

## Program Number 10-531-2 Associate Degree in Applied Science • Four Terms

### ABOUT THE PROGRAM

A Firefighter Paramedic (Fire Medic) protects life and property through fire suppression, rescue, prevention, and emergency medical treatment capabilities. Graduates are highly trained in the modern firefighting techniques and Paramedic skills necessary to make them successful in the dynamic emergency services environment.

### PROGRAM OUTCOMES

- Perform essential firefighting and paramedic skills for life safety, incident stabilization, and property conservation.
- Create and execute the objectives of an incident action plan for the diverse emergency incident to be encountered.
- Use effective interpersonal communication skills in emergency and nonemergency environments.
- Apply the critical skills of fire prevention, fire investigation, fire inspection, and public education to minimize the loss of life and property.
- Operate fire service equipment and apparatus effectively and efficiently.

### CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit [gotoltc.edu/future-students/transfer](http://gotoltc.edu/future-students/transfer).

### ADMISSION TO DO'S

- Work with Career Coach to:
  - Submit application and \$30 fee.
  - Submit official transcripts (high school and other colleges).
  - Complete background check and \$20 processing fee.

### PROGRAM TO DO'S

- Work with Academic Advisor to:
  - Complete an assessment for placement (Accuplacer or ACT).
  - Complete health requirements.
  - Discuss EMT license requirements.
  - Complete Functional Abilities Statement of Understanding form.
  - Complete DMI (District Mutual Insurance) form.
  - Meet to plan your first semester schedule, review your entire plan of study, discuss placement assessment results and complete Program To Do's.

### APPROXIMATE COSTS

- \$136.50 per credit tuition (WI resident) plus \$7.38 per credit student activity fee. \$10 per credit online fee. Material fee varies depending on course. Other fees vary by program. Visit [gotoltc.edu/financial-aid/tuition-and-fees](http://gotoltc.edu/financial-aid/tuition-and-fees) for details.

### FINANCIAL AID

This program is eligible for financial aid. Visit [gotoltc.edu/Financial-Aid](http://gotoltc.edu/Financial-Aid) or talk with your Career Coach about how to apply for aid.

### SPECIAL NOTE

- The Lakeshore Technical College Paramedic Program is accredited by the Commission on Accreditation of Allied Health Education Programs ([www.caahep.org](http://www.caahep.org)) upon the recommendation of the Committee on Accreditation of Educational Programs for the Emergency Medical Services Professions (CoAEMSP). 25400 US Highway 19 N., Suite 158, Clearwater, FL 33756. Phone: 727-210-2350. Web: [www.caahep.org](http://www.caahep.org).
- Students will be required to acquire a Wisconsin Commercial Driver's Instructional Permit during the Fire Apparatus Engineer course.

### CONTACT

LTC Career Coach  
920.693.1162 • [CareerCoach@gotoltc.edu](mailto:CareerCoach@gotoltc.edu)

Catalog No.	Class Title	Credit(s)
<b>Term 1 (Spring Start)</b>		
10503145	Firefighting Principles 1	2
10503146	Firefighting Principles 2	2
10503911	Company Level Inspections	2
10801195	Written Communication	3
10809198	Introduction to Psychology	3
		<b>12</b>
<b>Term 2</b>		
10503107	Fire Apparatus Engineer	3
10503144	Advanced Firefighting Concepts	2
10801196	Oral/Interpersonal Communication	3
10806189	Basic Anatomy	3
10809166	Introduction to Ethics	3
		<b>14</b>
<b>Term 3</b>		
10531911	EMS Fundamentals	2
10531912	Paramedic Medical Principles	4
10531913	Advanced Patient Assessment Principles	3
10531914	Advanced Prehospital Pharmacology	3
10531915	Paramedic Respiratory Management	2
10531916	Paramedic Cardiology 1	1
10531926	Paramedic HPS Lab 1	1
10531930	Paramedic Clinical 1	1
		<b>17</b>
<b>Summer</b>		
10531918	Advanced Emergency Resuscitation	1
10531922	EMS Operations	1
10531920	Paramedic Trauma	3
10531928	Paramedic Clinical 2	2
10531927	Paramedic HPS Lab 2	1
10531932	Paramedic Cardiology 2	3
		<b>11</b>
<b>Term 4</b>		
10531919	Medical Emergencies	4
10531921	Special Patient Populations	3
10531923	Paramedic Capstone	1
10531929	Paramedic Field Clinical	2
10531931	Paramedic Internship	1
10531933	Paramedic HPS Lab 3	1
		<b>12</b>
		<b>TOTAL 66</b>

