

EMERGENCY MEDICAL SERVICES

Victor Valley College offers one preparatory course and two programs that enable students to enter careers in Emergency Medical Services. The preparatory course is Emergency Medical Responder (EMR). The first of the two programs is Emergency Medical Technician (EMT), after which students may continue to the Paramedic Program. Classes in this area meet California State EMS Authority and ICEMA (Inland County Emergency Medical Agency) regulations. The Paramedic program is accredited by the Committee on Accreditation of Educational Programs for the Emergency Medical Services Professions (CoAEMSP) and the Commission on Accreditation of Allied Health Education Programs (CAAHEP). Emergency Medical Responder (EMR) is both preparatory and can be utilized for areas such as ski patrol and private, industrial safety teams at remote or large locations. Emergency Medical Technician (EMT) is the minimum level of medical training / certification required to work on an ambulance or for a fire department (with additional Fire Technology coursework). Paramedic is the most advanced level of medical training found in the Public Safety profession (private and public sector) and is highly sought after by both ambulance and fire departments nationwide.

Faculty

Hendrickson, Brian

Jones, Scott

Myers, Christi

Olesen, David

Transfer

Not typically a transfer major. Students may pursue bachelor's degrees in related fields such as Emergency Medical Care, B.S. at Loma Linda University, Public Safety and Emergency Management, B.S. at Grand Canyon University, or Health Administration, B.S. with a concentration in Emergency Management at the University of Phoenix.

Emergency Medical Services, AS (04980)

This major includes specific admission requirements. Please visit the VVC Paramedic (<http://www.vvc.edu/academic/paramedic/admission-description.shtml/>) website for more information.

To earn this degree, complete the major coursework with "C" grades or better and all of the following graduation requirements: 60 minimum degree-applicable units (including a maximum 4 units of activity); 2.0 minimum overall GPA; 12 degree-applicable units through VVC; Information Competency; Global Citizenship; Kinesiology, and the VVC General Education (catalog.vvc.edu/degrees-certificates/vvcge/#vvcge) pattern. Courses may count in one area only, either in the major or in a general education category. Courses counted in one AA/AS major may not be used in another AA/AS major.

Code	Title	Units
Required Courses		
EMS 80	Paramedic Anatomy & Physiology	3.5
EMS 81	Paramedic Introduction to Emergency Medical Services	3.5
EMS 82	Paramedic Cardiology	4.5

Code	Title	Units
EMS 83	Paramedic Pharmacology	3.5
EMS 84	Emergency Medical Services	10.0
EMS 85	Paramedic Clinical	4.0
EMS 86	Paramedic Field Internship	11.5
Total Units		40.5

Advanced Life Support Module 1 Certificate of Achievement (38503)

The paramedic is able to diagnose and treat medical emergencies and accident victims in the prehospital setting. This certificate will include Emergency Medical Technician (EMS 60), Paramedic Anatomy and Physiology (EMS 80), Paramedic Introduction to EMS (EMS 81) and be known as ALS Module 1. The Paramedic program is a one-year program that runs from January to December or June to June, or as a hybrid 9.5-month program, and requires a special application. For more information visit the VVC Paramedic (<http://www.vvc.edu/academic/paramedic/>) website. Classes in this area meet California State EMS Authority and ICEMA regulations.

Code	Title	Units
Required Courses		
EMS 60	Emergency Medical Technician	9.5
EMS 80	Paramedic Anatomy & Physiology	3.5
EMS 81	Paramedic Introduction to Emergency Medical Services	3.5
Total Units		16.5

Advanced Life Support Module 2 Certificate of Achievement (38353)

This certificate is for successful completion of EMS 82 Paramedic Cardiology and EMS 83 Paramedic Pharmacology. These are the second sequence or semester of courses in the Paramedic Academy. These courses lay the foundations in Advanced Cardiac assessment, pathological diagnosis of cardiac disorders, treatment, pharmacokinetics, pharmacodynamics, and medication delivery. Classes in this area meet California State EMS Authority and ICEMA regulations.

