

Degree Description

The Paramedicine Program is designed to prepare students for a career in emergency medical services. Students successfully completing the eighteen month program will be eligible to take the National Registry examination and apply to the Texas Department of State Health Services for Paramedic certification.

Regular admission to the college is required. Contact the program director for more information. If development courses are needed for Texas Success Initiative requirements, it is recommended such courses be completed before enrolling in the program.

McLennan Community College is accredited by the Commission on Accreditation of Allied Health Education Programs (www.caahep.org) upon the recommendation of the Committee on Accreditation of Educational Programs for the Emergency Medical Services Professions (CoAEMSP).

To contact CoAEMSP: 8301 Lakeview Parkway Suite 111-312 Rowlett, TX 75088 214-703-8445 FAX 214-703-8992 www.coaemsp.org

Marketable Skills 1.The ability to communicate with affirming words and empathy while remaining calm and demonstrating competence.

2.Ability to triage during an emergency care need.

3.Determining the proper care to patients. 4.Function in team settings to accomplish goals and tasks.

Program Prerequisites

These courses are recommended prerequisites.

BIOL 2404 Anatomy & Physiology (specialized)	4 hours
HPRS 1206 Essentials of Medical Terminology	2 hours
PSYC 1100 Learning Framework	1 hours

Total prerequisite hours: 7 hours

Semester I	Hours
EMSP 1438 Introduction to Advanced Practice	4 hours
EMSP 1161 Clinical - Emergency Medical Technology/Technician - Intermediate I	1 hours
EMSP 1455 Trauma Management	4 hours
EMSP 1456 Patient Assessment and Airway Management	4 hours
EMSP 2137 Emergency Procedures	1 hours
	14 hours

Summer Semester	Hours
EMSP 2434 Medical Emergencies	4 hours
EMSP 2306 Emergency Pharmacology	3 hours
	7 hours

Semester II	Hours
EMSP 2444 Cardiology	4 hours
EMSP 2430 Special Populations	4 hours
EMSP 2237 Emergency Procedures	2 hours
EMSP 2305 EMS Operations	3 hours
EMSP 2164 Practicum/Field Experience-Emergency Medical Technology/Tech	1 hours
EMSP 2162 Clinical - Emergency Medical Technology/Technician	1 hours
	15 hours

Semester III	Hours
EMSP 2268 Practicum/Field Experience	2 hours
	2 hours

Summer Semester	Hours
EMSP 2243 Assessment Based Management	2 hours
	2 hours

Total hours: 40 hours

Course Descriptions

BIOL 2404 Anatomy & Physiology (specialized)

Study of the structure and function of human anatomy, including the neuroendocrine, integumentary, musculoskeletal, digestive, urinary, reproductive, respiratory, and circulatory systems. Content may be either integrated or specialized. Semester Hours 4 (3 lec/3 lab)

HPRS 1206 Essentials of Medical Terminology

A study of medical terminology, word origin, structure, and application. Semester Hours 2 (2 lec)

PSYC 1100 Learning Framework

A study of the 1) research and theory in the psychology of learning, cognition, and motivation, 2) factors that impact learning, and 3) application of learning strategies. Theoretical models of strategic learning, cognition, and motivation serve as the conceptual basis for the introduction of college-level student academic strategies. Students use assessment instruments (e.g., learning inventories) to help them identify their own strengths and weaknesses as strategic learners. Students are ultimately expected to integrate and apply the learning skills discussed across their own academic programs and become effective and efficient learners. Students developing these skills should be able to continually draw from the theoretical models they have learned. (Cross-listed as EDUC 1100.) Semester Hour 1 (1 lec)

EMSP 1438 Introduction to Advanced Practice

Explores the Fundamental elements associated with emergency medical services to include preparatory practices, pathophysiology, medication administration, and related topics necessary for mastery of the advanced topics of clinical practice in and out of the hospital. Scenarios, case studies, and simulations included in this course assist the student to develop critical thinking skills that can be applied in simulated pre-hospital care environments. Prerequisites: Current Texas EMT certification. Must contact EMS/Paramedicine program director to be advised on immunization details, application processes, and deadlines. Corequisites: EMSP 1456, 2137, 1455, and 1161. Semester Hours: 4 (3 lec/2 lab)

