Course Syllabus
EMSP 2534.HB 2504
Medical Emergencies

Prerequisite: (1) Current BCLS (CPR) certification at the Health Care Provider level by the American Heart Association or equivalent, (2) Successful completion of EMSP 1338 or EMSP 1438 and EMSP 1356, (3) Current certification by the Texas Department of State Health Services as an Emergency Medical Technician-Basic or higher.

Course Description: This course provides a detailed study of the knowledge and skills necessary to reach competence in the assessment and management of patients with medical emergencies. This course is cross-listed as EMSP 2434. The student may register for either EMSP 2434 or EMSP 2534, but may receive credit for only one of the two. (3 Lec., 3 Lab.)

Course Objectives
1. List, identify and discuss various medical conditions that affect the following body systems or areas, including their signs and symptoms, assessment techniques, potential complications and management in the prehospital setting:
   a. Respiratory
   b. Nervous
   c. Gastrointestinal
   d. Endocrine
   e. Renal
   f. Toxicology
   g. Vascular
   h. Hematology
   i. Environmental
   j. Infectious diseases
2. Discuss a complaint based approach to patient care, and apply principles of decision making to the prehospital setting.
3. Identify and discuss the classification, therapeutic action, dosage, indications, precautions, side effects and contraindications of medications utilized in the field for given medical emergency situations.
4. Participate and complete lab assignments that focus on medical patients.

Textbook
Required textbook for this course is The Paramedic – by Chapleau and Basic Arrhythmias by Walraven.

Academic Performance
Student grades, conduct/professional behavior, and skills performance are factors in successful completion of each course. All three (3) must be satisfactory for the student to continue in the program and graduate.

1. GRADING SCALE:
The following grading scale is used for all courses:
   A  100 – 94
   B  93 – 84
   C  83 – 75
   Less than 75 – Failure
2. BEHAVIOR
Students must demonstrate satisfactory progress toward achievement of The identified Behavioral competencies (integrity, empathy, self-motivation, appearance and personal hygiene, professional maturity/self-confidence, communications/critical thinking, time management, teamwork and diplomacy, respect, patient advocacy, and careful delivery of service.)
3. SKILLS EXAM
Mastery of the skills is required for successful completion of the program inability to demonstrate proficiency following retraining and retesting constitutes failure of the course.
4. LAB ACTIVITIES
All lab assignments must be successfully completed in order to pass the course.
5. DIADCTIVE GRADE CALCULATION
   a. QUIZ GRADES
      Quiz average constitutes 30% of course grade. A student that scores
      less than 75% on any quiz is eligible to retake the quiz within a period of
      time specified by the instructor. If the quiz re-examination score is above
      75%, then a 75% will be recorded as the quiz grade. If the quiz re-
      examination score is less than 75%, the highest score will stand.
   b. FINAL WRITTEN EXAM
      The final exam constitutes 70% of the course grade. A minimum score
      of 75% is required. A score of less than 75% constitutes failure of the
      course.

Course grade:
Quizzes = 30%
Final = 70%

Course Content - Schedule
Note: Schedule is subject to change.

WEEK 1:
   Research issues
   On board drugs
   Cardiology management
   Diabetes
   Lab: scenarios, alternative airways, on board drugs and drug delivery

WEEK 2:
   Respiratory emergencies
   On board drugs
   Arrhythmias and protocol
   Non-diabetic endocrine emergencies
   Neurological assessment and emergencies
   Protocols for altered LOC and seizures
   Clinical application sessions
   Allergic issues
   GI and acute abdomen
   Hematology
   Lab: medical patient assessment, scenarios, on board drugs, pacing, cardioversion

WEEK 3:
   Shock
   Sepsis
   Substance abuse
   Poisoning and toxicology
   Environmental emergencies
   Clinical application sessions
   Lab: medical patient assessment, scenarios, on board drugs, static cardiology,
   cardioversion and pacing and alternative airways

WEEK 4 & 5:
   Arrhythmias and protocol
   Gynecology emergencies
   Differential diagnosis: dyspnea, syncope, altered LOC
   Clinical application sessions
   Infectious diseases
   Lab: Pediatric physical exam, medical scenarios, OB and newborn scenarios, on board
   drugs

WEEK 6:
   Lab: ACLS megacodes, reporting, drug administration

WEEK 7:
   Lab: ACLS megacodes and scenarios