

BUTTE COLLEGE

COURSE OUTLINE

I. CATALOG DESCRIPTION

EMS 170 - Paramedic-Theory

21 Unit(s)

Prerequisite(s): Admission to the Paramedic Program

Recommended Prep: NONE

Transfer Status: NT

306 hours Lecture

153 hours Lab

This course is the first of a two-semester long program that provides the Paramedic student the didactic information and skills required to meet the state of California requirements for paramedic training. The course meets accreditation requirements of the Committee on Accreditation of Educational Programs for the EMS Professions (CoAEMSP). The course follows U.S. Department of Transportation Paramedic National Standard Curriculum. Upon successful completion of EMS 170 and EMS 171 the student will be eligible to take the National Registry Exam required for licensure as a Paramedic in the state of California. Graded only.

II. OBJECTIVES

Upon successful completion of this course, the student will be able to:

- A. Apply, analyze, and evaluate information relevant to their role as entry level Paramedics.
- B. Demonstrate technical proficiency in all skills necessary to fulfill the role of entry level Paramedics.
- C. Demonstrate personal behavior consistent with professional and employer expectations for the entry level Paramedic.

III. COURSE CONTENT

A. Unit Titles/Suggested Time Schedule

	Lecture	
<u>Topics</u>		<u>Hours</u>
1. Workforce Safety and Wellness		2.00
2. Emergency Medical Systems		3.00
3. Medical Legal Considerations		5.00
4. Emergency Medical Services Communications		1.00
5. Terrorism and Disaster Response		4.00
6. Stress Management		1.00
7. Medical Terminology		4.00
8. General Patient Assessment and Initial Management		22.00
9. Airway and Ventilation		10.00
10. Pathophysiology		12.00
11. General Pharmacology		24.00
12. Soft Tissue Injuries		4.00
13. Musculoskeletal Injuries		4.00
14. Chest Trauma		9.00
15. Abdominal Trauma		4.00

16. Head and Spinal Cord Trauma	5.50
17. Bleeding	1.00
18. Burns	2.00
19. Respiratory System and Emergencies	12.00
20. Cardiovascular System and Emergencies	45.00
21. Endocrine Emergencies	3.00
22. Nervous System and Emergencies	8.00
23. Acute Abdomen, Genitourinary, and Reproductive System Emergencies	4.00
24. Anaphylaxis	2.00
25. Toxicology, Alcoholism and Drug Abuse	3.00
26. Infectious Diseases	2.00
27. Environmental Injuries	4.00
28. Pediatric	15.00
29. Obstetrical, Gynecological, Neonatal Emergencies	9.00
30. Behavioral Health Management	4.00
31. Assault Victims	1.00
32. Geriatric Patients	3.00
33. Patients with Special Challenges	1.00
34. Public Health	1.00
35. Anatomy and Physiology Review	14.00
36. Lifespan Development	3.50
37. Pharmacology -EMS Formulary	10.00
38. Trauma Systems/Mechanism of Injury	2.00
39. Ear, Eye, Nose, Throat Conditions	1.00
40. Immunologic/Hematologic Conditions	1.00
41. Face/Neck Trauma	1.00
42. Shock/Resuscitation of the critical patient	1.50
43. Multi-Casualty Incident Management	2.00
44. Transport/Operations Considerations	2.00
45. Crime Scene Management	1.50
46. Advanced Cardiac Life Support Certification Course, American Heart Association	16.00
47. Pediatric Advanced Life Support Certification Course, American Heart Association	16.00
Total Hours	306.00

Lab

<u>Topics</u>	<u>Hours</u>
1. Emergency Medical Communications	7.00
2. Scene and Equipment Management	11.00
3. Major Incident Response	2.00
4. General Patient Assessment and Initial Management	6.00
5. Airway and Ventilation	11.00

6. Medication Administration	4.00
7. Musculoskeletal Injuries	1.50
8. Chest Trauma	1.00
9. Abdominal Trauma	1.00
10. Head and Spinal Cord Trauma	4.50
11. Multisystem Injuries	1.00
12. Burns	1.00
13. Cardiovascular System and Emergencies	22.00
14. Endocrine Emergencies	1.00
15. Acute Abdomen, Genitourinary, and Reproductive System Emergencies	1.00
16. Pediatric Assessment and Treatment	8.00
17. Behavioral Health Management	6.00
18. Adult Assessment and Treatment	8.00
19. Geriatric Assessment and Treatment	8.00
20. ACLS Advanced Cardiac Life Support	16.00
21. PALS Pediatric Advanced Life Support	16.00
22. PHTLS Pre-Hospital Trauma Life Support	16.00
Total Hours	153.00

IV. METHODS OF INSTRUCTION

- A. Lecture
- B. Group Discussions
- C. Homework: Students are required to complete two hours of outside-of-class homework for each hour of lecture
- D. Demonstrations
- E. Skill practice
- F. Simulation

V. METHODS OF EVALUATION

- A. Quizzes
- B. Written midterm exams and final comprehensive exams
- C. Periodic and final skills exams
- D. Professional behavior evaluations

VI. EXAMPLES OF ASSIGNMENTS

- A. Reading Assignments
 - 1. Review a current peer reviewed article regarding Ebola and be prepared to discuss it in class.
 - 2. Read the chapter regarding cardiovascular emergencies and be prepared to discuss the importance of early citizen CPR and advanced life support intervention.
- B. Writing Assignments
 - 1. Write a Patient Care Report (PCR) on a trauma simulation.
 - 2. Construct the correct written procedure for ventricular fibrillation.
- C. Out-of-Class Assignments
 - 1. Research a topic about common prehospital errors and give a presentation to the class.
 - 2. Research recent policy for transporting a suspected Ebola patient on the Sierra-Sacramento Valley website and be prepared to discuss at the next class meeting.

VII. RECOMMENDED MATERIALS OF INSTRUCTION

Textbooks:

- A. American Heart Association. Advanced Cardiac Life Support Provider Manual. American Heart Association, 2011.
- B. Lawner, B. et al. Avoiding Common Prehospital Errors. 1st Edition. Lippincott, 2012.
- C. Walraven, G. Basic Arrhythmias. 7th Edition. Pearson, 2010.
- D. Caroline, N. Emergency Care in the Streets. 7th Edition. Jones and Bartlett, 2012.
- E. Caroline, N. Emergency Care in the Streets Student Workbook. 7th Edition. Jones and Bartlett, 2012.
- F. Schafer, et al. Paramedic Skills Manual. 2015 Edition. Butte College, 2015.
- G. American Heart Association. Pediatric Advanced Life Support provider Manual. American Heart Association, 2011.

Materials Other Than Textbooks:

- A. Designated uniform, Picture ID badge, Health Exam, Vaccines or titers, background check and drug screen prior to EMS 171.
- B. Butte College Paramedic Program Drug Handbook purchased at bookstore
- C. Prehospital training equipment and supplies provided by Butte Community College
- D. Functional watch

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