

# Paramedic

Degree: A.S. - Paramedic  
Certificate: Paramedic

Area: Health & Education  
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Paramedicine is a specialty whose practitioners respond to emergencies before a patient reaches a hospital, rendering basic and advanced medical treatment before and during transport to a medical facility. Paramedics work for fire departments, rescue squads, private providers, industrial companies, clinics, and hospitals.

Classroom, clinical and field internship training prepares paramedics to assess and treat a wide variety of medical emergencies.

The knowledge, skills and experience gained through the paramedic program allows students to meet the responsibilities outlined in the Department of Transportation National Standard Curriculum.

The ARC Paramedic program is designed to prepare the student for certification as a paramedic, working for a fire department, rescue squad, private provider, industry, clinic or hospital.

Under the direct supervision and evaluation of a certified paramedic or a mobile intensive care nurse, the student will complete a field internship experience at a designated site. This provides pre-hospital experience and is the last course in the series preparing the student for certification.

In order to apply for the program, a student must have current certification as an EMT-1 and one year verified EMS experience, and a grade of "C" or better in a college-level human anatomy and physiology course which covers all systems.

## Requirements for Pre-enrollment to the Program

1. Graduation from an accredited high school or G.E.D.
2. Current certification as an EMT-1 and one year verified recent EMS experience (experience composite will be reviewed by admission committee); or PMED 102 with a grade of "B" or higher.
3. A grade of "C" or better in BIOL 430 and 431; or BIOL 100 and 101 or BIOL 102; or BIOL 115 and 117; or other college level human anatomy and physiology course which covers all systems.

4. NURSE 320 or PMED 105.
5. After enrollment into the program, comply with health requirements which include a physical exam and immunizations.

## Pre-enrollment Deadline

Qualified applicants may obtain a pre-enrollment form by calling the Health and Education Division office at 484-8902. Paramedic program pre-enrollment deadline is the first Friday in December. Grades in progress will be accepted. Final acceptance is contingent upon successful completion of course work and validation of EMT experience. Refer to the Paramedic program information sheet for the latest information.

## Enrollment

Only students who meet the pre-enrollment procedures will be considered for the program.

**Note:** Meeting all the course requirements does not guarantee enrollment to the program.

## Requirements for Degree Major or Certificate

BIOL 430 and 431, or BIOL 100 and 101 or 102; or other college level human anatomy and physiology course. PMED 110, 120, and 130.

## General Education Graduation Requirement:

Students must also complete the general education graduation requirements for an A.S. degree. See general education requirements.

## PMED 100 Emergency Medical Technician I 5 Units

Formerly: PMED 77

Prerequisite: HEED 310 or current Cardiopulmonary Resuscitation certification.

Course Not Transferable UC or CSU

Hours: 72 hours LEC; 72 hours LAB

This course is designed to instruct a student to the level of Emergency Medical Technician I. This includes all skills necessary for the individual to provide emergency medical care at a basic life support level with a fire, ambulance or other specialized service. This course is conducted in

compliance with Title 22, Division 9, Chapter 2 of the California Code of Regulation and Emergency Medical Technician I. A grade of "C" or better is required for certification as EMT-1. Not open to students who have taken FT 200. May be repeated by students whose EMT certification has lapsed.

### **PMED 102 Emergency Medical Technician - Basic, Pre-hospital Field Internship 5 Units**

Formerly: PMED 50

*Prerequisite:* Pre-paramedic skills placement exam, EMT 1 current certification.

*Corequisite:* Biology 100 and 101.

*Advisory:* ENGWR 102 or ENGWR 103 and ENGRD 116, or ESLR 320, and ESLW 320; MATH 32.

*Course Not Transferable UC or CSU*

*Hours:* 18 hours LEC; 206 hours LAB

This course is an internship that will provide opportunities to refine hands-on basic life support skills in the pre-hospital setting. This internship is in preparation for application to the American River College, Paramedic Education Program.

### **PMED 105 Prehospital Calculations .5 Units**

Formerly: PMED 64

*Prerequisite:* Current certification as an EMT-basic in the state of California, as required by Title 22.

*Advisory:* MATH 32.

*Course Not Transferable UC or CSU*

*Hours:* 9 hours LEC

This course provides basic instruction in calculating medication dosages in the pre-hospital setting.

### **PMED 110 Introduction to Advanced Prehospital Care 12 Units**

Formerly: PMED 51

*Prerequisite:* BIOL 100 and 101, NURSE 320 with a grade of "C" or better, admission to the Paramedic Program.

*Advisory:* MATH 100; ENGWR 102 or ENGWR 103 and ENGRD 116, or ESLR 320 and ESLW 320.