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Rowlett, TX 75088  
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[www.coaemsp.org](http://www.coaemsp.org)

*Curriculum and Program Acceptance requirements are subject to change. Program start dates vary; check with your advisor for details. The tuition and fees are approximate based on 2019-2020 rates and are subject to change prior to the start of the academic year.*



**ADVANCED EMERGENCY RESUSCITATION**...provides ACLS and PALS knowledge and skills preparing the student in the integration of comprehensive knowledge of causes and pathophysiology into the management of shock, respiratory failure, respiratory arrest, cardiac arrest, and peri-arrest with intervention to prevent respiratory and/or cardiac arrest if possible. CONDITION: 105311 Paramedic Technician or 315311 EMT Paramedic or 105312 Fire Medic program requirements met and COREQUISITE: 10531916 Paramedic Cardiology

**ADVANCED FIREFIGHTING CONCEPTS**...advances previously learned concepts to build a stronger foundation while exposing the learner to new concepts such as vehicle extrication, technical rescue, flammable liquids fire suppression, and team leadership/management. This course meets the requirements of NFPA 1001 for the Firefighter II level. PREREQUISITE: 10503142 Firefighting Principles

**ADVANCED PATIENT ASSESSMENT PRINCIPLES**...provides knowledge of scene and patient assessment findings with knowledge of epidemiology and pathophysiology to form a field impression. CONDITION: 105311 Paramedic Technician or 315311 EMT Paramedic or 105312 Fire Medic program requirements met and COREQUISITE: 10531912 Paramedic Medical Principles

**ADVANCED PREHOSPITAL PHARMACOLOGY**...provides student with comprehensive knowledge of pharmacology required to formulate and administer a pharmacological treatment plan intended to mitigate emergencies and improve the health of the patient. CONDITION: 105311 Paramedic Technician or 315311 EMT Paramedic or 105312 Fire Medic program requirements met and COREQUISITE: 10531913 Advanced Patient Assessment Principles

**BASIC ANATOMY**...examines concepts of anatomy and physiology as they relate to health careers. Learners correlate anatomical and physiological terminology to all body systems. COREQUISITE: 10838105 Intro Reading and Study Skills or Reading placement assessment equivalent

**COMPANY LEVEL INSPECTIONS**...familiarizes the students with state and local regulations and national codes relating to fire prevention. The course requires the completion of actual inspections and fire safety presentations. Presents the necessary information for performing company level fire inspections.

**EMS FUNDAMENTALS**...provides comprehensive knowledge of EMS systems, safety, well-being, legal issues and ethical issues with intended outcome of improving EMS personnel, patients and the community. CONDITION: 105311 Paramedic Technician or 315311 EMT Paramedic or 105312 Fire Medic program requirements met and COREQUISITES: 10531102 EMT Basic or 30531301 EMT Part 1

**EMS OPERATIONS**...provides the knowledge of operational roles and responsibilities to ensure patient, public and EMS personnel safety. CONDITION: 105311 Paramedic Technician or 315311 EMT Paramedic or 105312 Fire Medic program requirements met and COREQUISITE: 10531918 Advanced Emergency Resuscitation

**FIRE APPARATUS ENGINEER**...prepares firefighters to drive and operate fire department emergency apparatus. The course presents theories of hydraulics applied to the fire service, with emphasis on mathematics, and formulas used in operating fire apparatus pumps. Students receive lecture and practical training on maintenance, driving, operating on-board pumps and equipment, and apparatus testing. The course content meets the NFPA 1002 requirement for fire department pumper driver/operator. THIS COURSE REQUIRES STUDENTS TO HAVE A CDL INSTRUCTIONAL PERMIT BY THE 3RD WEEK OF CLASS. PREREQUISITE: 10503142 Firefighting Principles