Code	Title	Units
Required Courses		
EMS 82	Paramedic Cardiology	4.5
EMS 83	Paramedic Pharmacology	3.5
Total Units		8

Advanced Life Support Module 3 Certificate of Achievement (38366)

This certificate is for successful completion of EMS 84 Paramedic Emergency Medical Care Theory. This is the third sequence course in the Paramedic Academy. This course lays the foundations in both adult and pediatric Advanced Medical/Trauma assessment, pathological diagnosis of disorders and treatment. Classes in this area meet California State EMS Authority and ICEMA regulations. For more information visit the VVC Paramedic (<http://www.vvc.edu/academic/paramedic/>) website.

Code	Title	Units
Required Courses		
EMS 84	Emergency Medical Services	10.0
Total Units		10

Advanced Provider - Certificate of Completion Noncredit (40909)

This successful completion of the noncredit courses under this Advanced Provider certificate provides documentation of a successful knowledge base required for an advanced level of care of the sick and injured person.

Code	Title	Units
EMS 041	Basic Life Support Provider	0.0
EMS 042A	Advanced Cardiac Life Support (acLS) Provider	0.0
EMS 043	Pediatric Advanced Life Support (pALS)	0.0
EMS 044	Stop the Bleed	0.0
EMS 045B	Prehospital Trauma Life Support (PHTLS) Hybrid	0.0
Total Units		0

Basic Provider - Certificate of Completion - Noncredit (40910)

The successful completion of the noncredit courses under this Basic Provider certificate provides documentation of a successful knowledge base required for a basic level of care for the sick and injured person.

Code	Title	Units
EMS 041	Basic Life Support Provider	0.0
EMS 044	Stop the Bleed	0.0
Total Units		0

Emergency Medical Technician Certificate of Achievement (37290)

The EMT is the beginning level for professional emergency medical response personnel. It is minimum preparation required to staff and ambulance and most 911 medical response vehicles.

Code	Title	Units
Required Courses		
Complete all of the following with a C or better		
EMS 60	Emergency Medical Technician	9.5
Total Units		9.5

Emergency Medical Services Foundation Certificate of Achievement (38121)

The EMT is the beginning level for professional emergency medical response personnel. An Emergency Medical Responder curriculum is great preparation for becoming an EMT and research shows increased success with an EMT course. The EMT is the minimum preparation required to staff an ambulance and most 911 medical response vehicles. Completing both sequentially will provide optimal success. Classes in this area meet California State EMS Authority and ICEMA regulations.

Code	Title	Units
Required Courses		
EMS 50	Emergency Medical Responder	2.5
EMS 60	Emergency Medical Technician	9.5
Total Units		12

Paramedic Certificate of Achievement (20546)

The Victor Valley College Paramedic Program is accredited by the Commission on Accreditation of Allied Health Education Programs (<https://www.caahep.org/>) upon the recommendation of the Committee on Accreditation of Educational Programs for the Emergency Medical Services Professions (CoAEMSP).

Commission on Accreditation of Allied Health Education Programs:

9355 - 113th St. N, #7709
Seminole, FL 33775
727-210-2350 | www.caahep.org (<https://www.caahep.org/>)

Committee on Accreditation of Educational Programs for the Emergency Medical Services Professions:

8301 Lakeview Parkway Suite 111-312, Rowlett, TX 75088
214-703-8445 | [www.coaemsp.org](https://coaemsp.org/) (<https://coaemsp.org/>)

This certificate prepares students to take the state examination to practice as a paramedic.

Code	Title	Units
Required Courses		
Complete all of the following with a C or better		
EMS 80	Paramedic Anatomy & Physiology	3.5
EMS 81	Paramedic Introduction to Emergency Medical Services	3.5
EMS 82	Paramedic Cardiology	4.5
EMS 83	Paramedic Pharmacology	3.5
EMS 84	Emergency Medical Services	10.0
EMS 85	Paramedic Clinical	4.0
EMS 86	Paramedic Field Internship	11.5
Total Units		40.5

Paramedic Internship Certificate of Achievement (38502)

This certificate is for successful completion of EMS 85 Paramedic Clinical Internship and EMS 86 Paramedic Field Internship. These are the fourth sequence of courses in the Paramedic Academy. These courses place the student in the clinical hospital setting and field setting to complete advanced patient assessments, pathological diagnosis, and treatment on live patients under the leadership and observation of a preceptor. These are the final courses in the Paramedic Academy. Classes in this area meet California State EMS Authority and ICEMA regulations.

