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Health Education (HLED) 1602 Paramedic, Acute Clinical Laboratory and Field Experience (13.5 Units)  
CSU

Prerequisite: Completion of HLED 1601 with grade “C” or better.

Co-Requisite: None

Advisory: Eligibility for ENGL 1500 or 1501, completion of BIOL 2258, and MATH 0240 are strongly recommended.

Hours and Units Calculations:

162 lab hours (Acute Clinical Lab). 486 lab hours (Field Experience) 648 Total Student Learning Hours.  
(13.5 Units)

Catalog Description: This course occurs in the acute care hospital setting in a precepted format. It is the hands-on application of theory and skills in a hospital setting to a wide variety of sick and injured clients. This course is part of a program of study to prepare paramedics as described in California Code of Regulations, Title 22, Division 9, Chapter 4 and lists the required hours and subjects to be covered as set forth by the Department of Transportation curriculum.

Type of Class/Course: Degree Credit

Text: Caroline, Nancy L., *Emergency Care in the Streets*, 12<sup>th</sup> ed., Volume 1 & 2, American Academy of Orthopaedic Surgeons (AAOS), 2021

Course Objectives:

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

1. Perform a thorough client examination including health history, appropriate inquiry and inspection pertinent to the client's chief complaint.
2. Develop and implement an appropriate plan of action for client care.
3. Demonstrate basic level psychomotor skills in IV insertion, medication administration, and wound care.
4. Use universal precautions and wear appropriate personal protective equipment specific for any client interaction.
5. Recognize the need for and request additional assistance or equipment needed from the hospital staff in a timely manner.
6. Obtain a relevant and accurate client history, chief complaint, medications, and allergies in systematic and timely manner.
7. Identify breath sounds and have adequate knowledge of chest auscultation.
8. Identify cardiac rhythms in an accurate and timely manner.
9. Develop and implement an appropriate plan of action.
10. Build rapport with client, family and staff and function as a member of the client care team.

11. Complete client care documentation in an accurate, thorough, and legible manner adhering to hospital requirements.
12. Use all equipment in a safe and correct manner.
13. Assure the adequate delivery of oxygen to client, including use of appropriate airway adjunct and achieving or maintaining patency of airway in a timely manner.
14. Exhibit the knowledge and skill necessary for the use of pharmacological intervention of the sick and injured client.
15. Establish an intravenous infusion with proper technique and in a timely manner.
16. Demonstrate the respect for, and the dignity of, each individual in the practice of professional duties.
17. List the psychosocial implications that medical emergencies can have on a client and discuss ways to assess and properly intervene to produce positive client outcomes.
18. Given several scenarios, evaluate the clients and provide appropriate assessments, treatment and transport of clients involved in environmental emergencies.
19. Evaluate the epidemiology, preventive strategies, pathophysiology, assessment findings and management of emergent neurological problems.
20. Given several scenarios involving endocrine emergency clients, plan for the appropriate management and care of the client.
21. Diagram the pathophysiological principles of an infectious process. Given several scenarios of clients with pulmonary problems, formulate a detailed assessment, systematic care, and appropriate transport.
22. Compare and contrast the pathophysiological, assessment, and management strategies of clients with gynecological emergencies.
23. Given several scenarios of poisoning and overdose, evaluate the clients and provide appropriate assessments, treatment and transport.
24. Discuss the causative agent, body systems affected and potential secondary complications, routes of transmission, susceptibility and resistance, signs and symptoms, client management and protective measures for medical emergencies.
25. Discuss the pathophysiology, assessment findings, need for rapid intervention and transport, and management of medical emergencies.
26. Distinguish between the signs and symptoms of emergent and non-emergent gastroenterological problems.
27. Complete 40 logged advanced life support calls in the field

#### Student Learning Outcomes:

- Create documentation of the findings of a thorough client examination including health history, appropriate inquiry, and inspection pertinent to the client's chief complaint.
- Create an appropriate medical care plan for individual patient treatment.
- Assess accurate client history, chief complaint, medications, and allergies in a systematic and timely manner.
- Demonstrate skills necessary for the use of pharmacological intervention of the sick and injured client.
- Assess medical patients to determine the pathophysiology, assessment findings, need for rapid intervention and transport, and management of medical emergencies.
- Assess traumatic patients to determine pathophysiology, assessment findings, need for rapid intervention and transport, and management of traumatic emergencies.
- Organize evaluative and medical care efforts and actions at emergency scenes.
- Perform appropriate and timely medical care in the emergency scene environment.

## Course Scope and Content:

### Acute Clinical Laboratory

#### Unit I. Assessment and Treatment of Patients in a Client Setting

- A. Care of Clients with Cardiovascular Problems
- B. Care of Clients with Endocrine Problems
- C. Care of Clients with Allergies and Anaphylaxis
- D. Care of Clients with Gastroenterology Problems
- E. Care of Clients with Urologic and Nephrology Problems
- F. Care of Clients with Substance Abuse Problems
- G. Care of Clients with Hematologic Problems
- H. Care of Clients with Neurologic Problems
- I. Care of Clients in Environmental Emergencies
- J. Care of Clients with Infectious Diseases
- K. Care of Clients with Psychiatric and Behavioral Emergencies

### Field Experience

#### Unit II. Assessment and Treatment of Patients in the Field

- A. Appropriate Management of Clients in the Field.
- B. Field Assessment of Trauma, Medical, Obstetrical and Pediatric Clients
- C. Airway Adjuncts
- D. Cardiopulmonary Resuscitation
- E. Cardioversion, Defibrillation and Pacing
- F. Spinal Immobilization
- G. Bandaging, Splinting, and Traction
- H. Needle Thoracostomy
- I. Childbirth
- J. Burns
- K. Shock Recognition and Management
- L. Documentation
- M. Leadership
- N. Teamwork

All laboratory components are hands-on activities that support the learning goals of this course. Utilizing principles presented in lecture, students will perform several techniques utilized by Paramedics.

#### Learning Activities Required Outside of Class:

None

#### Methods of Instruction:

1. Hands on Skills

#### Methods of Evaluation:

1. The course primarily involves skill demonstrations and problem solving
  - a. Computational or non-computational problem-solving demonstrations including exams, quizzes and field work
  - b. Skill demonstrations, including class performance(s), field work, and skills performance exam(s)

c. Objective examinations, including multiple choice, and true/false

Supplemental Data:

TOP Code:	125100: Paramedics
SAM Priority Code:	C: Clearly Occupational
Distance Education:	Not Applicable
Funding Agency:	Y: Not Applicable(funds not used)
Program Status:	1: Program Applicable
Noncredit Category:	Y: Not Applicable, Credit Course
Special Class Status:	N: Course is not a special class
Basic Skills Status:	N: Course is not a basic skills course
Prior to College Level:	Y: Not applicable
Cooperative Work Experience:	N: Is not part of a cooperative work experience education program
Eligible for Credit by Exam:	Yes

Eligible for Pass/No Pass:	Yes
Taft College General Education:	NONE
Discipline:	Emergency Medical Technologies