**FIREFIGHTER PRINCIPLES PART 1**...builds the foundation for a successful firefighting career. Topics presented will include personal protective equipment, firefighter safety, search and rescue, forcible entry, hoselines, awareness of hazardous materials, nozzles, salvage and overhaul, ground ladders, and entry level interior and exterior firefighting. Students successfully completing this course will meet the Wisconsin requirements for an entry level firefighter

**FIREFIGHTER PRINCIPLES PART 2**...advances on the foundations presented in Part 1. Students will acquire the remaining job performance requirements to meet National Firefighter Level I qualifications. Topics will include: history of the fire service, ropes and knots, advanced forcible entry, size up and response priorities, fireground communications, hazardous materials operations, and preparation for the Firefighter Level I examination process.

**INTRODUCTION TO ETHICS: THEORY AND APPLICATION**...provides a basic understanding of the theoretical foundations of ethical thought. Diverse ethical perspectives will be used to analyze and compare relevant issues. Students will critically evaluate individual, social and/or professional standards of behavior, and apply a systematic decision-making process to these situations. COREQUISITE: 10838105 Intro Reading and Study Skills or Reading placement assessment equivalent

**INTRODUCTION TO PSYCHOLOGY**...introduces students to a survey of the multiple aspects of human behavior. It involves a survey of the theoretical foundations of human functioning in such areas as learning, motivation, emotions, personality, deviance and pathology, physiological factors, and social influences. It directs the student to an insightful understanding of the complexities of human relationships in personal, social, and vocational settings. PREREQUISITE: Reading placement assessment equivalent or COREQUISITE: 10838105 Intro to Reading and Study Skills

**MEDICAL EMERGENCIES**...provides the student the skills to integrate assessment findings with principles of anatomy, physiology, epidemiology, and pathophysiology to formulate a field impression and implement a treatment plan for an acutely injured patient. CONDITION: 105311 Paramedic Technician or 315311 EMT Paramedic or 105312 Fire Medic program requirements met and COREQUISITE: 10531918 Advanced Emergency Resuscitation

**ORAL/INTERPERSONAL COMMUNICATION**...provides students with the skills to develop speaking, verbal and nonverbal communication, and listening skills through individual speeches, group activities, and other projects. COREQUISITE: 10838105 Intro Reading and Study Skills or Reading placement assessment equivalent

**PARAMEDIC CAPSTONE**...provides the final opportunity to incorporate knowledge and skills through labs and scenario-based practice and evaluations prior to taking the NREMT written and practical exams. CONDITION: 105311 Paramedic Technician or 315311 EMT Paramedic or 105312 Fire Medic program requirements met and COREQUISITE: 10531922 EMS Operations

**PARAMEDIC CARDIOLOGY 1**...provides the principles of cardiovascular anatomy, physiology, epidemiology, and pathophysiology to formulate a field impression and a plan for a patient with a cardiovascular complaint. CONDITION: 105311 Paramedic Technician or 315311 EMT Paramedic or 105312 Fire Medic program requirements met and COREQUISITE: 10531915 Paramedic Respiratory Management

**PARAMEDIC CARDIOLOGY 2**...continues the paramedic's knowledge of cardiology. Incorporates basic and advanced electrocardiogram rhythm interpretation as well as introduces students to Advanced Cardiovascular Life Support (ACLS).

**PARAMEDIC CLINICAL 1**...allows paramedics their first experiences providing advanced level skills and assessments on patients in a healthcare setting. Students will be assigned to an area hospital to begin their clinical training and meeting their assigned clinical competencies. Activities may include rotations within hospital emergency departments, operating rooms, intensive care units, and/or rotations with lab or respiratory staff. COREQUISITE: 10531911 EMS Fundamentals and CONDITION: 15311 Paramedic Technician or 105312 Fire Medic or 315311 EMT Paramedic program admission requirements met

