

ECHT 205 Telecommunication Systems (4.5)

3 hours lecture-3 hours lecture/laboratory

Recommended preparation: ECHT 102 and 203**Transfer acceptability:** CSU

Review of basic electronic analog and digital principles. Communication of information using analog/digital electronic transmission lines, antennas, testing and troubleshooting, as they relate to RADIO, RADAR, TV, Computers, Modems, Networks (Internet, World Wide Web [WWW]), Satellites, Cellular phones, and Fiber optic systems, will be addressed.

Emergency Medical Education (EME)

Contact the Emergency Medical Education Department for further information. (760) 744-1150, ext. 8150
Office: ESC-610

Associate in Arts Degrees -

AA Degree requirements are listed in Section 6 (green pages).

- Paramedic Training

Certificates of Achievement -

Certificate of Achievement requirements are listed in Section 6 (green pages).

- Paramedic Training

College Credit for Certified Paramedics

This policy is for granting college credit for certified paramedics toward an Associate in Arts degree in Emergency Medical Technician Paramedic. In order for an already certified Paramedic to be granted college units for his/her certification, the following requirements must be met:

1. The EMT P must be currently certified in California as an EMT P.
2. The EMT P must be currently registered at Palomar College.

EMT-P Credit

1. The student may receive a maximum of 31 units for his/her EMT P training, which is equal to the number of units given at Palomar College for the EMT P courses.
2. The student may receive a maximum of 6 units for his/her former EMT B training, which is equal to the number of units given at Palomar College for the EMT B courses.
3. The student may not receive duplicate credit for any other EMT B or EMT P courses.

Degree Requirements

The Associate in Arts degree in Emergency Medical Technician Paramedic requires 60 units. The following criteria must be met:

1. 30 units must be issued by an accredited college on a letter grade basis, of which 12 units must be completed at Palomar College.
2. All other general education and competency requirements for the Associate in Arts degree as provided in the college catalog must be met.
3. When the student has completed the general education and competency requirements for the Associate in Arts degree and the 12 units required to be completed at Palomar College, the student will be awarded unit credit for education/training received in becoming an EMT P.

Paramedics interested in taking advantage of this policy should contact the Emergency Medical Education Department at (760) 744 1150, ext. 8150. Paramedics will be required to provide a copy of his or her paramedic license and course completion certificate for verification of paramedic licensure. Paramedics must also send prior college transcripts to the college and make an appointment with the Counseling Department at (760) 744-1150, ext. 2179 for evaluation of general education requirements.

PROGRAMS OF STUDY**Emergency Medical Technician Basic**

The Emergency Medical Technician Program prepares the student in all elements of pre-hospital Basic Life Support. Upon successful completion of the program, the student is eligible to take the San Diego County EMT-Basic certification exam, which is the National Registry Emergency Medical Technician Basic exam.

Required Courses	Units
EME 100/PE 104 Advanced First Aid	3
EME 106 EMT Basic (Lecture)	6
EME 106L EMT Basic Skills (Laboratory)	1

Paramedic Training

The Paramedic Program prepares the student in all elements of prehospital advanced life support. Upon successful completion of the program, the student is eligible to take the State of California EMT P certification exam, which is the National Registry Emergency Medical Technician-Paramedic Exam.

Admission to the program is by special application.

To be eligible for consideration, the applicant must:

1. Have one year full-time pre-hospital experience as an EMT Basic.
2. Be eligible for admission to Palomar College.
3. Meet academic requirements outlined in the Paramedic Program brochure produced by the EME Program.

AND

4. Have completed ZOO 145 with a grade of 'C' or better and EME 175 and EME 175L with a "B" or better.

Prerequisite Courses	Units
ZOO 145 Intro to Anatomy/Physiology	3
EME 106 EMT Basic (Lecture)	6
EME 106L EMT Basic Skills (Laboratory)	1
EME 175 Paramedic Preparation (Lecture)	2
EME 175L Paramedic Preparation Skills (Laboratory)	1

A.A. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

Students must achieve a minimum score of 80% in each of the required courses in order to continue in the program.

