

# Emergency Medical Technology

## Overview

Emergency Medical Services 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 Emergency Medical Technicians (EMT) to assess and treat a wide variety of medical emergencies. The knowledge, skills and experience gained through a one semester program allows students to meet the responsibilities outlined in the Department of Transportation's Emergency Medical Services Education Standards.

The goal of the ARC Emergency Medical Technology (EMT) program is to prepare individuals to render pre-hospital advanced life support within an organized Emergency Medical Services (EMS) system.

### Program Student Results/Outcomes and Positive Placement Data

- 2016-2018 National Registry Written - Cognitive Exam Results 100% (National Registry of Emergency Medical Technicians)
- 2016-2018 National Registry Psychomotor - Skills Exam Results 100% (National Registry of Emergency Medical Technicians)
- 2015-2017 Program Retention Average 84.3% (Los Rios District Registration & Roster database)
- Positive Placement Indicators 100% working in the industry or related industry. (California Community College Chancellor's office Launchboard database Gold Star awards)

The American River College Paramedic Program is accredited by the [Commission on Accreditation of Allied Health Education Programs \(https://www.caahep.org/\)](https://www.caahep.org/) upon the recommendation of the Committee on Accreditation of Educational Programs for the Emergency Medical Services Profession (CoEMSP)

## Roadmaps

Road maps lay out all of the courses you need to take for a given degree or certificate.

[Get a Road map! Explore Ways to Complete These Programs \(/academics/arc-program-road-maps\)](#)

Division Dean [Jan DeLapp \(/about-us/contact-us/faculty-and-staff-directory/jan-delapp\)](/about-us/contact-us/faculty-and-staff-directory/jan-delapp)  
 Department Chair [Grant Goold \(/about-us/contact-us/faculty-and-staff-directory/grant-goold\)](/about-us/contact-us/faculty-and-staff-directory/grant-goold)  
 HomeBase [Health and Service \(/academics/homebases/health-and-service\)](/academics/homebases/health-and-service)  
 Division [Health & Education Division Office \(/academics/health-and-education-division-office\)](/academics/health-and-education-division-office)  
 Phone (916) 484-8902

## Certificate

### Emergency Medical Technician (EMT) Certificate

This program prepares students to function as certified Emergency Medical Technicians. Training topics include the skills necessary to provide emergency medical care at a basic life support level with a fire, ambulance, or other specialized service. This program is conducted in compliance with Title 22, Division 9, Chapter 2 of the California Code of Regulations and Emergency Medical Technician (EMT). A "C" or better is required to obtain a course completion certificate.

Catalog Date: January 1, 2021

### Certificate Requirements

COURSE CODE	COURSE TITLE	UNITS
EMT 110	Emergency Medical Technician (EMT) Didactic	6
EMT 111	Emergency Medical Technician (EMT) Practicum	1
Total Units:		7

### Enrollment Eligibility

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

- Documentation of current American Heart Association CPR Basic Life Support certification. No other form of CPR certification is accepted. Students must be present and provide a copy of the AHA CPR certification on the first day of the course. Not open to students with current NREMT or California State certification or licensure as an EMT, EMT-Basic, Advanced EMT or paramedic.

### Enrollment Process

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

- Verification of current American Heart Association Basic Life Support CPR certification. No other form of CPR certification is accepted. Students must be present and provide a copy of the AHA CPR certification on the first day of the course. Not open to students with current NREMT or California State certification or licensure as an EMT, EMT-Basic, Advanced EMT or paramedic.

### Student Learning Outcomes

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

- evaluate the nature and seriousness of the patient's condition or extent of injuries.
- apply emergency medical care based on assessments and findings.

- demonstrate proper procedures in lifting, moving, and positioning a patient to minimize discomfort and prevent further injury.
- utilize communicating, transporting, and record keeping skills.

## Career Information

Emergency Medical Technicians operate in a variety of settings from public emergency services, private industry and health care facilities. EMT employment varies from community to community and is considered a growing occupation within the Allied Health professions.

