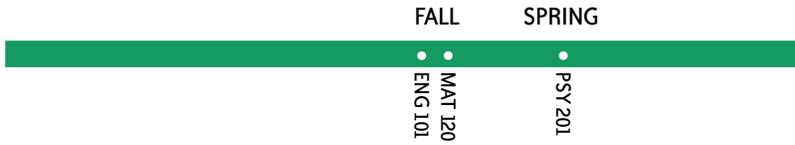




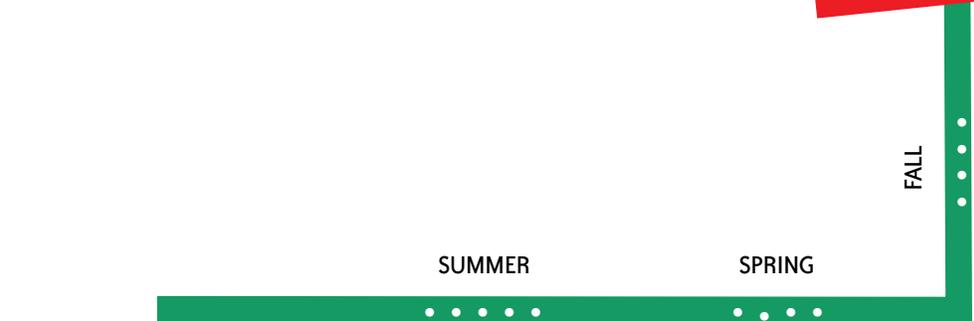
CAREER PATHWAYS FOR SUCCESS

A DUAL ENROLLMENT CAREER PATHWAY FOR EMERGENCY MEDICAL TECHNOLOGY

12th Grade:



High School Graduation
WITH 9 HOURS COLLEGE CREDIT



FALL: BIO 112, EMS 110, EMS 212, SPC 205

EMERGENCY MEDICAL TECHNOLOGY ASSOCIATE IN APPLIED SCIENCE DEGREE

EXIT NOW
Annually
MEDIAN
\$32,167

Graduate from High School with 9 hours of college credit

- Take your dual enrollment courses at one of TCTC's campuses alongside college students or at a college site in your school district.
- Get a head start on general education courses while in high school to reduce your course load in college.
- After high school, take your EMT program courses at the TCTC Easley Campus
- Upon completion of the EMT degree, become a Paramedic by passing the National Registry of EMTs certification exam.
- There are currently 2,075 EMT and Paramedics employed in a 50-mile radius of Tri-County Technical College.
- It is projected that over 300 new EMT/Paramedics will be employed by 2028, a 15% increase in the number of currently employed EMT/Paramedics in the local area.



TRI-COUNTY TECHNICAL COLLEGE CONTACT:
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COURSE DESCRIPTIONS

The Emergency Medical Technology – Paramedic program is designed to prepare competent entry level Emergency Medical Technician – Paramedics for careers in the emergency medical profession. First-responders are dispatched via ambulance service or fire department to the scene of the emergency, assess the situation, and if necessary, order additional help.

BIO 112 - Basic Anatomy and Physiology

Class Hours: 4 Lab Hours: 2 Credit Hours: 4

This course is a basic integrated study of the structure and function of the human body. Topics include the anatomy and physiology of cells, tissues, organs, and systems. Laboratory requirement supplements lecture.

Prerequisites: Completion of BIO 105 with a grade of C or better recommended.

Note: Credit may not be earned for both BIO 112 and BIO 210.

This course will not satisfy any Associate of Science requirements.

CPT 170 - Microcomputer Applications

Class Hours: 3 Lab Hours: 0 Credit Hours: 3

This course introduces microcomputer applications software, including word processing, databases, spreadsheets, graphs, and their integration.

Note: Reading placement scores satisfactory for ENG 100 or ENG 155 is strongly recommended.

EMS 110 - Emergency Medical Technician

Class Hours: 3 Lab Hours: 6 Credit Hours: 5

This is an introductory course to the health care system and the function, role, and responsibility of emergency medical providers within the system. Emphasis is placed on legal and ethical practices and stress management. A team approach is emphasized in the study of the initial assessment and management of illness and injury.

EMS 111 - Advanced Emergency Care

Class Hours: 3 Lab Hours: 6 Credit Hours: 5

This course is a study of the concepts and skills related to general patient assessment, initial management of life threatening emergencies, airway management, pulmonary ventilation and oxygen administration, the pathophysiology of shock and treatment modalities for the shock syndrome, and pharmacological actions of groups of drugs and fluids. Emphasis is placed on administration of medication and fluid therapy, basic vehicle extrication, and rescue.

EMS 115 - International Trauma Life Support

Class Hours: 0.5 Lab Hours: 1.5 Credit Hours: 1

This course is designed to educate the experienced pre-hospital healthcare provider in dealing with critically injured trauma patients in an emergency setting. An understanding of trauma care equipment, basic trauma-related and assessment skills are necessary. Currently accepted guidelines for international trauma care will be followed.

EMS 116 - Advanced Cardiac Life Support

Class Hours: 0.5 Lab Hours: 1.5 Credit Hours: 1

This course is designed to educate the experienced healthcare provider in dealing with critical cardiac patients in an acute, emergency setting. An understanding of cardiac equipment, basic pharmacology and cardiovascular function is necessary. Current American heart association guidelines will be followed.

EMS 117 - Pediatric Advanced Life Support

Class Hours: 0.5 Lab Hours: 1.5 Credit Hours: 1

This course is designed to educate the experienced healthcare provider in dealing with critical pediatric patients suffering from acute cardiac and respiratory problems in an emergency setting. An understanding of cardiac equipment, basic pharmacology and cardiovascular function is necessary.

