

**Crafton Hills College
Course Outline**

1. Discipline: Emergency Medical Services
2. Department: Emergency Medical Services
3. Course Title: Emergency Department Technician
4. Course I.D.: **EMS 030**
5. Prerequisite(s): None
6. Corequisite(s): FIRET 077
7. Departmental Recommendation(s): None
6. Semester Units: 4.25
7. Minimum Semester Hours:

Lecture: 44 Lab: 44 Clinic: 40 Field: 0

8. Need for the Course:

This course is not provided by any other institution in the Inland Empire and is only offered at one other school in the State. This course gives the necessary training to work in an emergency department or an urgent care center. Most emergency rooms in Southern California hire technicians to work in the emergency room. It affords students exposure to emergency medicine at an entry level and provides experience which is beneficial in the pursuit of any higher level of education in medicine. This course is degree applicable.

9. Goals for the course:

The goals for this course are to:

- A. Provide competent entry level emergency medical care providers for the hospital or urgent care setting.
- B. Prepare emergency department technicians with an excellent work ethic.
- C. Provide entry level experience for those students who wish to enter the medical field.
- D. Fulfill the mission of the college to offer viable vocational courses.
- E. Provide entry level experience to students wishing to advance in other medical careers.

EMS 030

Page 1 of 7

Curriculum Mtg. 9/25/2000

Board Approved: 10/12/2000

10. Catalog Description:
Instructions in all facets of basic life support measures, CPR, and the use of appropriate clinical emergency equipment and supplies. Stresses hands on skills proficiency in assisting the physician with suturing, sterile set-up of trays, application of plaster and other types of splints. Includes confidentiality, professionalism, including a good work ethic. Introduces emergency equipment used in pre-hospital care and how it impacts care in the emergency department.

11. Entrance Skills:

None A. Requisite Skills:

Yes B. Recommended Skills:

It is highly recommended that students be able to:

- A. Manipulate simple and complex equipment.
- B. Lift heavy objects from awkward positions and places.
- C. Push, bend and pull heavy objects.

12. Course Objectives:

Upon completion of the course, students will be able to:

- 1. Correctly spell and define medical terms given by the instructor.
- 2. Identify area of employment in emergency care.
- 3. List five characteristics of a good emergency department technician.
- 4. Identify three areas of responsibility for the emergency department technician.
- 5. Discuss the concept of the healthcare team.
- 6. Discuss the role of the Emergency Medical Services.
- 7. List thirteen essential components of an EMS system.
- 8. Identify equipment commonly found in the emergency care unit.
- 9. Identify the conditions that promote the growth of microorganisms.
- 10. Describe the chain of infections
- 11. List three methods of preventing infections.
- 12. Demonstrate proper hand-washing technique.
- 13. Demonstrate the proper method for putting on sterile gloves.
- 14. Demonstrate the proper method for removing contaminated gloves.
- 15. List three reasons for maintaining accurate medical records.
- 16. Explain the principle of patient confidentiality.
- 17. Triage a group of imaginary patients.
- 18. Perform a primary and secondary survey.
- 19. Perform a pupil check.
- 20. Measure height and weight on adult and pediatric patients.

21. Obtain blood pressure, pulse, respiration and temperature readings and document them on the patient record.
22. List the duties to perform during a fire in the emergency department.
23. List the signs and symptoms of infectious disease in an emergency patient.
24. Outline a disaster plan for an emergency department.
25. Recognize the signs of cardiac or respiratory arrest.
26. Perform CPR on an infant manikin.
27. Perform CPR on a child manikin.
28. Perform one-rescuer and two-rescuer CPR on an adult manikin.
29. Perform obstructed airway maneuvers on infant, child and adult manikins.
30. List the items found on the emergency department "crash cart."
31. Perform a visual acuity exam using the Snellen eye chart.
32. Apply an eye dressing to a simulated patient.
33. Assemble the equipment necessary for an ear lavage.
34. Set up the equipment necessary to assist the physician with an ENT exam.
35. Place the leads for cardiac monitoring.
36. Position an unconscious patient on a gurney.
37. List five signs or symptoms of hypoglycemia.
38. Obtain a sputum specimen.
39. Identify three safety measures for a patient having a seizure.
40. Recognize the signs/symptoms of an acute abdominal problem.
41. Perform a urinary catheterization.
42. Obtain a urine specimen, clean catch and midstream.
43. Assist the nurse with the placement of a gastric tube.
44. Assist the physician with a pelvic examination.
45. Manage specimens for cultures.
46. Care for a victim of sexual assault.
47. Assist with an emergency childbirth.
48. Care for a newborn.
49. Identify five types of wounds.
50. Control bleeding.
51. Describe the treatment for a wound created by a foreign body.
52. Care for a patient with an animal bite.
53. Prepare a patient for suturing.
54. Remove sutures and staples.
55. Apply dressings and bandages to wounds.
56. Establish priorities of care in severely traumatized patients.
57. Recognize the signs and symptoms of shock.
58. Care for a comatose patient.
59. Care for a patient who has been admitted with an antishock suit in place.