# Emergency Medical Technology (EMT) Courses

## EMT 110 Emergency Medical Technician (EMT) Didactic

Units:	6
Hours:	81 hours LEC; 81 hours LAB
Prerequisite:	HEED 323 with a grade of "C" or better
Enrollment Limitation:	Documentation of current American Heart Association CPR Basic Life Support certification. No other form of CPR certification will be accepted. Students must be present and provide a copy of the AHA BLS CPR certification on the first day of the course. Not open to students with current NREMT or California State certification or licensure as an EMT, EMT-Basic, Advanced EMT or paramedic.
Advisory:	AH 110; ENGWR 102, and ENGRD 116 with a grade of "C" or better; OR ESLR 320 and ESLW 320 with a grade of "C" or better; MATH 32 (Pre-Algebra), or MATH 42 (Algebra Readiness - Part II)
Catalog Date:	January 1, 2021

This course provides academic preparation and psychomotor skills training to prepare the student for EMT 111, the Basic Life Support (BLS) clinical and field practicum. Successful completion of EMT 110 and EMT 111 will make the student eligible to take the National Registry of EMTs (NREMT) EMT certification exam. Topics include the BLS knowledge, application, and problem solving necessary to work as an EMT (formerly known as EMT-Basic or EMT-1) in the Emergency Medical Services (EMS) field for an ambulance service, fire department, emergency department, or other specialized service. A "C" letter grade as well as successful completion of the EMT 110 Exit Exam and psychomotor skill tests are required to be eligible for EMT 111. The course conforms to the 2007 National EMS Scope of Practice Model and 2009 EMS National Education Standards and complies with Title 22, Division 9, Chapter 2 of the California State Code of Regulations. This course is approved by the Emergency Medical Services (EMS) Agency of the Sacramento County Health Department. Field trips and off-campus lab assignments may be required.

## Student Learning Outcomes

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

- evaluate the acuity of an illness or injury during simulated patient care encounters based on a given scenario, assessment findings and diagnostic data.
- formulate a field diagnosis, a differential diagnosis and an appropriate plan for treatment and transport, given a set of typical signs, symptoms and vital signs data.
- perform typical BLS tasks safely and effectively while conforming to NREMT and California State standards.
- demonstrate the requisite knowledge, knowledge application and problem-solving ability appropriate for an entry-level EMT during a validated, predictive Exit Exam covering the same topic areas as the NREMT certification exam.
- list the appropriate pharmacological knowledge required for the medications outlined in the National EMT Scope of Practice Model.
- describe the methods and skills needed to safely and effectively administer the medications outlined in the National EMT Scope of Practice Model during a simulated patient encounter.
- demonstrate the affective attributes expected of an entry-level EMT and Allied Healthcare professional.

## EMT 111 Emergency Medical Technician (EMT) Practicum

Units:	1
Hours:	54 hours LAB
Prerequisite:	EMT 110, HEED 310, and HEED 323 with grades of "C" or better
Enrollment Limitation:	Current Healthcare Provider CPR certification or equivalent is required. Must be able to pass a qualifying background check and drug screen, show proof of current immunizations. The student must be able to purchase online resources, malpractice insurance as well as a uniform and other lab equipment. This course is not available to students with current EMT certification or who are licensed paramedics since they have already achieved the learning outcomes for this course. Due to regulatory requirements, this course must be completed less than twelve months after the beginning of EMT 110.
Advisory:	AH 110; ENGWR 102, and ENGRD 116 with a grade of "C" or better; OR ESLR 320 and ESLW 320 with a grade of "C" or better; MATH 32 (Pre-Algebra), or MATH 42 (Algebra Readiness - Part II)
Catalog Date:	January 1, 2021

This course provides the supervised practical lab hours necessary to complete EMT education after completion of EMT 110. Successful completion of EMT 110 and EMT 111 will make the student eligible to take the National Registry of EMTs (NREMT) EMT certification exam. The student is placed in the clinical and field environments necessary to obtain the minimum required patient contacts. This course conforms to the 2007 National EMS Scope of Practice Model as well as the 2009 EMS National Education Standards and complies with Title 22, Division 9, Chapter 2 of the California State Code of Regulations. This course is approved by the Emergency Medical Services (EMS) Agency of the Sacramento County Health Department. Field trips or off-campus lab assignments are required. This course is Pass/No Pass only.

## Student Learning Outcomes

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

- demonstrate the affective attributes associated with both an EMT and an Allied Healthcare professional.
- assess, manage, treat and either transport or prepare for transport a minimum of ten ill or injured patients utilizing fundamental EMT knowledge and skills.
- explain the practical responsibility of the EMT during the transfer of care using personal experience with actual prehospital and hospital patient contacts.
- demonstrate, during simulated or actual patient contacts, the appropriate strategies used when confronted by a patient-initiated refusal of care and/or transport.
- draft patient care reports, for at least five actual patient contacts, that exceed the minimum standards for prehospital documentation and data entry.
- interview, using the appropriate therapeutic communication techniques, all the parties necessary to acquire the information necessary to ascertain an actual or simulated patient's condition.