**PARAMEDIC CLINICAL 2**...provides student with the opportunity to enhance their learning through the skills practice in a health care environment experience with actual patients under the supervision of approved preceptors or high-fidelity human patient simulator. CONDITION: 105311 Paramedic Technician or 315311 EMT Paramedic or 105312 Fire Medic Program Requirements Met and COREQUISITE: 10531930 Paramedic Clinical 1

**PARAMEDIC FIELD CLINICAL**...provides student with the opportunity to enhance their learning through the practice in the prehospital environment with actual patients under the supervision of approved preceptors. Students will be assigned to an area Paramedic ambulance service provider to incorporate their previously acquired capabilities into prehospital patient care. CONDITION: 105311 Paramedic Technician or 315311 EMT Paramedic or 105312 Fire Medic Program Requirements Met and COREQUISITE: 10531918 Advanced Emergency Resuscitation

**PARAMEDIC HPS LAB 3**...provides instruction for continued growth for paramedic students towards mastery in patient assessment, treatment, team management, and ambulance operations during this capstone Human Patient Simulation experience.

**PARAMEDIC HUMAN PATIENT SIMULATION LAB 1**...reinforces student learning through the practice of paramedicine in a controlled environment utilizing high-fidelity human patient simulators and realistic emergency response scenarios with support and guidance of instructors. The student will apply assessment knowledge and demonstrate paramedic level skills in a variety of emergency response scenarios and environments.

**PARAMEDIC HUMAN PATIENT SIMULATION LAB 2**...reinforces student learning through the practice of paramedicine in a controlled environment utilizing high-fidelity human patient simulators and realistic emergency response scenarios with support and guidance of instructors. The student will evaluate patient presentations, formulate treatment plans, reassess interventions, and implement corrective actions by integrating pathophysiological principles and assessment findings. CONDITION: 105311 Paramedic Technician or 105312 Fire Medic or 315311 EMT Paramedic program admission requirements met

**PARAMEDIC INTERNSHIP**...demonstrates to paramedic students their team leadership capabilities while assessing, formulating treatments plans, and delegating tasks to their EMS team members. Students will be assigned to an area paramedic ambulance service to complete requirements during this capstone field internship.

**PARAMEDIC MEDICAL PRINCIPLES**...provides the knowledge of anatomy, physiology and pathophysiology of major human systems while also introducing the students to shock, immunology and bleeding. CONDITION: 105311 Paramedic Technician or 315311 EMT Paramedic or 105312 Fire Medic program requirements met and COREQUISITE: 10531911 EMS Fundamentals

**PARAMEDIC RESPIRATORY MANAGEMENT**...provides specific knowledge pertaining to the respiratory system and to ensure the student is prepared to formulate a field impression and implement a comprehensive treatment plan for a respiratory complaint. CONDITION: 105311 Paramedic Technician or 315311 EMT Paramedic or 105312 Fire Medic program requirements met and COREQUISITE: 10531914 Advanced Prehospital Pharmacology

**PARAMEDIC TRAUMA**...provides the student the skills to integrate assessment findings with principles of anatomy, physiology, epidemiology and pathophysiology to formulate a field impression and implement a treatment plan for an acutely injured patient. CONDITION: 105311 Paramedic Technician or 315311 EMT Paramedic or 105312 Fire Medic program requirements met and COREQUISITE: 10531919 Paramedic Medical Emergencies

**SPECIAL PATIENT POPULATIONS**...provides the student the skills to integrate assessment findings with principles of anatomy, physiology, epidemiology and pathophysiology to formulate a field impression and implement a treatment plan for patient with special needs. CONDITION: 105311 Paramedic Technician or 315311 EMT Paramedic or 105312 Fire Medic program requirements met and COREQUISITE: 10531920 Paramedic Trauma

**WRITTEN COMMUNICATION**...teaches the writing process, which includes prewriting, drafting, revising, and editing. Through a variety of writing assignments, the student will analyze audience and purpose, research and organize ideas, and format and design documents based on subject matter and content. Keyboarding skills are required for this course. It also develops critical reading and thinking skills through the analysis of a variety of written documents. PREREQUISITE: 10831103 Intro to College Wrtg or Writing placement assessment equivalent and COREQUISITE: 10838105 Intro Rdg & Study Skills or Reading placement assessment equivalent