

INDUSTRY AND TECHNOLOGY
Institutional (ILO), Program (PLO), and Course (SLO) Alignment

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| Program: Fire and Emergency Technology | Number of Courses: 26 | Date Updated: 09.18.2014 | Submitted by: SueEllen Warren, ext. 4519 Renee Newell, ext. 3308 |
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| ILOs | 1. Critical Thinking <i>Students apply critical, creative and analytical skills to identify and solve problems, analyze information, synthesize and evaluate ideas, and transform existing ideas into new forms.</i> | 2. Communication <i>Students effectively communicate with and respond to varied audiences in written, spoken or signed, and artistic forms.</i> | 3. Community and Personal Development <i>Students are productive and engaged members of society, demonstrating personal responsibility, and community and social awareness through their engagement in campus programs and services.</i> | 4. Information Literacy <i>Students determine an information need and use various media and formats to develop a research strategy and locate, evaluate, document, and use information to accomplish a specific purpose. Students demonstrate an understanding of the legal, social, and ethical aspects related to information use.</i> |
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SLO-PLO-ILO ALIGNMENT NOTES:

Mark boxes with an 'X' if: SLO/PLO is a major focus or an important part of the course/program; direct instruction or some direct instruction is provided; students are evaluated multiple times (and possibly in various ways) throughout the course or are evaluated on the concepts once or twice within the course.

DO NOT mark with an 'X' if: SLO/PLO is a minor focus of the course/program and some instruction is given in the area but students are not formally evaluated on the concepts; or if the SLO/PLO is minimally or not at all part of the course/program.

| PLOs | PLO to ILO Alignment <i>(Mark with an X)</i> | | | |
|--|--|---|---|---|
| | 1 | 2 | 3 | 4 |
| PLO #1 Minimum Qualifications Identify minimum qualifications and the needed entry skills for the fire fighter position. | X | | | |
| PLO #2 Analyzing, Appraising and Evaluation Fire Incidents Demonstrate the ability to analyze, appraise, evaluate fire incidents; Explain size-up, the incident command system, the 10 standard fire orders, the 18 situations that shout watch out and identify the common factors associated with injuries and deaths in the line of duty. | | X | | |
| PLO #3 Knowledge of Laws and Regulations Upon completion of the Fire and Emergency Technology program, the student will show knowledge of federal and state laws, regulations and codes pertaining to safety and efficiency in all risk emergencies and scenarios pertaining to fire, safety, and or medical services. | X | | | |

| SLOs | SLO to PLO Alignment <i>(Mark with an X)</i> | | | COURSE to ILO Alignment <i>(Mark with an X)</i> | | | |
|---|---|----|----|--|---|---|---|
| | P1 | P2 | P3 | 1 | 2 | 3 | 4 |
| FTEC 1 Fire Protection Organization: SLO #1 Career Opportunities The Student will be able to identify a minimum of three fire protection career opportunities and the skills and training needed. | X | | | X | | | |
| FTEC 1 Fire Protection Organization: SLO #2 Technical Training The student will be able to identify 5 types of technical training available for those wishing to be firefighters. | X | | | | | | |
| FTEC 1 Fire Protection Organization: SLO #3 Organizational & Administrative Structures The student will be able to identify 2 different types of fire department organizational and administrative structures. | X | | | | | | |
| FTEC 10 Hazardous Materials: SLO #1 First Responder After the course of instruction the student will be able to describe the role of the First Responder. | | X | | X | X | | |
| FTEC 10 Hazardous Materials: SLO #2 Five Flammable Liquids The student will be able to identify five flammable liquids. | X | | | | | | |
| FTEC 10 Hazardous Materials: SLO #3 Spill Containment The student will be able to identify three basic methods of spill containment. | X | | | | | | |
| FTEC 11 Arson Detection and Control: SLO #1 Investigating a Fire The student will be able to identify legal search methods and procedures to follow when investigating a fire. | X | | | X | | | |
| FTEC 11 Arson Detection and Control: SLO #2 Evidence Collection & Preservation The student will be able to identify the collection and preservation of evidence. | X | | | | | | |
| FTEC 11 Arson Detection and Control: SLO #3 Motives of Arson The student will be able to identify the various motives of arson-related fires. | X | | | | | | |
| FTEC 128 Paramedic Preparation Course: SLO #1 Blood Pressure Evaluation Given a simulated medical emergency patient, the student will be able to correctly evaluate the reasons for the patient's widening blood pressures. | | | X | X | | | |
| FTEC 128 Paramedic Preparation Course: SLO #2 Human Respiratory System The student will be able to identify the basic parts of the human respiratory system. | | | X | | | | |
| FTEC 128 Paramedic Preparation Course: SLO #3 Human Cardiovascular System The student will be able to identify the basic parts of the human cardiovascular system. | | | X | | | | |
| FTEC 130 Basic Prehospital Care Principles: SLO #1 Upper and Lower Airway Students will be able to compare and contrast the major components and functions of the upper and lower airway. | | | X | X | | | |
| FTEC 130 Basic Prehospital Care Principles: SLO #2 Physiology Students will be able to identify cellular components and relate them to fluid and electrolyte replacement. | | | X | | | | |
| FTEC 130 Basic Prehospital Care Principles: SLO #3 Nervous System Students will be able to identify structures in the nervous system. | | | X | | | | |

