

## EMERGENCY MEDICAL SERVICES

**EMSP-105 CPR, AED, and First Aid** 1 cr.  
Training in cardiopulmonary resuscitation and use of an AED as well as basic first aid training. Students who take this course will receive an ASHI first aid provider card and an ASHI CPR/AED provider card.

**EMSP-107 CPR for the Professional Rescuer** 0.5 cr.  
Training in cardiopulmonary resuscitation and use of an AED at the professional rescuer level. CPR Professional certification is required for work in most professions in the medical field.

**EMSP-111 First Responder** 3 cr.  
Includes the minimum standard DOT and New Mexico curricula that prepare a First Responder to stay on the forefront of pre-hospital techniques and the advancing knowledge base of pre-hospital care. The lab instruction includes individual instruction in airway management, semiautomatic defibrillation, patient packaging, trauma management and patient assessment skills.

**EMSP-115 EMT-Basic** 10 cr.  
Includes the minimum standard DOT and New Mexico curriculum information as well as additional curricula that prepare an EMT-Basic to stay on the forefront of pre-hospital field techniques and the advancing knowledge base of pre-hospital care. Prerequisites: Accuplacer Reading 82+

**EMSP-117 EMT - Basic Refresher** 2 cr.  
This course provides a review of the information presented in the initial EMT-Basic and EMT-Intermediate classes and can be used to fulfill the requirements for the recertification at the New Mexico state and national level. Prerequisites: Appropriate level First Responder, EMT-Basic, EMT-Intermediate.

**EMSP-221 EMT-Intermediate** 8 cr.  
Includes the minimum standard New Mexico curricula as well as additional curricula that prepares an EMT-Intermediate to stay on the forefront of pre-hospital techniques, as well as updating the advancing and changing knowledge base of pre-hospital care. Following the successful completion of the didactic and laboratory aspects of the class, the student will complete clinical rotations/field internships. Prerequisites: EMT-Basic, current CPR for the Professional Rescuer.

**EMSP-245 Advanced Cardiac Life Support** 1 cr.  
Provides ACLS certification for students or those working in the medical profession. Prerequisites: Current Professional Rescuer CPR, Basic Arrhythmia Recognition or the ability to interpret cardiac rhythms, EMS or nursing experience.

**EMSP-246 Pediatric Advanced Life Support** 1 cr.  
Provides PALS certification for students or those working in the medical profession. Prerequisites: Current Professional Rescuer CPR, Basic Arrhythmia Recognition or the ability to interpret cardiac rhythms, EMS or nursing experience.

## ENGINEERING

**ENGR-111 Intro to Engineering** 2 cr.  
An introduction to engineering as a career. Issues important to engineers, as students and professionals, are discussed as well as career expectations. Basic computer skills and electronic data acquisition are introduced in a laboratory setting, emphasizing a hands-on approach to experimentation. Prerequisite: MATH 115. Corequisite: ENGL 111. Semester offered: Fall, Spring.

**EE-201 Engineering Circuit Analysis** 3 cr.  
Introductory engineering analysis of analog circuits. Topics include electrical component descriptions and equations (resistors, inductors, and capacitors), Kirchhoff's voltage and current laws, and calculus based formulation of network equations using time and frequency domain concepts. Prerequisite: MATH 189. Semester offered: Fall.

**CE-233 Mechanics-Statics** 3 cr.  
An introduction to basic engineering structural analysis of static (stationary) objects. Methods to examine external and internal forces on structural components are developed using vector methods. Prerequisites: MATH 189, PHYS 215. Semester offered: Fall.

**ME-159 Graphical Communication and Design (1+3p)** 2 cr.  
Sketching and orthographic projection. Detail and assembly working drawings, dimensioning, tolerance specification, and design projects. Semester offered: Spring.

**ME-234 Mechanics-Dynamics** 3 cr.  
Expand your knowledge of statics to the study of systems in motion. Dynamics is divided into two parts: "kinematics" examines the geometric aspect of motion (where does it go?), and "kinetics" covers forces involved in motion (how should I design it?). Vector analysis methods are used throughout. Prerequisites: MATH 189, CE 233. Semester offered: Spring.

**ME-240 Thermodynamics** 3 cr.  
This first course in thermodynamics is applicable to all engineering disciplines (and modern society in general) as it deals with energy, and an "energy-balance" approach to problem solving. The first portion is devoted to energy, energy transfer, and physical properties. The first law of thermodynamics (which relates energy to heat and work) and the second law (specifies the direction of certain processes) are then covered in detail. Prerequisite: MATH 268. Semester offered: Spring.

## ENGLISH

**ENGL-050 English Skills** 3 cr.  
Helps students build competence in sentence mechanics, grammar, and usage needed for academic and professional writing. Skills will be developed through ongoing writing assignments, as well as exercises and a range of active learning methods. The course may be taken either as a companion course (with ENGL 095, 099, 111, or 118) or on its own. Course is not applicable towards any degree or certificate. Prerequisite: APEN 0-029. Semesters Offered Fall, Spring, Summer.