Program Requirements	Units
EME 206 Intro/Paramedic Training (Lecture)	4
EME 206L Intro/Paramedic Training (Laboratory)	1
EME 207 Paramedic Medical Training (Lecture)	10
EME 207L Paramedic Medical Skills (Lab)	1.5
EME 208 Paramedic Trauma Training (Lecture)	4.5
EME 208L Trauma Skills (Laboratory)	.5
EME 209 Paramedic Obstetrical/Pediatric Training (Lecture)	2.5
EME 209L Paramedic Obstetrical/Pediatric Skills (Lab)	.5
EME 210 Hospital Clinical Experience	4
EME 211 Clinical Integration I	1.5
EME 212 Clinical Integration II	1.5
EME 215 Field Internship	9

TOTAL UNITS 40.5

COURSE OFFERINGS

Courses numbered under 100 are not intended for transfer credit.

EME 55 CPR for Health Care Providers (.5)*½ hour lecture***Note:** Credit/No Credit grading only; may be taken 4 times

Cardio-pulmonary resuscitation (CPR) course for one person CPR, two person CPR, child CPR, infant CPR, AED, obstructed airway, BVM, and mouth-to-mask ventilation based on current American Heart Association standards.

- EME 100 Advanced First Aid (3)**
3 hours lecture
Note: Cross listed as PE 104
Transfer acceptability: CSU; UC
The study and application of emergency medical skills and procedures, including basic anatomy and physiology, terminology, and prevention of disease transmission, for CPR certification from the American Heart Association.
- EME 106 Emergency Medical Technician Basic (Lecture) (6)**
6 hours lecture
Prerequisite: Current BLS course CPR card and Emergency Response or equivalent card, and must be age 18 by the first day of class. Proof of meeting the prerequisite will be required at the first class meeting.
Corequisite: EME 106L
Note: May not be taken for Credit/No Credit grading; may be taken 2 times
The study of EMT theory and knowledge required for identification and treatment of pre-hospital emergencies. The course prepares the student for National Registry, California, and San Diego County EMT-Basic certification.
- EME 106L Emergency Medical Technician Basic Skills (Laboratory) (1)**
3 hours laboratory
Prerequisite: Current American Heart Association CPR for Health Care Providers CPR and American Red Cross Emergency Response card, and must be age 18 on the first day of EME 106.
Corequisite: EME 106
Note: Credit/No Credit grading only; may be taken 2 times
Application of skills required for treatment of pre-hospital emergencies. This course prepares the student for National Registry, California, and San Diego County EMT-Basic certification. Student is required to complete 16 hours supervised ambulance and emergency department observation.
- EME 116 Emergency Medical Technician Refresher Course (1.5)**
1/2 hour lecture
Prerequisite: Possess a valid current EMT-B, EMT-II or EMT-P certificate, or have possessed one within the last four years.
Note: Credit/No Credit grading only
Review of basic EMT material and update of new material and techniques. Meets State of California requirements for EMT-B recertification continuing education units. An Optional NREMT-B Recertification Exam available the day after the class ends.
- EME 175 Paramedic Preparation (2)**
2 hours lecture
Prerequisite: Current EMT with a minimum of 3 months full time pre-hospital experience.
Corequisite: EME 175L
An overview of paramedic-level assessment skills combined with appropriate paramedic-level anatomy, physiology, and treatment relevant to the disease processes studied.
- EME 175L Paramedic Preparation Skills (Laboratory) (1)**
3 hours laboratory
Prerequisite: Current EMT with a minimum of 3 months full time pre-hospital experience
Corequisite: EME 175
Note: Credit/No Credit grading only
Performance of EMT skills combined with appropriate paramedic-level anatomy, physiology and treatment relevant to the disease processes studied.
