. Plus, additional vaccinations as listed on the list provided to EMT students.

2. **COURSE DESIGNATION:**  
   Degree Credit  
   **Transfer credit:** CSU

3. **COURSE DESCRIPTIONS:**  
   **Catalog Description:**  
   This course provides instruction in basic life support/pre-hospital care using the National Registry curriculum. A materials fee as shown in the Schedule of Classes is payable upon registration.

4. **STUDENT LEARNING OUTCOME(S) (SLO’S):**  
   Upon successful completion of this course, a student will meet the following outcomes:  
   1. Recognize the nature and seriousness of the patient's condition or extent of injuries to assess requirements for emergency medical care;  
   2. Administer appropriate emergency medical care based on assessment findings of the patient's condition;  
   3. Employ the proper methods to lift, move, position and otherwise handle the patient to minimize discomfort and prevent further injury; and,  
   4. Perform safely and effectively the expectations of the job description.

5. **SPECIFIC INSTRUCTIONAL OBJECTIVES:**  
   Upon successful completion of this course, a student will be able to:  
   1. Recognize the nature and seriousness of the patient's condition or extent of injuries to assess requirements for emergency medical care;  
   2. Administer appropriate emergency medical care based on assessment findings of the patient's condition;  
   3. Employ the proper methods to lift, move, position and otherwise handle the patient to minimize discomfort and prevent further injury; and,  
   4. Perform safely and effectively the expectations of the job description.

6. **COURSE CONTENT:**  
   **Lecture Content:**  
   1. Preparatory  
   2. Public Health  
      A. Emergency Medical Care Systems, Research, and Public Health  
      B. Workforce Safety and Wellness of the EMT  
      C. Medical, Legal and Ethical Issues  
      D. Documentation  
      E. Communication  
      F. Lifting and Moving Patients  
   3. Anatomy, Physiology and Medical Terminology  
      A. Anatomy  
      B. Physiology  
      C. Medical Terminology  
   4. Pathophysiology  
      A. Pathophysiology  
   5. Life Span Development  
      A. Life Span Development  
   6. Airway Management, Respiration and Artificial Ventilation  
      A. Airway Management  
      B. Artificial Ventilation
C. Oxygenation

7. Assessment
   A. Baseline Vital Signs, Monitoring Devices and History Taking
   B. Scene Size-Up
   C. Patient Assessment

8. Pharmacology
   A. Pharmacology
   B. Medication Administration

9. Shock and Resuscitation
   A. Shock
   B. Resuscitation

10. Medicine
    A. Respiratory Emergencies
    B. Cardiovascular Emergencies
    C. Altered Mental Status, Stroke and Headache
    D. Seizures and Syncope
    E. Acute Diabetic Emergencies
    F. Anaphylactic Reactions
    G. Toxicologic Emergencies
    H. Abdominal, Gynecologic, Genitourinary and Renal Emergencies
    I. Environmental Emergencies
    J. Submersion Incidents: Drowning and Diving Emergencies
    K. Behavioral Emergencies

11. Trauma
    A. Trauma Overview: The Trauma Patient and the Trauma System
    B. Bleeding and Soft Tissue Trauma
    C. Burns
    D. Musculoskeletal Trauma
    E. Head Trauma
    F. Spinal Column and Spinal Cord Trauma
    G. Eye, Face and Neck Trauma
    H. Chest Trauma
    I. Abdominal and Genitourinary Trauma
    J. Multisystem Trauma and Trauma in Special Patient Populations

12. Special Patient Populations
    A. Obstetrics and Care of the Newborn
    B. Pediatrics
    C. Geriatrics
    D. Patients with Special Challenges

13. EMS Operations
    A. Ambulance Operations and Air Medical Response
    B. Gaining Access and Patient Extrication
    C. Hazardous Materials
    D. Multiple-Casualty Incidents and Incident Management
    E. EMS Response to Terrorism Involving Weapons of Mass Destruction
    F. ALS-Assist Skills
    G. Advanced Airway Management

Lab Content:
1. Cardiac Arrest Management/AED
2. Airway, Oxygen and Ventilation Skills
   A. Upper Airway Adjuncts and Suction
   B. Bag-Valve-Mask (Apneic Patient)
   C. Mouth to Mask w/Supplemental Oxygen
   D. Oxygen Administration
3. Bleeding Control/Shock Management
4. Spinal Immobilization (Seated Patient)
5. Emergency Childbirth
6. EMT Patient Assessment/Management
   A. Medical
   B. Trauma
7. Immobilization Skills
   A. Long Bone Injury
   B. Traction Splinting

7. REPRESENTATIVE METHODS OF INSTRUCTION:
Typical methods of instruction may include:
   A. Lecture
   B. Discussion
   C. Observation and Demonstration
   D. Other (Specify): 1. Critical Thinking: Lecture/discussion/examples will be used to develop an understanding of required knowledge/skills, and how they relate to the performance of an EMT-B. 2. Skills Practice: After a demonstration by the instructor(s), students will be given time during class to practice the skills required for each module. 3. Multimedia: PowerPoint presentation to review for National Registry examination.

8. REPRESENTATIVE ASSIGNMENTS
Representative assignments in this course may include, but are not limited to the following:

Writing Assignments:
   Written Assignments: Students turn in descriptions of patient contacts from the ridealongs. Forms used will be similar to those used for report write-ups in the field. Additional assignments may be assigned as needed to support learning and skill development.

Reading Assignments:
   Students will be expected to read the text materials pertaining to the next lecture prior to that class session.

Other Outside Assignments:
   Students will be required to accomplish a minimum of 5 patient contacts during scheduled ride-alongs. A minimum of 10 hours of ride-alongs is required.

9. REPRESENTATIVE METHODS OF EVALUATION
Representative methods of evaluation may include:
   A. Final Class Performance
   B. Quizzes
   C. Written examination
   D. 1. Quizzes: Measures comprehension of each topic after it is covered, giving the student an idea of their strengths/weaknesses. 2. Mid-term Exams: Measures comprehension of topics covered to that point. Allows student to evaluate probability of successful completion. 3. Final Examination: Measures comprehension of the topics covered in the course. All quizzes and exams will be used to determine eligibility for the National Registry Exam. 4. Skills Testing: As required by the National Registry, to determine the level of competency/proficiency of skills required of EMT-B for pre-hospital care.

10. REPRESENTATIVE TEXT(S):
Possible textbooks include:

Other:
   A. Supplemental handouts for topics and skills developed by the instructor

Origination Date: September 2014
Curriculum Committee Approval Date: October 2014
Effective Term: Fall 2016
Course Originator: Michelle Schneider