## EMT 150 Advanced Emergency Medical Technician (AEMT) Didactic

Units:	3
Hours:	36 hours LEC; 54 hours LAB
Prerequisite:	HEED 310 and 323 with grades of "C" or better
Enrollment Limitation:	Current Healthcare Provider CPR or equivalent recognition and California State EMT certification are required. The student must be able to purchase online resources as well as a uniform and other lab equipment. This course is not available to certified NREMT or California State Advanced EMTs or paramedics.
Advisory:	AH 110, BIOL 102, and PMED 105; ENGWR 102, and ENGRD 116 with a grade of "C" or better; OR ESLR 320 and ESLW 320 with a grade of "C" or better; MATH 32 (Pre-Algebra), or MATH 42 (Algebra Readiness - Part II)
Catalog Date:	January 1, 2021

This course provides academic preparation and psychomotor skills training to prepare the student for EMT 151, the Advanced Emergency Medical Technician (AEMT) clinical and field Internship. Successful completion of EMT 150 and EMT 151 will make the student eligible to take the National Registry of EMTs (NREMT) Advanced EMT certification exam. Topics include the Limited Advanced Life Support (LALS) knowledge, application and problem solving skills necessary to work as an AEMT (formerly known as EMT-Intermediate or EMT-2) in the Emergency Medical Services (EMS) field for an ambulance service, fire department, emergency department or other specialized service. A "C" letter grade as well as successful completion of the EMT 150 Exit Exam and psychomotor skill tests are required to be eligible for EMT 151. The course conforms to the 2007 National EMS Scope of Practice Model and 2009 EMS National Education Standards and complies with Title 22, Division 9, Chapter 3 of the California State Code of Regulations. This course is approved by the Emergency Medical Services (EMS) Agency of the Sacramento County Health Department. Field trips or off-campus lab assignments are required.

## Student Learning Outcomes

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

- distinguish between sub-acute, acute and unmanageably ill or injured patients during simulated patient care encounters based on a given scenario, assessment findings and diagnostic data.
- formulate a field diagnosis, a differential diagnosis and an appropriate plan for LALS treatment and transport, given a set of typical signs, symptoms and vital sign data.
- demonstrate the willingness and ability to perform the typical LALS procedures and tasks safely and effectively while conforming to NREMT and California State standards.
- demonstrate the requisite knowledge, knowledge application and problem-solving ability appropriate for an entry-level AEMT during an Exit Exam covering the same topic areas as the NREMT certification exam.
- perform, in a safe and effective manner, the administration of LALS medications outlined in the National EMT Scope of Practice Model during a static skill exam or simulated patient encounter.
- choose the BLS and LALS airway management techniques optimal for a simulated patient with a given condition in a variety of typical field conditions.
- demonstrate the affective attributes expected of an entry-level AEMT and Allied Healthcare professional.

## EMT 151 Advanced Emergency Medical Technician (AEMT) Internship

Units:	3.5
Hours:	189 hours LAB
Prerequisite:	EMT 150, HEED 310, and HEED 323 with grades of "C" or better
Enrollment Limitation:	Current Healthcare Provider CPR or equivalent certification and California State EMT certification is required. The student must be able to pass a qualifying background check and drug screen, show proof of current immunizations. The purchase of online resources, malpractice insurance as well as a uniform and other lab equipment is also required. This course must be completed less than six months after the completion of EMT 150. This course is not available to NREMT or California State certified AEMTs or paramedics.
Advisory:	AH 110 and BIOL 102; PMED 105 or NURSE 320
Catalog Date:	January 1, 2021

This course provides supervised clinical and field internship experience at the Limited Advanced Life Support (LALS) scope of practice. Successful completion of EMT 150 and EMT 151 makes the student eligible to take the National Registry of EMTs (NREMT) Advanced Emergency Medical Technician (AEMT) certification exam. The course conforms to the 2007 National EMS Scope of Practice Model and 2009 EMS National Education Standards and complies with Title 22, Division 9, Chapter 3 of the California State Code of Regulations. This course is approved by the Emergency Medical Services (EMS) Agency of the Sacramento County Health Department. Field trips or off-campus lab assignments are required.