EMSP 1161 Clinical - Emergency Medical Technology/Technician - Intermediate I

Provides hospital clinical and pre-hospital work-based learning experiences with the supervision of a qualified preceptor. Students interact directly with patients, family members, and hospital and pre-hospital employees and assist in the provision of care and services. Students complete 40 hours of ambulance ride-outs and 25 hours of emergency department experience and record all activities on detailed forms that are reviewed, approved, and submitted to the course instructor. Student documentation of patient care and procedures completed or assisted with are maintained in the student's file. On-site clinical instruction, supervision, evaluation, and placement are the responsibility of the college faculty. Clinical experiences are unpaid external learning experiences. Includes hospital setting for Basic level. Prerequisites: Current Texas EMT Certification, HPRS 1206, BIOL 2404, and acceptable TSI Assessment scores. Must contact EMS/Paramedicine program director to be advised on immunization details, application process, and deadlines. Corequisites: EMSP 1162, 1173, 1438, 1455, 1456, and 2271. Semester Hour 1 (6 clinical hours/week)

EMSP 1455 Trauma Management

Studies the knowledge and skills necessary to reach competency in the assessment and management of patients with traumatic injuries. Scenarios, case studies, and simulations included in this course assist the student to develop critical thinking skills in assessing and assisting with the treatment of patients with traumatic injuries. Prerequisites: Current Texas EMT Certification, HPRS 1206, BIOL 2404, and acceptable TSI Assessment scores. Must contact EMS/Paramedicine program director to be advised on immunization details, application process, and procedures. Corequisites: EMSP 1161, 1162, 1173, 1438, 1456, and 2271. Semester Hours 4 (3 lec/2 lab)

EMSP 1456 Patient Assessment and Airway Management

Studies the knowledge and skills required to perform patient assessment, airway management, and artificial ventilation to reach competency in the assessment and management of patients with airway disease or injury. Scenarios, case studies, and simulations included in this course assist the student to develop critical thinking skills in assessing and assisting with the treatment of patients with airway injuries or acute respiratory illnesses. Prerequisites: Current Texas EMT certification. Must contact EMS/Paramedicine program director to be advised on immunization details, application processes, and deadlines. Corequisites: EMSP 1438, 2137, 1455, and 1161 Semester Hours: 4 (3 lec/2 lab)

EMSP 2137 Emergency Procedures

Application of emergency medical procedures. This course was designed to be repeated multiple times to improve student proficiency. Instruction conducted in a laboratory environment concentrating on practical skills and critical thinking abilities. Topics include a variety of skills appropriate to the student's training level. Required verification of specific skills may be included. Prerequisites: Students must have current Texas EMT certification; successful completion of BIOL 2404 and HPRS 1206. Semester Hours 1 (2 lab)

EMSP 2434 Medical Emergencies

A detailed study of the knowledge and skills in the assessment and management of patients with medical emergencies, including medical overview, neurology, gastroenterology, immunology, pulmonology, urology, hematology, endocrinology, toxicology, and other related topics. Prerequisites: Current Texas EMT Certification, HPRS 1206, BIOL 2404, EMSP 1161, 1162, 1438, 1455, 1456, 2161, 2338, and 2348. Must have acceptable TSI Assessment scores. Must contact EMS/Paramedicine program director to be advised on immunization details, application process, and deadlines. Corequisites: EMSP 1173, 2162, 2163, 2271, 2430, and 2444. Semester Hours 4 (3 lec/2 lab)

EMSP 2306 Emergency Pharmacology

A study of drug classifications, actions, therapeutic uses, adverse effects, routes of administration, and calculation of dosages. Prerequisites: Successful completion of EMSP 1161, 1438, 1455, 1456, and 2137. Students must have current Texas EMT certification. Semester Hours: 3 (2 lec/2 lab)

EMSP 2444 Cardiology

Assessment and management of patients with cardiac emergencies. Includes single and multi-lead ECG interpretation. Prerequisites: Current Texas EMT Certification, HPRS 1206, BIOL 2404, EMSP 1161, 1162, 1438, 1455, 1456, 2161, 2338, and 2348. Must have acceptable TSI Assessment scores. Must contact EMS/Paramedicine program director to be advised on immunization details, application process, and deadlines. Corequisites: EMSP 1173, 2162, 2163, 2271, 2430, and 2434. Semester Hours 4 (3 lec/3 lab)