60. Care for a patient with a head injury.
61. Care for a patient with a spinal cord injury.
62. Assist with the care of a multi-system trauma patient.
63. Care for a patient with a fracture.
64. Assist the physician with the application of a cast.
65. Apply an ace bandage.
66. Measure and fit a patient for crutches.
67. Demonstrate the ability to instruct a patient in proper crutch walking techniques.
68. Use proper body mechanics when lifting objects or patients.
69. Assist a patient from a car to a wheelchair and from a wheelchair into a car.
70. Safely transport patient from the ER by gurney.
71. Name and describe patient positions for certain treatments.
72. List three types of heat-related emergencies.
73. Care for a burn injury.
74. Apply a burn dressing.
75. Discuss the importance of knowing the number to Poison Control Center.
76. List the routes by which poisons can enter the body.
77. Correctly position an unconscious patient to protect the airway.
78. Discuss normal reactions to stress brought on by illness or injury.
79. Demonstrate the ability to communicate effectively with emotionally disturbed patients.
80. Identify the normal range of vital signs for the pediatric patient.
81. Assist the physician with procedures performed on children.
82. Demonstrate the proper way to hold an infant.
83. Demonstrate the use of a papoose board and mummy wrap.
84. Identify the potentials for injury when caring for the elderly.
85. Discuss how aging affects the body systems.
86. Be a role model for patient confidentiality
87. Advocate the need to show respect for the rights and feelings of patients
88. Defend the need to treat every individual with dignity and respect
89. Value the need to serve as the patient advocate including those with special needs, alternative life styles and cultural diversity.

13. Representative Texts and Instructional Materials

O'Brien, Marianne, **The Emergency Department Technician**, Career Publishing, Orange CA.

O'Keefe, Michael F. et al, **Emergency Care**, Brady Prentice Hall, New Jersey

14. Course Content:
- A. Health Careers in Emergency Care
 - B. Overview of Emergency Medical Services
 - C. The Working Environment of the Emergency Department
 - 1. Admission and Triage
 - 2. Physical Layout
 - D. Asepsis
 - 1. Chain of Infection
 - 2. Medical and Surgical Asepsis
 - 3. Use of Sterile Gloves
 - 4. Care of Equipment and Supplies
 - 5. Controlling Communicable Diseases
 - E. Admitting Procedures
 - 1. Documentation
 - 2. Triage
 - 3. Computers
 - 4. Patient Confidentiality
 - 5. Refusal of Treatment
 - F. Patient Evaluation
 - 1. Observational Skills
 - 2. Primary and Secondary Survey
 - 3. Vital Signs
 - 4. Pulse, Respirations, Temperature, Blood Pressure
 - 5. Neurological Check
 - 6. Obtaining Height and Weight
 - G. Safety in the Emergency Department
 - 1. Fire and Disaster
 - 2. Personal Safety
 - 3. Transportation of Patients
 - 4. Safety and Defibrillation
 - H. Basic Life Support
 - 1. CPR for Healthcare Providers, American Heart Association standards
 - I. Emergencies of the Eye, Ear, Nose and Throat
 - J. Medical Emergencies
 - 1. Diabetes
 - 2. Seizures
 - 3. Respiratory and Cardiac
 - 4. Neurological
 - K. Abdominal Emergencies
 - 1. Obtaining urine specimen
 - 2. Abdominal Trauma
 - 3. Urinary Catheterization
 - 4. Preparing a Patient for Surgery

- L. Emergencies of the Reproductive System
 - 1. Emergency Childbirth
 - 2. Care of the Newborn
 - 3. Vaginal Bleeding
 - 4. Pelvic Examinations
- M. Wound Care
 - 1. Control of bleeding
 - 2. Bandaging and Dressing of Wounds
 - 3. Suture and Staple Removal
- N. Traumatic Emergencies
 - 1. Trauma Centers
 - 2. Shock
 - 3. Head Injuries
 - 4. Spinal Cord Injuries
 - 5. Chest Trauma
- O. Bone and Joint Injuries
 - 1. Fractures
 - 2. Dislocations
 - 3. Splints
 - 4. Pressure Bandages
 - 5. Crutch Fitting
 - 6. Crutch Walking Teaching
 - 7. Canes
- P. Moving and Positioning Patients
 - 1. Wheel Chairs
 - 2. Gurneys
 - 3. Body Mechanics
 - 4. Patient Positioning
- Q. Environmental Emergencies
 - 1. Heat Emergencies
 - 2. Burns
 - 3. Cold Emergencies
- R. Poisoning and Overdose
 - 1. Prevention
 - 2. Care of the overdose or poisoned patient
 - 3. Care of the unconscious patient
- S. Emotional and Behavioral Emergencies
 - 1. Stress
 - 2. Confusion and Emotional Shock
 - 3. Fear
 - 4. Denial
 - 5. Regression
 - 6. Depression
 - 7. Anger

- 8.Communication, verbal and non-verbal
- 9.Suicidal Patients
- 10.Personal Stress Management
- T. Caring for Children
 - 1.Interacting with children
 - 2.Pediatric vital signs
 - 3.Safety Measures
 - 4.Collecting Specimens
 - 5.Common Pediatric Illnesses
 - 6.Common Pediatric Injuries
 - 7.Child Abuse
 - 8.Sudden Infant Death Syndrome
- U. Care of the Elderly
 - 1.Effects of Aging on Body Systems
 - 2.Caring for the Elderly Patient
- V. Multicultural Event

15. Methods of Instruction:

- Lecture
- Video
- Oral Presentations
- Group Discussion
- Skills Laboratory
- Library Tour

16. Assignments and Methods of Evaluation:

- Weekly home work assignments (5-10% of grade)
- Complete exercises at the end of each chapter in the text.
- Weekly quizzes (10-15% of grade)
- One Article Summary on Job Interview Skills (5% of grade)
- One Concept Outline on Guest Relations (5% of grade)
- One 1-2 page essay on a given topic (5-10% of grade)
- Personal Resume (5% of grade)
- Multicultural Event (15-20% of grade)
- Written Final Examination (40% of grade)