I. INTRODUCTION

A. **Course Description:** Assessment and management of patients with cardiac emergencies. Includes single and multi-lead ECG interpretation.

B. All aspects of the utilization of medications in treating cardiac emergency situations will be discussed. Upon successful completion of this course, EMSP 2434, EMSP 2262, EMSP 2263, EMSP 2206, EMSP 2305, EMSP 2330, EMSP 2143, and EMSP 2164 students will be eligible to take the exam to be certified as a Paramedic. This course is approved by the Texas Department of State Health Services (TDSHS) and is taught in accordance with the National Highway Traffic Safety Administration’s National EMS Education Standards and the TDSHS curriculum requirements.

C. **Prerequisites:**
   1. EMSP 1355, EMSP 1356, and EMSP 1338
   2. Current CPR certification
   3. Current EMT-Basic certification
   4. EMT-I certification or EMT-I/Advanced EMT CCC

D. **Co-requisites:**
   1. EMSP 2262 and EMSP 2206

E. **Secretary’s Commission on Achieving Necessary Skills (SCANS) and Differentiated Entry Level Competencies (DELC)**

   Alphanumeric coding used throughout the syllabus denotes the integration of SCANS occupational competencies (C) and foundation skills (F).

   This course is occupationally related and serves as preparation for jobs in prehospital care.

II. LEARNING OUTCOMES

Integrate pathophysiological principles and assessment findings to formulate a field
impression; and implement a treatment plan for the cardiac patient.

Upon successful completion of the course, the student will:

1. Demonstrate the ability to comprehend, apply, analyze, and evaluate information relevant to their role as a paramedic intern. (C5, 6, 7, F7, 8, 9, 10, 11, 12)

2. Demonstrate technical proficiency in all basic skills and the following advanced skills: advanced airway management, IV therapy, Venipuncture, shock therapy, drug calculations, medication administration, cardioversion and defibrillation, EKG Rhythm recognition, cardiovascular pharmacology, and medical Mega-code. (C18, 19, 20)

3. Exhibit affective qualities and personal behavior characteristics of a paramedic intern (C9-14, F5, 6, 13, 14, 15, 16, 17)

4. Communicate professionally with patient, team members, and hospital personnel. (C7, 9, 10, 11, 12, 13, 14)

5. Assumes the responsibility of self-development as a member in the profession of pre-hospital care (F13, 14, 15, 16, 17)

6. Recognize the necessary qualifications of a team leader and begin progression from team member to team leader. (C9, 10, 12, F5, 6)

7. Practice within the legal and ethical limits of the EMT-P intern. (F13, 14, 15, 16, 17)

III. INSTRUCTIONAL MATERIALS

A. Text: The instructional materials identified for this course are viewable through www.ctcd.edu/books

IV. COURSE REQUIREMENTS

A. Preparation for class: In preparation for any unit of study, it is suggested that the student first read the objectives and then the assigned required reading.

B. Attendance at Examinations: Written examinations will be given on dates noted on the daily plan. If a student cannot attend an examination, the Course Coordinator must be notified before the examination is given. Refer to CTC catalog for complete policy. Should student fail to notify the Course Coordinator a grade of “zero” will be given for the exam
C. Written assignments: All assigned written work and homework assignments must be submitted on time. No late papers are accepted, unless student makes prior arrangements with the Course Coordinator to submit work late due to illness or absence. This remains up to Coordinator discretion.

D. Attendance Policy: EMSP 2444 adheres to the CTC attendance policy published in the CTC catalog. In addition: Students must confer with the Course Coordinator following the 3rd absence and may be dropped after the 4th absence.

E. Office Hours: The program coordinator keeps office hours for the purpose of conferring with students. Students are encouraged to make appointments with instructors to discuss their needs and/or problems related to EMSP 2444. Please go though the secretary to be announced.

F. Academic Integrity: EMSP 2444 adheres to the CTC academic integrity policy published in the CTC catalog. EMSP 2444 students are expected to abide by this policy. In EMSP 2444 falsification of attendance records and/or clinical records is considered a violation of academic integrity.