EMS 118 - Advanced Medical Life Support

Class Hours: 0.5 Lab Hours: 1.5 Credit Hours: 1

This course is designed to present students with a practical method for the management of adult patients suffering from

various medical emergencies. Students will be provided with the practical knowledge and skills to effectively manage on-scene, adult medical emergencies.

EMS 119 - Emergency Medical Services Operations

Class Hours: 2 Lab Hours: 0 Credit Hours: 2

This course is a multi-faceted approach to theory of EMS operations. Topics include expanded provider roles, EMS systems overview, medical/legal aspects, theory of ambulance operations, mass casualty incident management, rescue awareness, crime scenes, terrorism, and weapons of mass destruction.

EMS 120 - Pharmacology

Class Hours: 3 Lab Hours: 0 Credit Hours: 3

This course is a study of concepts related to the pharmacological actions of groups of drugs and includes the development of skills related to the administration of medications and intravenous therapy. Physiology of systems affected drug action is also included in the course.

EMS 210 - Advanced Emergency Medical Care I

Class Hours: 4 Lab Hours: 3 Credit Hours: 5

This course is a study of emergency medical care procedures for the paramedic provider. It is designed to cover topics related to the preparation of a paramedic, the human body and body systems, operations and patient assessment. This course includes compressed content from EMS 213.

EMS 211 - Advanced Clinical Experience I

Class Hours: 1 Lab Hours: 6 Credit Hours: 3

This course includes hospital clinical experiences in obstetrics (labor/delivery), pediatrics, and emergency/trauma settings.

EMS 212 - EMS Field Internship

Class Hours: 0 Lab Hours: 6 Credit Hours: 2

This course includes experiences with advanced life support emergency medical services.

EMS 213 - Advanced Emergency Medical Care II

Class Hours: 3 Lab Hours: 3 Credit Hours: 4

This course is a study of concepts related to EMS communications, trauma, obstetric/gynecological emergencies, neonatal transport, psychiatric emergencies, central nervous system, GI/GU systems, anaphylaxis, toxicologic emergencies, drug abuse, infectious diseases, geriatric and pediatric patients, and environmentally related emergencies.

EMS 214 - Advanced Clinical Experience II

Class Hours: 1 Lab Hours: 6 Credit Hours: 3

This course includes hospital clinical experiences in coronary care and emergency and trauma settings.

EMS 217 - Introduction to Electrocardiography

Class Hours: 1 Lab Hours: 3 Credit Hours: 2

This course covers the basic principles of recognizing and interpreting EKG tracings. Laboratory emphasis is placed on the operation of electrocardiographic equipment.

EMS 218 - EMS Management Seminar

Class Hours: 2 Lab Hours: 0 Credit Hours: 2

This course covers concepts related to the application of management skills to emergency medical services. Focus is on common problems which occur in the work setting utilizing a problem solving approach.

EMS 219 - Advanced EMS Field Internship II

Class Hours: 0 Lab Hours: 6 Credit Hours: 2

This course builds in the knowledge and skills of advanced emergency medical practice in the pre-hospital environment. Focus is on situations involving complex patient problems including trauma, surgical and medical emergencies and the treatment modalities.

EMS 220 - Paramedic Internship I

Class Hours: 0 Lab Hours: 9 Credit Hours: 3

This course includes experiences with advanced life support emergency medical service providers.

EMS 221 - Paramedic Internship II

Class Hours: 0 Lab Hours: 9 Credit Hours: 3

This course builds on the experiences gained in Paramedic Internship I. Focus is on the student and their ability to apply knowledge gained in the classroom during an emergency situation while treating a wide variety of patients in different situations.

EMS 222 - Paramedic Internship III

Class Hours: 0 Lab Hours: 9 Credit Hours: 3

This course builds on the experiences gained in Paramedic Internship II. Focus is centered on the student's ability to function as the EMS team leader and direct patient care in any emergency situation.

EMS 270 - NREMT Review

Class Hours: 2 Lab Hours: 6 Credit Hours: 4

This course provides the opportunity to practice and demonstrate proficiency in all of the required National Registry of Emergency Medical Technician (NREMT) skill stations.

ENG 101 - English Composition I

Class Hours: 3 Lab Hours: 0 Credit Hours: 3

This is a (college transfer) course in which the following topics are presented: a study of composition in conjunction with appropriate literary selections, with frequent theme assignments to reinforce effective writing. A review of standard usage and the basic techniques of research are also presented.

Prerequisites: Satisfactory placement scores in both Reading and Writing.

MAT 120 - Probability and Statistics

Class Hours: 3 Lab Hours: 0 Credit Hours: 3

This course includes the following topics: introductory probability and statistics, including organization of data; sample space concepts; random variables; counting problems; binomial and normal distributions; central limit theorem; confidence intervals and test hypothesis for large and small samples; types I and II errors; linear regression and correlation.

Prerequisites: Satisfactory math placement score; or MAT 102 with a grade of C or above, or MAT 101 with a grade of A.

PSY 201 - General Psychology

Class Hours: 3 Lab Hours: 0 Credit Hours: 3

This course includes the following topics and concepts in the science of behavior: scientific method, biological bases for behavior, perception, motivation, learning memory, development, personality, abnormal behavior, therapeutic techniques, and social psychology.

Prerequisites: Reading and writing placement scores for ENG 101 or completion of ENG 100, ENG 101, or ENG 155 with a grade of C or higher. BIO 101 strongly recommended.

SPC 205 - Public Speaking

Class Hours: 3 Lab Hours: 0 Credit Hours: 3

This course is an introduction to principles of public speaking with application of speaking skills.

Prerequisites: A grade of C or higher in ENG 101 or in ENG 103 or in ENG 155 or in ENG 156.