## Student Learning Outcomes

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

- assess, manage, treat, and either transport or prepare for transport ill and injured patients utilizing fundamental AEMT knowledge and skills.
- analyze typical and unusual case studies that reflect the practical responsibility of the AEMT during the transfer of care using his or her experience with actual prehospital patient contacts.
- critique, in a quality improvement format, simulated or actual patient contacts including the LALS treatment of medical and trauma patients as well as cases of patient-initiated refusal or care and/or transport.
- draft patient care reports for at least ten actual LALS patient contacts that exceed the minimum standards for prehospital documentation and data entry.
- interview, using the appropriate therapeutic communication techniques, all the parties needed to acquire the information necessary to ascertain an actual or simulated patient's condition.
- demonstrate the affective attributes associated with both an AEMT and an Allied Healthcare professional.
- assess, provide care for, and document a minimum of ten individual ALS patients to whom the intern appropriately administered intravenous fluids, LALS medications, a perilyngeal airway or defibrillation in either the hospital or field setting.

## EMT 298 Work Experience in Emergency Medical Technology

Units:	1 - 4
Hours:	60 - 300 hours LAB
Prerequisite:	None.
Enrollment Limitation:	Students must be in a paid or unpaid internship, volunteer position, or job related to the emergency medical technology field with a cooperating site supervisor. Students are advised to consult with the Emergency Medical Technology faculty to review specific certificate and degree work experience requirements.
Advisory:	Eligible for ENGRD 310 or ENGRD 312 AND ENGWR 300; OR ESLR 340 AND ESLW 340.
General Education:	AA/AS Area III(b)
Catalog Date:	January 1, 2021

This course provides students with opportunities to develop marketable skills in preparation for employment or advancement within the emergency medical technology field. It is designed for students interested in work experience and/or internships in associate degree level or certificate occupational programs. Course content includes understanding the application of education to the workforce, completion of Title 5 required forms which document the student's progress and hours spent at the work site, and developing workplace skills and competencies.

During the semester, the student is required to complete 75 hours of related paid work experience, or 60 hours of related unpaid work experience for one unit. An additional 75 or 60 hours of related work experience is required for each additional unit. All students are required to attend the first class meeting, a mid-semester meeting, and a final meeting. Additionally, students who have not already successfully completed a Work Experience course will be required to attend weekly orientations while returning participants may meet individually with the instructor as needed. Students may take up to 16 units total across all Work Experience course offerings. This course may be taken up to four times when there are new or expanded learning objectives. Only one Work Experience course may be taken per semester.

## Student Learning Outcomes

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

- demonstrate mastery of specific job skills in the emergency medical technology field related to an associate degree or certificate occupational program level career as written in the minimum three (3) learning objectives created by the student and his/her employer or work site supervisor at the start of the course.
- make effective decisions, use workforce information, and manage his/her personal career plans.
- behave professionally, ethically, and legally at work, consistent with applicable laws, regulations, and organizational norms.
- behave responsibly at work, exhibiting initiative and self-management in situations where it is needed.
- develop effective leadership skills at work, with consideration to group dynamics, team and individual decision making, and workforce diversity.
- communicate in oral, written, and other formats, as needed, in a variety of contexts at work.
- locate, organize, evaluate, and reference information at work.
- demonstrate originality and inventiveness at work by combining ideas or information in new ways, making connections between seemingly unrelated ideas, and reshaping goals in ways that reveal new possibilities using critical and creative thinking skills such as logical reasoning, analytical thinking, and problem-solving.

# Faculty

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## [James Andersen \(/about-us/contact-us/faculty-and-staff-directory/james-andersen\)](/about-us/contact-us/faculty-and-staff-directory/james-andersen)

Adjunct Professor

**Office:** ARC Main

**Email:** [AndersJ@arc.losrios.edu \(mailto:AndersJ@arc.losrios.edu\)](mailto:AndersJ@arc.losrios.edu)

**Phone:** (916) 286-3691 ext. 12243

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## [Marisol Ayala-Garcia \(/about-us/contact-us/faculty-and-staff-directory/marisol-ayala-garcia\)](/about-us/contact-us/faculty-and-staff-directory/marisol-ayala-garcia)

Professor

**Office:** ARC Main

**Email:** [AyalaM@arc.losrios.edu \(mailto:AyalaM@arc.losrios.edu\)](mailto:AyalaM@arc.losrios.edu)

**Phone:** (916) 484-4528

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## [Grant Goold \(/about-us/contact-us/faculty-and-staff-directory/grant-goold\)](/about-us/contact-us/faculty-and-staff-directory/grant-goold)