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|--|---|----|----|--|---|---|---|
| | P1 | P2 | P3 | 1 | 2 | 3 | 4 |
| FTEC 131 Field Assessing and Reporting: SLO #1 Primary Patient Survey Given a simulated medical emergency patient, the student will be able to successfully evaluate the components in a primary patient survey. | | | X | X | | | |
| FTEC 131 Field Assessing and Reporting: SLO #2 Secondary Patient Survey Given a simulated medical emergency patient, the student will be able to successfully evaluate the components in a secondary patient survey. | | | X | | | | |
| FTEC 131 Field Assessing and Reporting: SLO #3 Assessing & Reporting Student will be able to recognize the process in reporting patient finding to hospital staff. | | | X | | | | |
| FTEC 132 Prehospital Care Pharmacology: SLO #1 Routes for Selected Drugs Students completing this course will be able to successfully choose the routes by which selected drugs can be administrated. | | | X | X | | | |
| FTEC 132 Prehospital Care Pharmacology: SLO #2 Pharmacology Students at the end of this course will be able to identify pertinent drug therapy and the actions, interactions and adverse effects of drugs. | | | X | | | | |
| FTEC 132 Prehospital Care Pharmacology: SLO #3 IV Therapy Students will be able to locate proper IV sites and perform IV techniques in a skills demonstration. | | | X | | | | |
| FTEC 133 Basic and Advanced Life Support: SLO #1 Obstructed Airways Students completing this course will evaluate the most common reasons for an obstructed airway, and will describe the appropriate action(s) to clear the airway. | | | X | X | | | |
| FTEC 133 Basic and Advanced Life Support: SLO #2 ECG Students will be able to identify and label cardiac dysrhythmias as they relate to the location of the irritability within the myocardium. | | | X | | | | |
| FTEC 133 Basic and Advanced Life Support: SLO #3 BLS Students will complete an AHA course in BLS for Healthcare Providers learning the latest methods for administering CPR. | | | X | | | | |
| FTEC 134 Medical Emergencies: SLO #1 Altered Consciousness Students completing this course will be able to successfully choose the appropriate field treatment for a patient with an altered level of consciousness. | | | X | X | | | |
| FTEC 134 Medical Emergencies: SLO #2 Endocrine Students will be able to identify endocrine emergencies and formulate a plan of care for the patient experiencing an endocrine emergency. | | | X | | | | |
| FTEC 134 Medical Emergencies: SLO #3 Cardiovascular Emergencies Students will be able to identify cardiovascular emergencies and formulate a plan of car for the patient experiencing a cardiovascular emergency. | | | X | | | | |