- EME 196 Special Problems in Field Internship (3,3.5,4,4.5,5)**
9, 10.5, 12, 13.5, or 15 hours laboratory
Corequisite: EME 210 or EME 215
Application of skills and knowledge necessary for student to successfully complete either the Clinical or Field Internship of Paramedic Training. This is for a student who needs to be extended up to 10 shifts to allow fulfillment of EME 210 or 215 course obligations and requires an individual student specific contract.
- EME 197A Emergency Medical Education Workshop: Emergency Medical Technician-Paramedic (.5-6)**
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture, laboratory, or lecture/laboratory may be scheduled by the department. Refer to Class Schedule.
Note: May be taken 4 times
Workshops to provide upgrading of knowledge and skills relative to paramedics. Will provide paramedic continuing education hours for classroom time. See Class Schedule for specific topic covered. Course title will designate subject covered.
- EME 197B Emergency Medical Education Workshop: Emergency Medical Technician-Basic (.5-6)**
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture, laboratory, or lecture/laboratory may be scheduled by the department. Refer to Class Schedule.
Note: May be taken 4 times
Workshops to provide upgrading of knowledge and skills relative to EMT's. Will provide EMT continuing education hours for classroom time as indicated by topic. See Class Schedule for specific topic covered. Course title will designate subject covered.
- EME 197E Emergency Medical Education Workshop: General (.5-6)**
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture, laboratory, or lecture/laboratory may be scheduled by the department. Refer to Class Schedule.
Note: May be taken 4 times
Innovative and creative aspects updating Emergency Medical Education professions. See Class Schedule for specific topic covered. Course title will designate subject covered.
- EME 200 Advanced Cardiac Life Support (1)**
1 hour lecture
Prerequisite: Current CPR for Health Care Providers Certificate or "BLS" CPR card and must be an M.D., R.N. or EMT-P
Note: Credit/No Credit grading only; may be taken 4 times
Advanced Cardiac Life Support knowledge and skills necessary to provide the appropriate early treatment for cardiopulmonary arrest. Based on current American Heart Association guidelines.
- EME 201 Pediatric Advanced Life Support (1)**
1 hour lecture
Prerequisite: Current CPR for Health Care Providers Certificate or "BLS" CPR card and must be an M.D., R.N., or EMT-P
Note: May be taken 3 times
Pediatric Advanced Life Support knowledge and skills necessary to provide the appropriate early treatment for pediatric emergencies. Based on current American Heart Association guidelines.
- EME 202 Prehospital Trauma Life Support (1)**
1 hour lecture
Prerequisite: Current CPR for Health Care Providers Certificate or "BLS" CPR card and must be an M.D., R.N. or EMT-P
Note: Credit/No Credit grading only; may be taken 3 times
Knowledge and skills taught to provide prehospital trauma life support appropriate for the care of the trauma patient. National Association of Emergency Medical Technicians based course.
- EME 203 Paramedic Challenge (Lecture) (2)**
2 hours lecture
Prerequisite: RN, MD, PA or former Paramedic who meets State of California challenge requirements
Corequisite: EME 203L
Note: Credit/No Credit grading only; may be taken 2 times
Didactic challenge course for individuals who qualify for Paramedic Challenge per State of California Code of Regulations, Title 22. Allows the individual to attend the didactic portion of Paramedic training as needed to meet paramedic course content per individual student contract.