EMSP 2430 Special Populations

Knowledge and skills necessary to assess and manage ill or injured patients in diverse populations. A detailed study of the considerations and challenges that must be addressed in order to competently provide emergency care to patients who are from nontraditional populations. This course provides essential information needed to develop a plan of care for neonatal, pediatric, gynecologic, obstetric, geriatric, psychiatric, chronically ill, and/or otherwise diverse patients. Prerequisites: Current Texas EMT Certification, HPRS 1206, BIOL 2404, EMSP 1161, 1162, 1438, 1455, 1456, 2161, 2338, and 2438. Must have acceptable TSI Assessment scores. Must contact EMS/Paramedicine program director to be advised on immunization details, application process, and deadlines. Corequisites: EMSP 1173, 2162, 2163, 2271, 2434, and 2444. Semester Hours 4 (3 lec/3 lab)

EMSP 2237 Emergency Procedures

Application of emergency medical procedures. This course was designed to be repeated multiple times to improve student proficiency. Instruction conducted in a laboratory environment concentrating on practical medical skills and critical thinking abilities. Topics include a variety of skills appropriate to the student's training level. Required verifications of specific skills may be included. Prerequisites: Must have current Texas EMT certification. Successful completion of BIOL 1404, HPRS 1206, EMSP 1438, EMSP 1456, EMSP 2137, EMSP 1455, EMSP 1161, EMSP 2434, and EMSP 2348. Semester Hours 2 (6 clinical hrs/wk)

EMSP 2305 EMS Operations

A detailed study of the knowledge and skills needed to safely manage multi-casualty incidents and rescue situations; utilize air medical resources; identify hazardous materials and other specialized incidents to safely manage the scene of an emergency. Prerequisites: Successful completion of EMSP 1161, 1438, 1455, 1456, and 2137. Students must have current Texas EMT certification. Semester Hours: 3 (2 lec/2 lab)

EMSP 2164 Practicum/Field Experience-Emergency Medical Technology/Tech

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct Supervision is provided by the clinical professional. Prerequisites: Student must have current EMT certification; successful completion of BIOL 2404, HPRS 1206, EMSP 1438, 1456, 2137, 1455, 1161, 2434, and 2348. Semester Hours 1 (7 clinical hrs/wk)

EMSP 2162 Clinical - Emergency Medical Technology/Technician

Provides hospital clinical and pre-hospital work-based learning experiences with the supervision of a qualified preceptor. Students interact directly with patients, family members, and hospital and pre-hospital employees and assist in the provision of care and services. Students complete 85 hours of ambulance ride-outs and 25 hours of emergency department experience and record all activities on detailed forms that are reviewed, approved and submitted to the course instructor. Student documentation of patient care and procedures completed or assisted with are maintained in the student's file. On-site clinical instruction, supervision, evaluation and placement are the responsibility of the college faculty. Clinical experiences are unpaid external learning experiences. Includes hospital setting for Advanced level. Prerequisites: Current Texas EMT Certification, HPRS 1206, BIOL 2404, EMSP 1161, 1162, 1438, 1455, 1456, 2161, 2338 and 2348. Must have acceptable TSI Assessment scores. Must contact EMS/Paramedicine program director to be advised on immunization details, application process and deadlines. Corequisites: EMSP 1173, 2163, 2271, 2430, 2434, and 2444. Semester Hours 1 (5 clinical hours/week)

EMSP 2268 Practicum/Field Experience

Practical, general EMS workplace training supported by an individualized learning plan developed by the employer, college and student. Prerequisites: Must have current EMT certification. Successful completion of BIOL 2404, HPRS 1206, EMSP 1438, EMSP 1456, EMSP 2137, EMSP 1455, EMSP 1161, EMSP 2434, EMSP 2348, EMSP 2164, and EMSP 2162. Semester Hours 2 (14 clinical hrs/wk)

EMSP 2243 Assessment Based Management

A summarative experience covering comprehensive, assessment-based patient care management for the paramedic level. Assessment and management of patients with cardiac emergencies. Includes single and multi-lead ECG interpretation. Prerequisites: Must have current EMT certification. Successful completion of BIOL 2404, HPRS 1206, EMSP 1438, EMSP 1456, EMSP 2137, EMSP 1455, EMSP 1161, EMSP 2434, EMSP 2348, EMSP 2164, EMSP 2162, and EMSP 2268. Semester Hours 2 (5 lab)
