Note: May be taken 4 times

Study of digital logic concepts and their real-world application. Identification, selection, and installation of electrical conductors.

| Recommend Note: May be Study of bluep | Overcurrent Protection, Lighting Systems, Basic Blueprints and Specifications, and National Electric Code 1/2 hours laboratory ed preparation: ELTR 105 taken 4 times prints and specifications. Application of the National Electri ent protection, panelboards, and lighting systems. | (3.5) ic Code |
|---|--|-------------------------|
| Recommende Note: May be | | (3.5) |
| | ncepts for blueprints and specifications. Study of motor de d National Electric Code concepts. | sign and |
| | Motor Control Principles, Generators and Power Supplies, and National Electric Code e- 11/2 hours laboratory ed preparation: ELTR 107 taken 4 times | (3.5) |
| | hniques for controlling AC and DC motors. Students exami breaking technologies for power generation. | ne con- |
| | Transformer Theory, Leadership and Management, and Test Equipment e- 11/2 hours laboratory ed preparation: ELTR 108 taken 4 times | (3.5) |
| Explores the ment operation | theory and field application of transformers. Electrical tes on and use will be addressed. Includes management and lea supervisors. Special equipment for security systems is discu | dership |
| ELTR IIO 3 hours lecture | Specialty Systems | (3.5) |

Recommended preparation: ELTR 109

Note: May be taken 4 times

Examines specialty electrical systems commonly found in building construction. Includes fire alarm systems, closed-circuit television (CCTV) systems, telephone systems, cable television (CATV & MATV) systems, local area networks (LANs), fiber optic data systems, heating and air conditioning control systems, and light-ning protection systems.

Electro-Mechanical Equipment Technician (EMET)

Contact Occupational & Noncredit Programs for further information. (760) 744-1150, ext. 2284 Office: AA-138

Certificates of Achievement -

Certificate of Achievement requirements are listed in Section 6 (green pages). • Mail Processing Equipment Mechanic

Certificates of Proficiency -

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

Maintenance Mechanic

PROGRAMS OF STUDY

Mail Processing Equipment Mechanic

This certificate will provide the student with the necessary knowledge, skills and abilities to perform at the level of Mail Processing Equipment Mechanic level 8.

Students will learn to maintain the electrical and mechanical components for various mail processing equipment.

CERTIFICATE OF ACHIEVEMENT

| Program Requirements | | |
|----------------------|--|------|
| CI 105 | Electrical Codes I | 3 |
| CI 106 | Electrical Codes II | 3 |
| DMT 81 | Basic Hydraulics | 4 |
| EMET 50 | Basic Mechanics for Servicing Electro-Mechanical Equip | o. 3 |
| EMET 51 | Mail Processing Equipment Mechanic Exam Preparation | n 3 |
| IT/WELD 108 | Technical Mathematics | 3 |
| TOTAL UNIT | S | 19 |

Maintenance Mechanic

Specifically for individual employed or seeking employment in a medium to large distribution center and to prepare candidates to pass the mail processing equipment (EMET) technician's examination.

CERTIFICATE OF PROFICIENCY

| Program Re | quirements | Jnits |
|------------|---|-------|
| EMET 50 | Basic Mechanics for Servicing Electro-Mechanical Equip. | 3 |
| EMET 51 | Mail Processing Equipment Mechanic Exam Preparation | 3 |
| TOTAL UN | ITS | 6 |

COURSE OFFERINGS

Courses numbered under 100 are not intended for transfer credit.

EMET 50Basic Mechanics for Servicing Electro-
Mechanical Equipment(3)

3 hours lecture

Recommended preparation: Knowledge of simple algebraic equations; different number systems; different types of gears; mechanical advantage; and fluid dynamics Provides students with a basic overview of the maintenance process for postal service electro-mechanical equipment. Topics of study include levers and lever assemblies, gears and gear trains, sprockets and pulleys, basic hydraulics.

| EMET 51 | Mail Processing Equipment Mechanic | |
|---------|------------------------------------|-----|
| | Exam Preparation | (3) |

3 hours lecture

Recommended preparation: Technical Mathematics-Ability to perform simple algebraic equations; Electricity-Understand DC and AC fundamentals; Electronics-Understand basic electronic principles; Mechanics-Understand basic mechanic fundamentals; Digital Electronics-Understand basic digital electronic principles.

Designed to prepare students for the U.S. Postal Service Maintenance Mechanic, MPE-8 Entrance Examination. Highly recommended for students interested in a U.S. Postal Service Career focusing on equipment maintenance. Topics will cover all the aspects of mail processing equipment (MPE) maintenance, such as mechanics, electrical, and basic electronic systems.

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

Certificates of Proficiency -

Certificate of Proficiency requirements are listed in Section 6 (green pages). • EMT Basic



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:

I. 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

- I. The student may receive a maximum of 40.5 units for 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 7 units for former EMT $\ensuremath{\mathsf{B}}$ 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

EMT Basic

This program prepares the student with the knowledge and skills necessary to take the National Registry EMT examination and enter the workforce in the State of California.