Code	Title	Units
Required Courses		
EMS 85	Paramedic Clinical	4.0

Code	Title	Units
EMS 86	Paramedic Field Internship	11.5
Total Units		15.5

Emergency Medical Services Courses

EMS 040 Heartsaver Cardiopulmonary Resuscitation (0.0 Units)

Heartsaver Courses are designed for anyone with little or no medical training who needs a course completion card for job, regulatory (e.g., OSHA), or other requirements. These courses can also be taken by anyone who wants to be prepared for an emergency in any setting. Heartsaver First Aid CPR AED Online has been updated to reflect new science from the 2015 AHA Guidelines for CPR & ECC and the 2015 AHA/Red Cross Guidelines for First Aid. This course is designed to prepare students to provide first aid, CPR, and use an automated external defibrillator (AED) in a safe, timely, and effective manner. Heartsaver First Aid CPR AED Online is the eLearning portion of the Heartsaver First Aid CPR AED Blended Learning Course and is designed to teach students information needed for first aid, CPR, and AED training. Upon completion of the online portion, students must complete hands-on skills session with an AHA BLS or Heartsaver Instructor. A certificate of completion is available to print when the online portion has been completed successfully. For greater success, it is recommended that the hands-on skills session be conducted shortly after completing the online portion. Upon successful completion of both the online and hands-on portions of the course, students will receive a Heartsaver First Aid CPR AED course completion card (print or eCard), valid for 2 years. This course does not apply to the Associate Degree.

Lecture Hours: 18.00

Transfer: Not transferable

EMS 041 Basic Life Support Provider (0.0 Units)

The HeartCode BLS online cognitive portion must be paired with a hands-on skills practice and testing session with an AHA BLS Instructor. Where available, students may also complete the hands-on portion with a voice-assisted manikin (VAM). Students who successfully complete the online portion receive a certificate that allows them entrance to a skills practice and testing session. An AHA BLS for Healthcare Providers course completion card will be issued upon successful completion of both parts. This course does not apply to the Associate Degree.

Lecture Hours: 18.00

Transfer: Not transferable

EMS 042A Advanced Cardiac Life Support (acls) Provider (0.0 Units)

HeartCode ACLS is the AHA's blended learning delivery method for the AHA's ACLS Course. Blended learning is a combination of eLearning, in which a student completes part of the course in a self-directed manner, followed by a hands-on session. HeartCode ACLS is a self-directed, comprehensive eLearning program that uses eSimulation technology to allow students to assess and treat patients in virtual healthcare settings. To enter the course, students must complete a precourse self-assessment. Students will then be presented with a team dynamics lesson and 10 In-hospital patient cases, including a BLS case and 2 megacode cases. The cases may be repeated as many times as necessary to pass. Upon successful completion of all the patient cases, students will take a multiple choice exam and must pass with a minimum score of 84%. This course does not apply to the Associate Degree.

Lecture Hours: 18.00

Transfer: Not transferable

EMS 042B Advanced Cardiac Life Support (ACLS) Experienced Provider (0.0 Units)

ACLS for Experienced Providers goes beyond the core ACLS training by offering critical thinking opportunities for those advanced, experienced, healthcare professionals who use ACLS on a regular basis. The goal of ACLS EP is to improve outcomes in complex cardiovascular, respiratory and other (e.g., metabolic, toxicologic) emergencies by expanding on core ACLS guidelines and encouraging critical thinking and decision-making strategies. Through cooperative learning and active participation in case-based scenarios, learners enhance their skills in the differential diagnosis and treatment of prearrest, arrest and postarrest patients. This course does not apply to the Associate Degree.

Lecture Hours: 18.00

Transfer: Not transferable

EMS 043 Pediatric Advanced Life Support (pals) (0.0 Units)

HeartCode® PALS is an online comprehensive eLearning program that uses eSimulation technology to allow students to assess and treat patients in virtual healthcare settings. In this environment, students apply their knowledge to real-time decision-making and skills development. To enter the course, students must complete the PALS Precourse Self-Assessment. Students are then presented with 12 In-hospital patient cases and a team dynamics lesson. Cases may be repeated as many times as necessary to pass. Upon successful completion of all the patient cases, students must pass the multiple-choice exam with a minimum score of 84%. Students who successfully complete the online portion of the course receive a certificate granting them access to a PALS Hands-on Session with an AHA PALS Instructor. Students must successfully complete both the online portion and the hands-on session to receive a PALS Provider course completion card (print or eCard). This course does not apply to the Associate Degree.