EME 203L Paramedic Challenge Skills (Laboratory) (5)*1½ hours laboratory***Prerequisite:** RN, MD, PA or former Paramedic who meets State of California challenge requirements**Corequisite:** EME 203**Note:** Credit/No Credit grading only; may be taken 2 times

Application of skills necessary for challenge course for individuals who qualify for Paramedic Challenge per State of California Code of Regulations, Title 22. Allows the individual to attend the skills portion of Paramedic Training as needed to meet paramedic course content per individual student contract.

EME 206 Introduction to Paramedic Training (Lecture) (4)*4 hours lecture***Prerequisite:** Admission into Paramedic program**Corequisite:** EME 206L**Note:** May be taken 2 times

Introduction to Paramedic training which meets the requirements of the National Standard Curriculum for Paramedic Training.

EME 206L Introduction to Paramedic Training (Laboratory) (1)*3 hours laboratory***Prerequisite:** Admission into Paramedic program**Corequisite:** EME 206**Note:** Credit/No Credit grading only; may be taken 2 times

Application of skills used in the Introduction to Paramedic Training which meets the requirements of the National Standard Curriculum for Paramedic Training.

EME 207 Paramedic Medical Training (Lecture) (10)*10 hours lecture***Prerequisite:** Admission into Paramedic program**Corequisite:** EME 207L and EME 211**Note:** May be taken 2 times

The study of medical diseases for Paramedic training which meets the requirements of the National Standard Curriculum for Paramedic Training. Includes ACLS training and certification.

EME 207L Paramedic Medical Skills (Laboratory) (1.5)*4½ hours laboratory***Prerequisite:** Admission into Paramedic program**Corequisite:** EME 207**Note:** Credit/No Credit grading only; may be taken 2 times

Application of skills necessary for the medical portion of Paramedic Training which meets the requirements of the National Standard Curriculum for Paramedic Training.

EME 208 Paramedic Trauma Training (Lecture) (4.5)*4½ hours lecture***Prerequisite:** Admission into Paramedic program**Corequisite:** EME 208L and EME 212**Note:** May be taken 2 times

The study of traumatic emergencies for Paramedic training which meets the requirements of the National Standard Curriculum for Paramedic Training. Includes Pre-hospital Trauma Life Support training and certification.

EME 208L Trauma Skills (Laboratory) (5)*1½ hours laboratory***Prerequisite:** Admission into Paramedic program**Corequisite:** EME 208**Note:** Credit/No Credit grading only; may be taken 2 times

Application of skills necessary for trauma class of Paramedic training which meets the requirements of the National Standard Curriculum for Paramedic Training. Includes Pre-hospital Trauma Life Support training and certification.

EME 209 Paramedic Obstetrical and Pediatric Training (Lecture) (2.5)*2½ hours lecture***Prerequisite:** Admission into Paramedic program**Corequisite:** EME 209L and EME 212**Note:** May be taken 2 times

The study of Obstetrical and Pediatric emergencies for Paramedic training which meets the requirements of the National Standard Curriculum for Paramedic Training. Includes Pediatric Education for Pre-hospital Professionals.

EME 209L Paramedic Obstetrical and Pediatric Skills (Laboratory) (5)*1½ hours laboratory***Prerequisite:** Admission into Paramedic program**Corequisite:** EME 209**Note:** Credit/No Credit grading only; may be taken 2 times

Application of skills necessary for the Obstetrical and Pediatric class for Paramedic Training which meets the requirements of the National Standard Curriculum for Paramedic Training. Includes Pediatric Education for Pre-hospital Professionals.

EME 210 Hospital Clinical Experience (4)*12 hours laboratory***Prerequisite:** EME 209 and EME 209L**Note:** May be taken 2 times

Supervised clinical experience in acute care areas of hospitals where knowledge of advanced life support techniques is necessary.

EME 211 Clinical Integration I (1.5)*4½ hours laboratory***Corequisite:** EME 207**Note:** May be taken 2 times; Credit/No Credit grading only

Application of assessment and BLS skills necessary to be successful in Paramedic Training.

EME 212 Clinical Integration II (1.5)*4½ hours laboratory***Corequisite:** EME 208 and EME 209**Note:** Credit/No Credit grading only; may be taken 2 times

Application of assessment and BLS skills necessary to be successful in Paramedic Training.

EME 215 Field Internship (9)*28 hours laboratory***Prerequisite:** EME 210**Note:** May be taken 2 times

Assignment to a response vehicle with a field preceptor. Includes direct patient care responsibilities in providing advanced life support.

EME 295 Directed Study in Emergency Medical Education (1,2,3)*3, 6, or 9 hours laboratory***Prerequisite:** Approval of project or research by department chairperson/director**Note:** May be taken 4 times

Independent study for students who have demonstrated skills and/or proficiencies in Emergency Medical Education subjects and have the initiative to work independently on projects or research outside the context of regularly scheduled classes. Students will work under the personal supervision of an instructor.

Engineering (ENGR)

Contact the Physics and Engineering Department for further information.

(760) 744-1150, ext. 2505

Office: NS-355B

Associate in Arts Degrees -

AA Degree requirements are listed in Section 6 (green pages).

• Engineering

PROGRAM OF STUDY

Engineering

Provides the background to begin upper division coursework and will prepare the student for entry level jobs that require a knowledge of engineering