*Course Not Transferable UC or CSU*

*Hours:* 144 hours LEC; 216 hours LAB

This course contains the didactic material and related skills necessary to establish a foundation for subsequent pre-hospital assessment and management of patient. Anatomy and Physiology, Pharmacology, intravenous therapy, basic and advanced life support, electrocardiography are included. In addition, the course covers assessing and reporting to appropriate personnel in the pre-hospital arena. Course content emphasis includes topics related to medical/surgical, pediatric, obstetric, psychiatric/geriatric problems. Crisis intervention, medical legal issues are discussed.

### **PMED 120 Clinical Internship 6 Units**

Formerly: PMED 52

*Prerequisite:* PMED 110, with a grade of "C" or better; current Emergency Medical Technician I certification.

*Course Not Transferable UC or CSU*

*Hours:* 36 hours LEC; 216 hours LAB

This course is designed to provide an opportunity to apply the cognitive knowledge and skills gained in the Paramedic course to patient care in a hospital setting. This course provides for increasing assessment techniques and advanced skills.

### **PMED 130 Prehospital Field Internship 12 Units**

Formerly: PMED 53

*Prerequisite:* PMED 120 with a grade of "C" or better; current EMT I certification.

*Course Not Transferable UC or CSU*

*Hours:* 54 hours LEC; 480 hours LAB

Under the direct supervision and evaluation of a licensed paramedic or a mobile intensive care nurse, the student will complete a prehospital field internship experience at a predetermined clinical site. This internship will provide the paramedic student with hands-on prehospital experience and is the final course in the series preparing the student for licensure.

### **PMED 140 Pediatric Advanced Life Support Certification 1-6 Units**

Formerly: PMED 55

*Prerequisite:* Current Provider C Basic Cardiac Life Support card or county-approved equivalent certificate. Current licensure as a paramedic, nurse, physician, allied health professional or current enrollment in the last semester of an allied health program.

*Course Not Transferable UC or CSU*

*Hours:* 6-36 hours LEC; 12-72 hours LAB

This course provides education modules for health care professionals specific to pediatric emergencies for health care professionals. This course provides certification in PALS. This course may be taken four times for a maximum of six units.

### **PMED 142 Advanced Cardiac Life Support Certification 1-6 Units**

Formerly: PMED 56

*Prerequisite:* Current Provider C Basic Cardiac Life Support card or county-approved equivalent certificate. Current licensure as a paramedic, nurse, physician, allied health professional or current enrollment in the last semester of an allied health program.

*Course Not Transferable UC or CSU*

*Hours:* 6-36 hours LEC; 12-72 hours LAB

This course provides education modules for health care professionals specific to pediatric emergencies for health care professionals. This course provides certification in ACLS. This course may be taken four times for a maximum of six units.

### **PMED 150 Post Licensure/Certification Out-of-Hospital Skills: Cardiac .5 Units**

Formerly: PMED 57A

*Prerequisite:* Current certification as an EMT-Basic (1) or licensure as an EMT-Paramedic; current employment with an emergency medical services provider (911 transport).

*Course Not Transferable UC or CSU*

*Hours:* 6 hours LEC; 12 hours LAB

This course provides education modules related to cardiac emergencies for prehospital health care professionals. Each module will specifically address issues related to prehospital emergencies and local treatment protocol. This course provides continuing education credit necessary for maintenance of EMT-Basic certification or Paramedic licensure. This course may be taken four times.

### **PMED 151 Post Licensure/Certification Out-of-Hospital Skills: BLS & Airway .5 Units**

Formerly: PMED 57B

*Prerequisite:* Current certification as an EMT-Basic (1) or licensure as an EMT-Paramedic; current employment with a local emergency medical services provider (911 transport).

*Course Not Transferable UC or CSU*

*Hours:* 6 hours LEC; 12 hours LAB

This course provides education modules for prehospital health care professionals. Each module will specifically address issues related to prehospital emergencies and local treatment protocol. This course provides continuing education credit necessary for maintenance of EMT-Basic certification or Paramedic licensure. This course may be taken four times.

### **PMED 152 Post Licensure/Certification Out-of-Hospital Skills: Trauma .5 Units**

Formerly: PMED 57C

*Prerequisite:* Current certification as an EMT-Basic (1) or licensure as an EMT-Paramedic; current employment with an emergency medical services provider (911 transport).

*Course Not Transferable UC or CSU*

*Hours:* 6 hours LEC; 12 hours LAB

This course provides education modules specific to the kinematic of trauma for prehospital health care professionals. Each module will specifically address traumatic injuries, causes, assessment and management. Information related to prehospital emergencies and local trauma treatment protocols will also be reviewed. This course provides continuing education credit necessary for maintenance of EMT-Basic certification or Paramedic licensure. This course may be taken four times.