Lecture Hours: 18.00

Transfer: Not transferable

EMS 044 Stop the Bleed (0.0 Units)

The Bleeding Control Basic (BCon) Course v. 1.0 is designed for individuals who have little or no medical training but who may be called upon as immediate responders to provide initial trauma care and bleeding control to a victim of traumatic injury prior to the arrival of emergency medical services (EMS) or in an austere environment. This course does not apply to the Associate Degree.

Lecture Hours: 9.00

Transfer: Not transferable

EMS 045A Prehospital Trauma Life Support (phtls) (0.0 Units)

NAEMT's Prehospital Trauma Life Support (PHTLS) is recognized around the world as the leading continuing education program for prehospital emergency trauma care. The mission of PHTLS is to promote excellence in trauma patient management by all providers involved in the delivery of prehospital care. PHTLS is developed by NAEMT in cooperation with the American College of Surgeons' Committee on Trauma. The Committee provides the medical direction and content oversight for the PHTLS program. PHTLS courses improve the quality of trauma care and decrease mortality. The program is based on a philosophy stressing the treatment of the multi-system trauma patient as a unique entity with specific needs. PHTLS promotes critical thinking as the foundation for providing quality care. It is based on the belief that, given a good fund of knowledge and key principles, EMS practitioners are capable of making reasoned decisions regarding patient care. The course utilizes the internationally recognized PHTLS textbook. This course does not apply to the Associate Degree.

Lecture Hours: 32.00

Transfer: Not transferable

EMS 045B Prehospital Trauma Life Support (PHTLS) Hybrid (0.0 Units)

NAEMT's Prehospital Trauma Life Support (PHTLS) is recognized around the world as the leading continuing education program for prehospital emergency trauma care. The mission of PHTLS is to promote excellence in trauma patient management by all providers involved in the delivery of prehospital care. PHTLS is developed by NAEMT in cooperation with the American College of Surgeons' Committee on Trauma. The Committee provides the medical direction and content oversight for the PHTLS program. PHTLS courses improve the quality of trauma care and decrease mortality. The program is based on a philosophy stressing the treatment of the multi-system trauma patient as a unique entity with specific needs. PHTLS promotes critical thinking as the foundation for providing quality care. It is based on the belief that, given a good fund of knowledge and key principles, EMS practitioners are capable of making reasoned decisions regarding patient care. The course utilizes the internationally recognized PHTLS textbook. This course does not apply to the Associate Degree.

Lecture Hours: 32.00

Transfer: Not transferable

EMS 50 Emergency Medical Responder (2.5 Units)

This course provides training in basic emergency care skills, including patient assessment, CPR, automated external defibrillation, use of definitive airway adjuncts, splinting, and control of bleeding. (Formerly ALDH 70)

Lecture Hours: 36.00; Lab Hours: 27.00

Transfer: Not transferable

EMS 60 Emergency Medical Technician (9.5 Units)

This course provides training in basic emergency care skills, including CPR, automated external defibrillation, use of definitive airway adjuncts, and assisting patients with certain medications. Approved by the Inland Counties Emergency Medical Agency. All students must be eighteen (18) years of age, have a current TB test, and have CPR training equivalent to the AHA Healthcare Provider Level (Title 22, Division 9, Chapter 2, Section 100066 b2 California Code of Regulations) prior to first day of class due to current Clinical/Field internship affiliation agreements. (Formerly ALDH 71)

Recommended Preparation: EMS 50

Lecture Hours: 135.00; Lab Hours: 108.00

Transfer: Not transferable

EMS 61 Emergency Medical Technician-Refresher (1.0 Units)

Thirty hour refresher course required for renewal of EMT I certificate. New certificate of completion awarded. Course approved by the Inland County Emergency Medical Agency. (Formerly ALDH 72)

Lecture Hours: 9.00; Lab Hours: 27.00

Transfer: Not transferable

EMS 80 Paramedic Anatomy & Physiology (3.5 Units)

This is the introductory course of the paramedic program. This course includes basic anatomy, physiology and medical terminology for the paramedic. (Formerly ALDH 50)