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| FTEC 135 Traumatic Emergencies: SLO #1 Impaled Objects Students successfully completing this course will be able to select the appropriate field treatment for an impaled object. | | | X | X | | | |
| FTEC 135 Traumatic Emergencies: SLO #2 Chest Trauma Students will be able to recognize traumatic injuries to the chest and formulate appropriate treatment plans. | | | X | | | | |
| FTEC 135 Traumatic Emergencies: SLO #3 Head & Spinal Trauma Students will be able to identify the signs and symptoms of traumatic head injuries and formulate appropriate treatment plans. | | | X | | | | |
| FTEC 136 Special Patient Emergencies: SLO #1 Stages of Labor Students completing this course will be able to successfully differentiate among the three stages of labor. | | | X | X | | | |
| FTEC 136 Special Patient Emergencies: SLO #2 Pediatrics Students at the end of this course will be able to recognize pediatric patients and identify common illnesses and injury as they relate to developmental benchmarks. | | | X | | | | |
| FTEC 136 Special Patient Emergencies: SLO #3 Elderly Student will be able to recognize differences in caring for the elderly as it relates to the pathophysiology of aging and common ailments of the elderly. | | | X | | | | |
| FTEC 137 Emergency Medical Services (EMS)/Legal Aspects/Documentation: SLO #1 Paramedic Field Reports Students successfully completing this course will categorize the information that should be included on all paramedic field reports, and will complete a field report for a medical emergency. | | | X | X | | | |
| FTEC 137 Emergency Medical Services (EMS)/Legal Aspects/Documentation: SLO #2 Policies Students completing this course will be able to identify and define pre-hospital policies and be prepared to take the county's accreditation exam. | | | X | | | | |
| FTEC 137 Emergency Medical Services (EMS)/Legal Aspects/Documentation: SLO #3 Introduction to Clinical The students will be able to prepare for clinical internship by accomplishing hospital-specific modules in regards to HIPAA and Patient Safety Goals. | | | X | | | | |
| FTEC 138 Paramedic Clinical Internship: SLO #1 Proper Lung Auscultation Students successfully completing this course will be able to compare the proper lung auscultation methods, and will demonstrate this skill. The student will then correctly interpret the findings. | | | X | X | | | |
| FTEC 138 Paramedic Clinical Internship: SLO #2 IV Insertion Under the direct observation of a licensed healthcare provider, the student will demonstrate competency in IV insertion. | | | X | | | | |
| FTEC 138 Paramedic Clinical Internship: SLO #3 Medication Administration Under the direct observation of a licensed healthcare provider, the student will demonstrate competency in medication administration. | | | X | | | | |

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| FTEC 139 Paramedic Field Internship: SLO #1 Collecting and Transmitting Medical Data Students successfully completing this course will collect, analyze, and transmit emergency medical data using a radio system. The student will then demonstrate this ability at a simulated emergency medical incident. | | | X | X | | | |
| FTEC 139 Paramedic Field Internship: SLO #2 Leadership Students, under the direct observation of a licensed paramedic, will demonstrate safe, competent patient care administered in the pre-hospital setting. | | | X | | | | |
| FTEC 139 Paramedic Field Internship: SLO #3 Documentation The student will demonstrate competency in documenting the patient care record. | | | X | | | | |
| FTEC 142ABCD Basic Emergency Medical Technician (EMT) Recertification: SLO #1 Skeletal System Students will be able to identify the 32 major bones of the skeletal system. | | | X | X | | | |
| FTEC 142ABCD Basic Emergency Medical Technician (EMT) Recertification: SLO #2 Cardiovascular System Students will be able to identify the 19 major components of the cardiovascular system. | | | X | | | | |
| FTEC 142ABCD Basic Emergency Medical Technician (EMT) Recertification: SLO #3 Respiratory System Students will be able to identify the 17 major components of the respiratory system. | | | X | | | | |
| FTEC 144 Basic Emergency Medical Technician: SLO #1 Skeletal System Students will be able to identify the 32 major bones of the skeletal system. | | | X | X | | | |
| FTEC 144 Basic Emergency Medical Technician: SLO #2 Cardiovascular System Students will be able to identify the 19 major components of the cardiovascular system. | | | X | | | | |
| FTEC 144 Basic Emergency Medical Technician: SLO #3 Respiratory System Students will be able to identify the 17 major components of the respiratory system. | | | X | | | | |
| FTEC 15 Fire Academy: SLO #1 Fire Department Organization and Culture Students will define fire department organization and culture, and the expectations of entry-level fire department personnel. | X | | | X | | | |
| FTEC 15 Fire Academy: SLO #2 Characteristics of Fire Behavior Students will recognize the characteristics of fire behavior and relate how the external influences of weather and chemicals affect it. | | | X | | | | |
| FTEC 15 Fire Academy: SLO #3 Fire Behavior and Building Construction Students will be able to relate the building construction type to its anticipated fire behavior in emergency situations. | | | X | | | | |