Professor and Coordinator

**Office:** ARC Main, Health & Education South, 756

**Email:** [GooldG@arc.losrios.edu \(mailto:GooldG@arc.losrios.edu\)](mailto:GooldG@arc.losrios.edu)

**Phone:** (916) 484-8843

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## [Michael Marsh \(/about-us/contact-us/faculty-and-staff-directory/michael-marsh\)](/about-us/contact-us/faculty-and-staff-directory/michael-marsh)

Adjunct Faculty

**Office:** ARC Main

**Email:** [MarshM@arc.losrios.edu \(mailto:MarshM@arc.losrios.edu\)](mailto:MarshM@arc.losrios.edu)

---

## [Eric Martin \(/about-us/contact-us/faculty-and-staff-directory/eric-martin\)](/about-us/contact-us/faculty-and-staff-directory/eric-martin)

Professor

**Office:** ARC Main, Health & Education South, 755

**Email:** [MartinE@arc.losrios.edu \(mailto:MartinE@arc.losrios.edu\)](mailto:MartinE@arc.losrios.edu)

**Phone:** (916) 484-8845

---

## [Scott McCartney \(/about-us/contact-us/faculty-and-staff-directory/scott-mccartney\)](/about-us/contact-us/faculty-and-staff-directory/scott-mccartney)

Adjunct Faculty

**Office:** ARC Main

**Email:** [McCartM@arc.losrios.edu \(mailto:McCartM@arc.losrios.edu\)](mailto:McCartM@arc.losrios.edu)

**Phone:** (916) 286-3691 ext. 12382

---

## [Scott Perryman \(/about-us/contact-us/faculty-and-staff-directory/scott-perryman\)](/about-us/contact-us/faculty-and-staff-directory/scott-perryman)

Adjunct Professor

**Office:** ARC Main

**Email:** [PerrymanS@arc.losrios.edu \(mailto:PerrymanS@arc.losrios.edu\)](mailto:PerrymanS@arc.losrios.edu)

**Phone:** (916) 286-3691 ext. 12297

---

## [Rob Riley \(/about-us/contact-us/faculty-and-staff-directory/rob-riley\)](/about-us/contact-us/faculty-and-staff-directory/rob-riley)

Adjunct Professor

**Office:** ARC Main

**Email:** [RileyR@arc.losrios.edu \(mailto:RileyR@arc.losrios.edu\)](mailto:RileyR@arc.losrios.edu)

---

## [Chris Ryther \(/about-us/contact-us/faculty-and-staff-directory/chris-ryther\)](/about-us/contact-us/faculty-and-staff-directory/chris-ryther)

Professor

**Office:** ARC Main, Health & Education South, 754

**Email:** [RytherC@arc.losrios.edu \(mailto:RytherC@arc.losrios.edu\)](mailto:RytherC@arc.losrios.edu)

**Phone:** (916) 484-8028

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## [Dale Stewart \(/about-us/contact-us/faculty-and-staff-directory/dale-stewart\)](/about-us/contact-us/faculty-and-staff-directory/dale-stewart)

Adjunct Professor

**Office:** ARC Main

**Email:** [StewardD@arc.losrios.edu \(mailto:StewardD@arc.losrios.edu\)](mailto:StewardD@arc.losrios.edu)

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## [Lee Welter \(/about-us/contact-us/faculty-and-staff-directory/lee-welter\)](/about-us/contact-us/faculty-and-staff-directory/lee-welter)

## [Ronald Wolfley \(/about-us/contact-us/faculty-and-staff-directory/ronald-wolfley\)](/about-us/contact-us/faculty-and-staff-directory/ronald-wolfley)

Adjunct Professor

**Office:** ARC Main

**Email:** [WelterL@arc.losrios.edu \(mailto:WelterL@arc.losrios.edu\)](mailto:WelterL@arc.losrios.edu)

**Phone:** (916) 286-3691 ext. 12185

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[staff-directory/ronald-wolfley](#)

Adjunct Professor

**Office:** ARC Main

**Email:** [WoffleR@arc.losrios.edu \(mailto:WoffleR@arc.losrios.edu\)](mailto:WoffleR@arc.losrios.edu)

## ARC Paramedic-EMT Paramedicine Program

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