Prerequisite(s): EMS 60, Minimum grade C, or an EMT card equivalent and Application and acceptance into Paramedic Academy

Lecture Hours: 54.00; Lab Hours: 27.00

Transfer: Not transferable

EMS 81 Paramedic Introduction to Emergency Medical Services (3.5 Units)

This course covers roles and responsibilities of the EMT-P. It also includes the Emergency Medical Services System, EMS communication and leadership as it relates to the EMT-P. (Formerly ALDH 51)

Prerequisite(s): EMS 60, Minimum grade C, or current CA EMT license or NREMT Basic Certification and Application and acceptance into the Paramedic Academy

Lecture Hours: 54.00; Lab Hours: 27.00

Transfer: Not transferable

EMS 82 Paramedic Cardiology (4.5 Units)

This course covers the cardiovascular system and includes anatomy and physiology of the heart, and application and interpretation of EKGs. (Formerly ALDH 52)

Prerequisite(s): Application and acceptance into the Paramedic Academy and successful completion of EMS 80 and EMS 81

Lecture Hours: 63.00; Lab Hours: 54.00

Transfer: Not transferable

EMS 83 Paramedic Pharmacology (3.5 Units)

This course will cover the general principles of Pharmacology including calculations and administration of various medications. (Formerly ALDH 53)

Prerequisite(s): Application and acceptance into the Paramedic Academy and successful completion of EMS 80 and EMS 81

Lecture Hours: 54.00; Lab Hours: 27.00

Transfer: Not transferable

EMS 84 Emergency Medical Services (10.0 Units)

This course covers the theoretical and scientific background of emergency medical care in the prehospital setting to include patient assessment, trauma and medical emergencies, and skills practice in the lab. (Formerly ALDH 55)

Prerequisite(s): Successful completion of EMS 80, EMS 81, EMS 82, and EMS 83; Application and acceptance to the paramedic program is required before registering for this course.

Lecture Hours: 144.00; Lab Hours: 108.00

Transfer: Not transferable

EMS 85 Paramedic Clinical (4.0 Units)

This course is the first part of the student's internship as part of the Paramedic Program. This includes 176 hours at an acute care facility performing Inland Counties Emergency Medical Agency Skills. (Formerly ALDH 56)

Prerequisite(s): Successful completion of EMS 84 and Application and Acceptance into the Paramedic Academy

Lab Hours: 216.00

Transfer: Not transferable

EMS 86 Paramedic Field Internship (11.5 Units)

This course is the field internship portion of the Paramedic Program.

Students will spend 600 hours in the field with a transport service performing Emergency Medical Technician skills. (Formerly ALDH 57)

Prerequisite(s): Application and acceptance into the Paramedic Academy and successful completion of EMS 85

Lab Hours: 621.00

Transfer: Not transferable

EMS 138 Cooperative Education Emergenc Medical Services (1-8 Units)

Cooperative Education is a key element of Victor Valley College's comprehensive approach to career development. Cooperative Education is a 16-, 12-, or 8-week course that enables students to receive college credit for paid or unpaid work opportunities. This course helps students gain valuable on-the-job work experience while providing practical education, best practices in professional development, and academic guidance through the course of their work opportunity. The combination of practical experience and curricular development empowers students to be more competitive, efficient and valuable employees upon completion of this program and/or their academic program trajectory. The course is ideal for students who are cross-training at their current worksite for upward mobility or seeking career changes, as well as those looking for entry-level occupational training through work-based learning experiences such as through an internship. Cooperative Education transforms community businesses, industries, and public agencies into expanded educational training laboratories. Credit is awarded on the basis of learning objectives completed and the number of hours the student trains. Students must create/complete new learning objectives each semester they enroll. Students may utilize their present work sites. More details are available in the Cooperative Education Office, (760) 245-4271, ext. 2281. The office, located in the Academic Commons, is open Monday-Thursday, 8:00 a.m.-1:00 p.m., 2:00-6:00 p.m., and by appointment. Please refer to the Cooperative Education section in this catalog for more information.

Transfer: Transfers to CSU only

Program Learning Outcomes

Program Learning Outcomes (PLOs) are statements of the kind of learning a program hopes a student will achieve. The PLOs describe the knowledge, skills, problem-solving, communication and values that apply to all certificates and/or degrees within that program.