### **PMED 153 Post Licensure/Certification Out-of-Hospital Skills: Pediatric Care .5 Units**

Formerly: PMED 57D

*Prerequisite:* Current certification as an EMT-Basic (1) or licensure as an EMT-Paramedic; current employment with an emergency medical services provider (911 transport).

*Course Not Transferable UC or CSU*

*Hours:* 6 hours LEC; 12 hours LAB

This course provides education modules specific to pediatric emergencies for prehospital health care professionals. Each module will address issues related to the assessment and management of pediatric patients. National and local treatment protocols will be addressed. This course provides continuing education credit necessary for maintenance of EMT-Basic certification or Paramedic licensure. This course may be taken four times.

### **PMED 160 Introductory Wilderness Medicine 2 Units**

Formerly: PMED 61

*Prerequisite:* Current certification in provider level Cardiopulmonary Resuscitation.

*Advisory:* Basic First Aid.

*Course Not Transferable UC or CSU*

*Hours:* 27 hours LEC; 27 hours LAB

This course provides the didactic material and related skills necessary to establish a foundation of medical care in the wilderness setting. Anatomy and physiology, care of traumatic injuries, patient assessment, environment injuries, medical emergencies, and common simple wilderness medical problems are included. Additionally, basic wilderness survival for the initial responder, and selecting and caring for wilderness medical equipment and supplies will be covered. This course emphasizes improvised care options, and long term care in field settings.

### **PMED 161 Advanced Wilderness Medicine 2 Units**

Formerly: PMED 62

*Prerequisite:* None

*Course Not Transferable UC or CSU*

*Hours:* 27 hours LEC; 27 hours LAB

*Prerequisite:* PMED 160 or EMT, or other health care provider such as nurse or doctor. \*This course allows the student to gain an advanced level of medical care in the wilderness setting. Anatomy and physiology, improvised airway control, principles of musculoskeletal care, integration of field, synthesis of wilderness medicine and urban care, and common simple wilderness medical problems are included. Additionally, basic wilderness survival for the wilderness responder, and selecting and caring for wilderness medical equipment and supplies will be covered. This course emphasizes improvised care options, and long term care in remote field settings.

### **PMED 165 EMS Search and Technical Rescue 2 Units**

Formerly: PMED 60

*Prerequisite:* None

*Course Not Transferable UC or CSU*

*Hours:* 27 hours LEC; 27 hours LAB

This course provides the student with a foundation in several technical rescue disciplines. Practical applications of water rescue, low angle and high angle rescue, and urban search and rescue are covered. Additionally, basic survival skills in rescue environments for the EMT/Paramedic, and selecting and caring for rescue equipment and supplies will be covered. This course emphasizes scenario-based learning in safely assessing, managing and pre-planning for the technical rescue environment.

### **PMED 202 Emergency Medical Technician 1 - Recertification 1-6 Units**

Formerly: PMED 54

*Prerequisite:* Current Certification of Emergency Medical Technician I (Basic) or EMT 1.

*Course Not Transferable UC or CSU*

*Hours:* 20-120 hours LEC; 4-24 hours LAB

This course provides current Emergency Medical Technicians - Basic (EMT-1) with continuing education modules to satisfy recertification requirements of local/state and National EMS organizations. The course will cover several EMS related topics including airway management, cardiopulmonary resuscitation, patient assessment, spinal management, medical/legal documentation, vital signs and extrication techniques. This course may be taken four times for a maximum of six units.

### **PMED 240 Pediatric Advanced Life Support-Recertification .5 Units**

Formerly: PMED 58

*Prerequisite:* Current American Heart Association Pediatric Advanced Life Support Provider Card or county approved equivalent certificate.

*Course Not Transferable UC or CSU*

*Hours:* 8 hours LEC; 3 hours LAB

This course provides education modules specific to pediatric emergencies for health care professionals. This course provides recertification for the student according to the American Heart Association's Pediatric Advanced Life Support standards and guidelines. May be taken up to six (6) units.

### **PMED 242 Advanced Cardiac Life Support-Recertification .5 Units**

Formerly: PMED 59

*Prerequisite:* Current American Heart Association Advanced Cardiac Life Support Provider Card or county approved equivalent certificate.

*Course Not Transferable UC or CSU*

*Hours:* 8 hours LEC; 3 hours LAB

This course provides education modules specific for adult cardiac emergencies for health care professionals. This course provides recertification for the student according to the American Heart Association's Advanced Cardiac Life Support standards and guidelines. May be taken up to six (6) units.