



EASTERN
GATEWAY
COMMUNITY
COLLEGE

**EASTERN GATEWAY COMMUNITY COLLEGE
COLLEGE CATALOG 2021-2022 ADDENDUM**

ORIGINAL CATALOG PUBLISHED March 2021

**Addendum approved by cabinet (date): 9/22/2021
Addendum published (date): 9/24/2021**

Catalog Addendum Purpose:

What is the purpose of this addendum?

To add and or delete pre-requisites to Fire Science courses.

Catalog Addendum Effective Date:

What is the effective date of this addendum?

Immediately

Catalog Addendum:

List the detailed changes to the catalog, i.e. updated curriculum grid, updated tuition or fee, updated policy, etc.

FIR103-Add FIR104, FIR121

FIR201-Add FIR101, FIR 120, Delete: FIR102, FIR111, FIR121

FIR220-Add FIR103, FIR201, FIR202, FIR203

FIR230-Add FIR202

FIR231-Add FIR101, FIR120

FIR240-Delete FIR201, FIR210, FIR220

The above information replaces, supplements, or updates, the corresponding section(s) of the 2021-2022 Catalog on Page(s) [List the page number(s) to which the addendum specifically applies.]

Pages 184-185

FIRE SCIENCE (FIR)

FIR 101 Introduction to Fire and Emergency Services

3 Credits

This course gives the learner an extensive and comprehensive view concerning fire protection and emergency services; career openings in, not only fire protection, but corresponding fields; the prevalent culture and history of emergency services; fire loss concepts and analysis; the structure and function of both public and private fire safety service departments as they relate to and with local governments; regulations that affect fire services; fire service terminology; particular and explicit fire protection functions; fundamental fire chemistry, both inorganic and organic, along with physics basic introduction to fire safety systems; introduction to fire strategies, and lifesaving procedures

Theory 3 Credits

FIR103 Fire Protection and Detection Systems

3 Credits

This course provides data concerning the design facets relating to the operations of fire alarm devices and their organizational groupings, water-based fire extermination systems, unique elimination systems for both electric and gas fires, water supplies for fire suppression, and portable fire extinguishers.

Theory 3 Credits

Pre-requisite: FIR104, FIR121

FIR104 Fire Prevention

3 Credits

This course provides fundamental knowledge relating to the field of fire prevention. Topics include; history and philosophy of fire prevention, organization and operation of fire prevention bureau, and the application of codes and standards, plans review, fire inspections, fire and life safety education and fire investigations.

Theory 3 Credits

Pre-requisites: FIR101, FIR111, FIR120

FIR105 Occupational Safety and Health for Emergency Services

3 Credits

This course introduces the basic concepts of occupational health and safety as it relates to emergency services organizations. Topics include risk and hazard evaluation and control procedures for emergency services organizations.

Theory 3 Credits

Pre-requisites: FIR101, FIR111, FIR120

FIR111 Building Constructions for Fire and Life Safety

3 Credits

This course examines the multiple components of building construction that relates to a firefighter and his safety. The facets of construction and their design elements are shown to be key factors when inspecting structures, preplanning fire operations, and operating safely during emergencies.

Theory 3 Credits

FIR120 Public Sector Community Relations and Customer Service

3 Credits

This course is designed to focus on the importance of effective community and public relation issues regarding the education planning process for the general public. It focuses on customer service and customer relation issues, research, ethics, and effective communication with all involved.

Theory 3 Credits

FIR121 Combustion Processes and Fire Behavior

3 Credits

This course investigates the theories and basics of how and why fires begin, spread, and, are hopefully controlled, so that minimal damage occurs.

Theory 3 Credits

Pre-Requisite: FIR101, FIR120

FIR201 Fire Service Hydraulics

3 Credits

This course lays out a foundation of knowledge, both theoretical and practical, in order for the student to understand the principles of the use of water in fire suppression and the knowledge to apply hydraulic principles to analyze and solve water supply dilemmas.

Theory 3 Credits

Pre-Requisite: **FIR101, FIR120** ~~FIR102, FIR111, FIR121~~

FIR202 Legal Aspects of Emergency Services**3 Credits**

This course will address the federal, state and local laws that regulate emergency services and include a review of national standards, regulations and consensus standards.

Theory 3 Credits

Pre-requisite: FIR104, FIR121, FIR105

FIR203 Principles of Fire and Emergency Services Administration**3 Credits**

This course introduces the student to the organization and management of a fire and emergency services department and the relationship of government agencies to the fire service. Emphasis is placed on fire and emergency services ethics and leadership from the perspective of the company officer.

Theory 3 Credits

Pre-requisite: FIR104, FIR121, FIR105

FIR220 Fire Ground Strategy and Tactics**3 Credits**

This course provides the fundamental rules of fire ground control through the correct usage of personnel, tools, and extinguishing agents.

Theory 3 Credits

Pre-requisite: FIR103, FIR201, FIR202, FIR203

FIR230 Fire Investigation Methods**3 Credits**

This course is intended to give the student the basic technical knowledge needed for proper fire scene interpretations, including recognizing and conducting origin and cause, preservation of evidence and factual reporting, scene security, motives of the arsonist, and types of fire causes.

Theory 3 Credits

Pre-requisite: FIR202

FIR231 Hazardous Materials Operations and Command**3 Credits**

This course provides the student with the opportunity to explore hazardous materials through the lens of emergency services preparedness and response. This course reviews terminology, concepts, and best practices in relation to emergency services response to hazardous materials and related incidents at the awareness and operations level.

Theory 3 Credits

Pre-requisite: FIR101, FIR120

FIR240 Emergency Services Safety and Survival**3 Credits**

This course is to introduce the basic principles and history concerning national firefighter life safety initiatives and focuses on the need for cultural and behavioral changes necessary within the emergency service that is involved.

Theory 3 Credits

Pre-Requisite: FIR103, ~~FIR201, FIR210, FIR220~~