

Area: Health & Education  
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Degree: A.S. - Paramedic  
 Certificate: Paramedic

## Paramedic Degree and Certificate

Paramedicine is an allied health 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. 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's National Standard Paramedic Training Curriculum.

### Career Opportunities

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

### Enrollment Eligibility

*To be eligible for enrollment in the program, the student must meet the following criteria:*

- Graduation from an accredited high school in the United States, or successful completion of General Education Development (GED) or the California High School Proficiency Exam (CHSPE).
- Students with a high school diploma from a school outside the United States must have transcripts evaluated by an approved independent agency. Such cases will be evaluated on an individual basis.
- A cumulative college GPA of 2.0 and a grade of "C" or better in BIOL 102, or BIOL 430 and BIOL 431, or other college human anatomy and physiology course with a lab which includes all human systems; a grade of "C" or better in NURSE 320 or PMED 105.
- Current curriculum planning summary sheet within the semester in which the pre-enrollment packet is being submitted.
- Completion of the program application (pre-enrollment packet) and submittal prior to the deadline.

### Enrollment Process

*Eligible students are selected for the program according to the following steps:*

- Pre-enrollment applications to the program may be obtained from the Health and Education Division office or at [www.arc.losrios.edu/edhealth/paramed.html](http://www.arc.losrios.edu/edhealth/paramed.html). Applications for Spring admission will be available by September and must be submitted to the division office no later than the first Friday in December by 4:00 p.m. Please refer to the Paramedic Information Sheet for the most current information.
- Only students who meet the educational requirements and follow the pre-enrollment procedures will be considered

for the program. Meeting all of these requirements does not guarantee enrollment in the program.

- Class size is limited. If the pre-enrollment pool is greater than the program can accept, students are chosen based on a computerized random selection process from among the qualified candidates.
- Students accepted into the Paramedic program are required to have a physical examination, inoculations, drug screen, background check, and malpractice insurance prior to entering the second semester.

Requirements for Degree Major or Certificate		36.5-43.5 Units
BIOL 102	Intro to Concepts of Human Anatomy and Physiology (4)	4 - 10
or BIOL 430	Anatomy and Physiology (5)	
and BIOL 431	Anatomy and Physiology (5)	
PMED 105	Prehospital Calculations (0.5)	0.5 - 1.5
or NURSE 320	Medical Dosage Calculations (1.5)	
PMED 110	Introduction to Advanced Prehospital Care	12
PMED 120	Clinical Internship	6
PMED 130	Prehospital Field Internship	14

**Associate Degree Requirements:** The Paramedic Associate in Science (A.S.) Degree may be obtained by completion of the required program, plus general education requirements, plus sufficient electives to meet a 60-unit total. See ARC graduation requirements.

### PMED 100 Emergency Medical Technician - Basic 5 Units

*Same As: FT 200*

*Prerequisite: HEED 323 with a grade of "C" or better*

*Enrollment Limitation: Not open to students with a current EMT - Basic certificate.*

*Hours: 72 hours LEC; 72 hours LAB*

This course is designed to provide instruction to the level of Emergency Medical Technician - Basic. Topics include skills necessary 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 Regulations and Emergency Medical Technician - Basic (EMT-I). A "C" or better is required for certification as Emergency Medical Technician - Basic. Field trips are required. This course may be taken four times for credit.

### PMED 101 Pre-paramedic Emergency Medical Technician - Basic Skills .5 Units

*Prerequisite: Current certification of Emergency Medical Technician - Basic (EMT-B).*

*Hours: 8 hours LEC; 16 hours LAB*

This course is designed for the Emergency Medical Technician - Basic (EMT-B) to review a variety of emergency field skills in preparation to begin a field internship. It also includes a selected number of EMT-B skills used as part of the skills competency requirement by the National Registry of Emergency Medical Technicians. This course may be taken four times. Credit/No Credit Only.

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

*Prerequisite:* PMED 101.

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

*Hours:* 18 hours LEC; 216 hours LAB

This course is an internship that provides 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**

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

*Advisory:* MATH 32.

*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**

*Prerequisite:* Acceptance into the Paramedic Program.

*Hours:* 144 hours LEC; 216 hours LAB

This course contains the didactic material and the related skills necessary to establish a foundation for subsequent prehospital assessment and management. Topics include anatomy and physiology, pharmacology, intravenous therapy, basic and advanced life support, electrocardiography, medical/surgical, pediatric, obstetrics, and psychiatric/geriatric problems. Crisis intervention, strategies, and medical legal concepts are also discussed.

**PMED 120    Clinical Internship    6 Units**

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

*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 Paramedicine course to patient care in a hospital setting. This course provides for increasing assessment techniques and advanced skills.

**PMED 130    Prehospital Field Internship    14 Units**

*Prerequisite:* PMED 120 with a grade of "C" or better.

*Enrollment Limitation:* Current EMT-Basic(I) certification. After enrollment, all students are required to successfully complete a background check prior to starting a field internship assignment.

*Hours:* 54 hours LEC; 600 hours LAB

Under the direct supervision and evaluation of a licensed paramedic or a mobile intensive care nurse, the intern completes a prehospital field experience. This internship provides the paramedic student with hands-on prehospital experience and is the final course in the series preparing the for a California paramedic license.

**PMED 140    Pediatric Advanced Life Support  
Certification (PALS)    .5 Units**

*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.

*Hours:* 6 hours LEC; 12 hours LAB

This course provides education modules for health care professionals specific to pediatric emergencies. Certification in pediatric advanced life support is granted to students who successfully complete the course. This course may be taken four times.

**PMED 142    Advanced Cardiac Life Support  
Certification    .5 Units**

*Prerequisite:* Current Provider C Basic Cardiac Life Support Card or equivalent licensure as a paramedic, nurse, physician, allied health professional or current enrollment in an Allied Health program.

*Hours:* 6 hours LEC; 12 hours LAB

This course provides education modules for health care professionals specific to pediatric emergencies. Certification in advanced cardiac life support is granted to students who successfully complete the course. This course may be taken four times.

**PMED 160    Introductory Wilderness Medicine    2 Units**

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

*Advisory:* Basic First Aid.

*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**

*Prerequisite:* PMED 160 or EMT, or other health care provider such as nurse or doctor.

*Hours:* 27 hours LEC; 27 hours LAB

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**

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

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

*Hours:* 8 hours LEC; 3 hours LAB

This course provides specific pediatric modules for health care professionals. It provides recertification according to the American Heart Association's Pediatric Advanced Life Support standards and guidelines. This course may be taken four times.