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| FTEC 150 Firefighter In-Service Training: SLO #1 Master Steam Appliance Student will place a master stream appliance in service. The student will choose the correct length of hose; select the required equipment; and calculate the appropriate nozzle size. | | X | | | | | |
| FTEC 150 Firefighter In-Service Training: SLO #2 Breathing Equipment The student will don a self-contained breathing apparatus within the department's specified timeframe. | X | | | X | X | | |
| FTEC 150 Firefighter In-Service Training: SLO #3 Ladders The student will select the appropriate size ladder to reach the roof of a single family residence. | | X | | | | | |
| FTEC 19 Fire Service Entrance Preparation: SLO #1 Entrance Exams Types The student will be able to identify a minimum of three types of entrance exams. | X | | | | | | |
| FTEC 19 Fire Service Entrance Preparation: SLO #2 Written Exam Proficiency The student will be able to demonstrate proficiency in completing examples of standardized fire service, entry-level written examinations. | X | | | X | X | | |
| FTEC 19 Fire Service Entrance Preparation: SLO #3 Oral Interview Skills The student will be able to demonstrate effective oral interview skills by participating in mock oral exams. | | X | | | | | |
| FTEC 2 Fire Prevention Technology: SLO #1 Historical Fire Problems The Student will be able to define the historical fire problem and progress of fire prevention in the United States. | X | | | | | | |
| FTEC 2 Fire Prevention Technology: SLO #2 Responsibility & Authority The student will be able to identify the responsibility and authority for fire prevention programs. | X | | | X | X | | |
| FTEC 2 Fire Prevention Technology: SLO #3 Fire Code Definitions The student will be able to identify definitions of the fire code and how they are applied in the fire prevention inspections. | | X | | | | | |
| FTEC 20 Fire Protection Equipment and Systems: SLO #1 Sprinkler Systems The student will be able to identify a minimum of four types of sprinkler systems. | X | | | | | | |
| FTEC 20 Fire Protection Equipment and Systems: SLO #2 Fire Extinguishers The student will be able to identify different types of fire extinguishers and their components. | X | | | X | | | |
| FTEC 20 Fire Protection Equipment and Systems: SLO #3 Fire Detection & Alarm Systems The student will be able to identify different types of fire detection and alarm systems. | X | | | | | | |
| FTEC 3 Fundamentals of Personal Fire Safety and Survival: SLO #1 Line of Duty Deaths Identify the major causes of Firefighter's Line of Duty Deaths and injuries in the United States. | X | | | | | | |
| FTEC 3 Fundamentals of Personal Fire Safety and Survival: SLO #2 Fire Equipment Safety The student will be able to describe safety and the steps necessary to safely operate various fire related equipment. | | X | | X | X | | |
| FTEC 3 Fundamentals of Personal Fire Safety and Survival: SLO #3 Fire Equipment Operation The student will be able to demonstrate the safe operation of various fire related equipment. | X | | | | | | |

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|---|---|----|----|--|---|---|---|
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| FTEC 4 Fire Company Organization and Management: SLO #1 Types of Leadership The student will be able to identify three styles of leadership. | X | | | X | | | |
| FTEC 4 Fire Company Organization and Management: SLO #2 Budgeting Systems The student will be able to identify 4 basic types of budgeting systems used in modern fire departments. | X | | | | | | |
| FTEC 4 Fire Company Organization and Management: SLO #3 Local Government Structure The student will be able to identify 3 different ways that local governments are structured. | X | | | | | | |
| FTEC 5 Fire Behavior and Combustion: SLO #1 Fire Behavior and Chemistry After the course of instruction the student will be able to recognize the terms and concepts related to fire behavior and chemistry. | X | | | X | X | | |
| FTEC 5 Fire Behavior and Combustion: SLO #2 Physical States of Matter The Student will be able to identify the 3 physical states of matter and their physical properties. | X | | | | | | |
| FTEC 5 Fire Behavior and Combustion: SLO #3 ICS System The student will be able to identify the five basic sections of the ICS system. | | X | | | | | |
| FTEC 6 Building Construction for Fire Protection: SLO #1 Types of Building Construction The student will be able to identify the 5 types of building construction. | X | | | X | | | |
| FTEC 6 Building Construction for Fire Protection: SLO #2 Pre-1933 Building Construction Indicators The student will be able to identify the indicators of pre-1933 building construction. | X | | | | | | |
| FTEC 6 Building Construction for Fire Protection: SLO #3 Under-Construction Hazards The student will be able to identify the hazards encountered in buildings that are under construction. | X | | | | | | |
| FTEC 9 Fire Apparatus and Equipment: SLO #1 Types of Aerial Apparatus The student will be able to identify and describe various types of fire apparatus in terms of their operational characteristics. | | X | | X | X | | |
| FTEC 9 Fire Apparatus and Equipment: SLO #2 Tools & Equipment The student will be able to identify and describe the tools and equipment carried on fire apparatus. | | X | | | | | |
| FTEC 9 Fire Apparatus and Equipment: SLO #3 Fire Apparatus Starting, Stopping & Backing Up The student will be able to describe the safe procedures for starting, stopping and backing up fire apparatus. | | X | | | | | |