CERTIFICATE OF PROFICIENCY

| Program Requirements | | |
|----------------------|--|----|
| EME 100/PE 104 | First Responder | 3 |
| EME 106 | Emergency Medical Technician Basic (Lecture) | 6 |
| EME 106L | Emergency Medical Technician Basic Skills (Laboratory) | |
| Total Units | | 10 |

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:

I.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 | | |
|----------------------|---|------|
| 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 (Laboratory) | 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 (Laboratory) | .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 |

TOTAL UNITS

Note: EME 220, 223, and/or 224 are to be taken by students who have not satisfactorily met program requirements. The EME Department will determine which course or courses should be taken and the number of hours required to make up the deficiencies.

COURSE OFFERINGS

Courses numbered under 100 are not intended for transfer credit. EME courses may not be taken as an audit.

EME 55 CPR for Health Care Providers 1/2 hour lecture

Note: Pass/No Pass 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.

(.5)

| EME 100 | First Responder | (3 | 3) |
|---------------|---------------------------|--|----|
| 3 hours lectu | re | | |
| Note: Cross | listed as PE 104 | | |
| Transfer ac | ceptability: CSU; UC | | |
| The study a | nd application of emergen | icy medical skills and procedures, inclu | d- |
| | | erminology, and prevention of disea n the American Heart Association. | se |

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 Pass/No Pass grading; may only 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.

(.5-6)

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EME 106L Emergency Medical Technician Basic Skills (Laboratory)

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: Pass/No Pass 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) 1½ 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: Pass/No Pass 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 125 EMT Interface

2 hours lecture- 9 hours laboratory

Prerequisite: A minimum grade of 'C' in EME 106 or EMT Basic, or concurrent enrollment in EME 106

Note: Pass/No Pass grading only

Necessary skills to take the EMT Basic from the classroom to the work environment. Covers county EMS legalities, and provides more in-depth knowledge and skills for EMS personnel to improve success and advancement in the EMS workforce.

EME 175 Paramedic Preparation

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: Pass/No Pass 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, 101/2, 12, 131/2, 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

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

(I)

(5)

(2)

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

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

Prerequisite: Current CPR for Health Care Providers Certificate or "BLS" CPR card and must be an M.D., R.N. or EMT-P

Note: Pass/No Pass 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 202Prehospital Trauma Life Support(1)

I 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: Pass/No Pass 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 chal

Prerequisite: RN, MD, PA or former Paramedic who meets State of California challenge requirements

Corequisite: EME 203L

Note: Pass/No Pass 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 203LParamedic 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: Pass/No Pass 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 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) 3 hours laboratory

Prerequisite: Admission into Paramedic program

Corequisite: EME 206

Note: Pass/No Pass 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)

41/2 hours laboratory

Prerequisite: Admission into Paramedic program

Corequisite: EME 207

Note: Pass/No Pass 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 208Paramedic Trauma Training (Lecture)(4.5)

41/2 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)

11/2 hours laboratory

Prerequisite: Admission into Paramedic program

Corequisite: EME 208

Note: Pass/No Pass 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)

21/2 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)

11/2 hours laboratory

Prerequisite: Admission into Paramedic program

Corequisite: EME 209

Note: Pass/No Pass 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 12 hours laboratory Prerequisite: A minimum grade of 'C' in EME 209 and EME 209L Note: May be taken 2 times Supervised clinical experience in acute care areas of hospitals where of advanced life support techniques is necessary. | (4) knowledge |
|---|---------------------------|
| EME 211 Clinical Integration I 4½ hours laboratory Corequisite: EME 207 Note: May be taken 2 times; Pass/No Pass grading only Application of assessment and BLS skills necessary to be successful in Training. | (1.5) Paramedic |
| EME 212 Clinical Integration II 4½ hours laboratory Corequisite: EME 208 and EME 209 Note: Pass/No Pass grading only; may be taken 2 times Application of assessment and BLS skills necessary to be successful in Training. | (1.5) Paramedic |
| EME 215 Field Intermedia | (0) |

EME 215 Field Internship (9) 28 hours laboratory

Prerequisite: A minimum grade of 'C' in EME 210

Note: May be taken 2 times

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

EME 220 Paramedic

 Refresher
 (2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7, 7.5, 8)

 2, 2½, 3, 3½, 4, 4½, 5, 5½, 6, 6½, 7, 7½, 8 hours lecture

 Prerequisite: Provide proof of receiving a failing grade in one or more of the following courses: EME 207, 207L, 208, 208L, 210, 215 within the previous 24 months.

 Provides students who were unsuccessful in one or more of the following courses, EME 207, 207L, 208, 208L, 210 or 215, an opportunity to refresh, strengthen, and maintain their clinical abilities and knowledge base.

EME 223OB/Peds Block Refresher(1,2)

1, 2 hours lecture

Prerequisite: Provide proof of receiving a failing grade in one or more of the following courses: EME 210, 215 within the previous 24 months

Corequisite: EME 224

Provides students who were unsuccessful in one or more of the following courses, EME 210 or 215, an opportunity to refresh, strengthen, and maintain their academic knowledge base in obstetrical and pediatric medicine.

| EME 224 | Clinical Refresher | (1.5) |
|------------------|------------------------|-------|
| 1/2 hour lecture | e - 3 hours laboratory | |
| Prerequisite: | Failure in EME 215 | |

Corequisite: EME 223

(2.5)

(.5)

Provides students who were unsuccessful in EME 215 an opportunity to refresh, strengthen, and maintain their clinical abilities and knowledge base.

EME 295Directed 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.