V. EXAMINATIONS
There will be three (3) online examinations, excluding the final exit competency, for this course. There will also be three (3) Navigate Test Prep Exams Due.

Attendance at Examinations: Students will take all exams at the testing center, outlined by the student handbook, on the assigned date. Any student who scores 75% or less on an exam shall receive an academic counseling that will be placed and kept in student file. If absent from class on the date of the examination, the student will have 72 hours to complete the exam online in the testing center located at CTC central campus Bld. 111. Any exam that is not completed by the deadline date will automatically turn to a zero (0) in the gradebook.

Should the student not be successful on either Exit Competency, or both, they will have one (1) retest for each component that must be completed within 5 college business days. Should the student fail any of the retests, the student will receive a failing grade for the course and will not be eligible for progression to the next semester.

The Admissions and Standards Committee will meet to determine future eligibility and re-enrollment into the CTC EMS Programs.

Should the student be eligible to re-admit, they will be required to re-enroll in all of the stated courses located in the course syllabus. All Exit Competencies have been approved by the EMS Program Medical Director and are final. Tests may be determined by cut score of each individual exam per course per student group per attempt, or by standard
grading criteria. Final programmatic status is determined by the EMS Admissions and Standards Committee.

VI. SEMESTER GRADE COMPUTATIONS

1. Affective domain measures the student’s attitudes, behaviors, and professional attributes, as well as classroom conduct. Passing is appropriate classroom behavior, professional ethics, and adherence to policy. Breaches will result in student conference. Significant behavioral issues may result in failure of the affective domain. In most cases a written warning and time period for improvement will be given before assigning a failing grade. However, in cases where the behavior is significantly unacceptable, egregious, or poses a threat to the well being of others, the posting of a failing grade may be immediate and without warning.

Students will be graded on a decreasing scale. Each student begins each semester with an Affective grade of 100%. As the course progresses, points will be deducted for each attendance issue (absence, tardy or leaving early), uniform issue, participation issue, or professionalism issue. Students must have a grade of 80% or better to earn a passing Affective grade.

VII. NOTES AND ADDITIONAL INSTRUCTIONS FROM COURSE INSTRUCTOR

A. Course Withdrawal: (Consistent with CTC policy)

B. Administrative Withdrawal: (Consistent with CTC policy)

C. Cellular Phones and Beepers: Cellular phones and beepers will be turned off while the student is in the classroom or laboratory.

D. Incomplete Grade: (Consistent with CTC policy)

E. American’s with Disabilities Act (ADA): Disability Support Services provide services to students who have appropriate documentation of a disability. Students requiring accommodations for class are responsible for contacting the Office of Disability Support Services (DSS) located on the central campus. This service is available to all students, regardless of location. Explore the website at www.ctcd.edu/disability-support for further information. Reasonable accommodations will be given in accordance with the federal and state laws through the DSS office.

F. Civility: Individuals are expected to be cognizant of what a constructive educational experience is and respectful of those participating in a learning environment. Failure to do so can result in disciplinary action up to and including expulsion. Minimal civility includes:
1. Being in class on time; 
2. Staying in class for the entire class period; 
3. Leaving early occurs only after informing the teacher, prior to class, of an unavoidable conflict requiring your early departure (if possible, position yourself close to the door for a minimum disruption to the class); 
4. Avoiding such uncivil conduct as talking, sleeping, reading papers/magazines, or working on some other class homework assignment; and 
5. Using socially acceptable language in classroom discussion. 

G. **Office Hours:** The program coordinator keeps office hours for the purpose of conferring with students. Students are encouraged to make appointments with instructors to discuss their needs and/or problems related to EMSP 2444. Please go through the secretary to be announced. 

H. **Refund:** (Consistent with CTC policy) 

I. **Instructor Discretion:** The instructor reserves the right of final decision in course requirements. 

**VIII. COURSE OUTLINE**

- Anatomy and Physiology of the Heart 
- Electrophysiology of the Heart 
- Assessment of the Cardiac Patient 
- ECG Monitoring 
- ECG Interpretation 
- Dysrhythmias 
- Cardiac Pharmacology 
- Cardiovascular Diseases 
- Managing Cardiac Emergencies