Upon completion of this program, students should be able to:

- Describe the proper assessment, treatment and management of medical and trauma patients.
- Describe the laws and regulations pertaining to the role of an EMT.
- Accurately perform a patient assessment of medical and trauma patients on simulated patients.
- Recognize and manage a victim experiencing a medical emergency.
- Recognize and manage a victim experiencing a traumatic injury.
- Recognize the role and responsibility of the Emergency Medical Responder in the EMS System.
- Describe the proper assessment, treatment and management of medical and trauma patients.
- Describe the laws and regulations pertaining to the role of an EMT.
- Accurately perform a patient assessment of medical and trauma patients on simulated patients.
- Describe the proper assessment, treatment and management of medical and trauma patients.
- Describe the laws and regulations pertaining to the role of an EMT.
- Accurately perform a patient assessment of medical and trauma patients on simulated patients.
- Describe the role of oxygen in the human body and the implications if it does not receive the proper amount.
- Describe the value of knowing the basic anatomy and physiology of the human body when treating a patient.
- Distinguish the attributes, behaviors, historical milestones, and the leadership role you play within the EMS profession.
- Apply the behaviors that promote well being and stress management within the EMS profession.
- Interpret the ethical characteristics and demonstrate appropriate problem solving tools, needed to solve medical ethical dilemmas within the EMS profession.
- Interpret the laws, rules, and regulations as related to: negligence, malpractice, consent, and treatment within the EMS profession.
- Analyze and differentiate the various medical disorders of the human body, associated anatomical / pathophysiological abnormalities, design treatment modalities and assess for patient responses.
- Compare and contrast the anatomical and pathophysiological implications of pediatric emergencies, describe various medical and traumatic emergencies, describe treatment plans and assess for patient response to treatments.
- Differentiate the kinematics of trauma, mechanism of injury, compare and contrast the effects of trauma on various body systems, organize a standard approach to the trauma patient, arrange for specialized assistance and assess a critically injured patient within an acceptable time-frame.
- Differentiate the pathophysiology, formulate treatment plans and assess for patient improvement of various emergencies and conditions for the adult and pediatric patient.
- Analyze and classify patient conditions, organize patient exam techniques in the clinical setting and evaluate a complete patient assessment.
- Analyze and classify patient conditions, organize patient exam techniques in the field setting and evaluate a patient assessment for organizing effective reporting techniques.
- Recognize the need for basic and advanced life support skills, analyze the effectiveness, organize a standard approach and assess for effectiveness / success of each skill and assessment tool.
- Debate special reporting and documentation conditions, prepare a patient care report, categorize the different types of documentation approved for use in the field setting and choose the appropriate documentation format based on the conditions.
- Demonstrate hands on psychomotor skills under the direct supervision of a clinical preceptor (RN), these skills should include but are not limited to: IV insertion, medication administration, advanced airway procedures, and wound/orthopedic care.
- Describe the various modes of patient transportation, debate the appropriate use of ground versus air transportation, define patient implications for each mode of transportation, create decision patterns for

consideration of patient transportation modes and weigh the risks and benefits of each mode.

29. Examine the relative importance of complete scene management and leadership skills, formulate a communication plan and consider the safety of the EMS team.

30. Analyze and appropriately treat cardiac patients.

31. Compare and contrast the different routes of medication administration and the effects of the medications on the different body systems.

32. Differentiate medication classes and their effects on special patients such as: Geriatrics, Pediatrics, Chronically ill, and pregnant patients.

33. Calculate and properly prepare medication for administration.

34. Recognize safe and effective handling and administration of medications as well as the therapeutic effects on the patients.

35. Discuss the side effects, complications, post administration follow-up including: Documentation, and reassessment of the patient.

36. Adequately assess and treat patients requiring emergency medical care.

37. Demonstrates the ability to integrate the knowledge of injury / illness pathophysiology for all patients into a high quality of treatment and patient care.

38. Apply effective leadership and communication strategies to effectively manage an emergency situation.

39. Demonstrate the ability to evaluate various patient conditions and implement appropriate advanced skills based upon necessity.

40. Perform at a minimum, as a competent, safe practitioner in caring for the community and the critically sick and injured.

41. Successfully analyze a sick or injured patient and provide an advanced level of care.

42. Successfully treat a sick or injured patient providing a basic level of care.