

# COURSE SYLLABUS

<b>LAST REVIEW</b>	Spring 2021
<b>COURSE TITLE</b>	Firefighter II
<b>COURSE NUMBER</b>	FRSC 0211
<b>DIVISION</b>	Health Professions
<b>DEPARTMENT</b>	Fire Science
<b>CIP CODE</b>	43.0203
<b>CREDIT HOURS</b>	3
<b>CONTACT HOURS/WEEK</b>	Class: 3
<b>PREREQUISITES</b>	FRSC 0100
<b>COURSE PLACEMENT</b>	Students must meet the correct placement measure for this course. Information may be found at: <a href="https://www.kckcc.edu/admissions/information/mandatory-evaluation-placement.html">https://www.kckcc.edu/admissions/information/mandatory-evaluation-placement.html</a>

## COURSE DESCRIPTION

This course meets all requirements for Firefighter II certification. Students will be provided the opportunity to take the third party certification test.

## PROGRAM LEARNING OUTCOMES

1. Demonstrate physical skills needed for employment as a firefighter.
2. Explain fire behavior.
3. Apply emergency management skills to provide basic emergency medicine in the field.
4. Evaluate strategy and tactics related to fire safety, survival techniques, and fire management.
5. Explain legal issues related to fire services administration.
6. Demonstrate employability skills necessary for completing the job search process.

## TEXTBOOKS

<http://kckccbookstore.com/>

## METHODS OF INSTRUCTION

A variety of instructional methods may be used depending on content area. These include but are not limited to: lecture, multimedia, cooperative/collaborative learning, labs and demonstrations, projects and presentations, speeches, debates, panels, conferencing, performances, and learning experiences outside the classroom. Methodology will be selected to best meet student needs.

## **COURSE OUTLINE**

- I. Building Construction
  - A. Common Building Materials
  - B. Construction Classifications
  - C. Firefighter Hazards Related to Building Construction
  
- II. Rescue and Extrication
  - A. Fire ground Search and Rescue
  - B. Victim Removal
  - C. Rescue and Extrication Tools and Equipment
  - D. Vehicle Extrication
  - E. Technical Rescue Incidents
  
- III. Water Supply
  - A. Principles of Water Supply Systems
  - B. Pressure Measurements
  - C. Fire Hydrants
  - D. Alternative Water Supplies
  - E. Rural Water Supply Operations
  
- IV. Fire Hose
  - A. Fire Hose Sizes
  - B. Causes and Prevention of Fire Hose Damage
  - C. General Care and Maintenance of Fire Hose
  - D. Fire Hose Couplings
  - E. Hose Rolls
  - F. Basic Hose Loads and Finishes
  - G. Preconnected Hose Loads for Attack Lines
  - H. Supply Hose Lays
  - I. Handling Hoselines
  - J. Advancing Hoselines
  - K. erating Hoselines
  - L. Service Testing Fire Hose
  
- V. Fire Streams
  - A. Extinguishing Properties of Water
  - B. Pressure Loss or Gain
  - C. Water Hammer
    - 1. Fire Stream Patterns and Nozzles
    - 2. Fire Fighting Foam
    - 3. Proportioners, Delivery Devices, and Generating Systems
    - 4. Assembling a Foam Fire Stream System
    - 5. Foam Application Techniques
    - 6. Foam Hazards

- VI. Fire Control
  - A. Suppressing Structure Fires
  - B. Deploying Master Stream Devices
  - C. Suppressing Class B Fires
  - D. Suppressing Class C Fires
  - E. Suppressing Class D Fires
  - F. Company Level Fire Tactics
  
- VII. Fire Detection, Alarm, and Suppression Systems
  - A. Type of Alarm Systems
  - B. Automatic Sprinkler Systems
  - C. Operations at Fires in Protected Properties
  
- VIII. Protecting Fire Scene Evidence
  - A. Roles and Responsibilities
  - B. On the Scene: Observations and Conduct
  - C. Responsibilities after the Fire
  - D. Fire Department Communications
  - E. Communication Center Personnel
  - F. Communications Center
  - G. Receiving Nonemergency Calls from the Public
  - H. Receiving Emergency Calls from the Public
  - I. Alerting Fire Department Personnel
  - J. Radio Communications
  - K. Incident Reports
  
- IX. Fire Prevention and Public Education
  - A. Fire and Life Safety Contacts
  - B. Fire Prevention
  - C. Fire Hazards
  - D. Fire Inspections
  - E. Public Fire and Life Safety Education
  - F. Fire Station Tours

**COURSE LEARNING OUTCOMES**

- A. Upon successful completion of this course, the student will:
- B. Explain how building construction impacts fire suppression efforts.
- C. Demonstrate vehicle extrication and rescue operations.
- D. Demonstrate the use of water supplies for fire suppression.
- E. Understand the proper implementation, handling, care and storage of fire hose.
- F. Suppress common combustible, electrical, and flammable liquid fires.
- G. Understand fire detection, suppression and alarm systems.
- H. Protect evidence of fire origin and cause.
- I. Describe emergency services communications.

J. Understand fire prevention and public safety responsibilities of the firefighter.

### **ASSESSMENT OF COURSE LEARNING OUTCOMES**

Student progress is evaluated through both formative and summative assessment methods. Specific details may be found in the instructor's course information document.

### **COLLEGE POLICIES AND PROCEDURES**

*Student Handbook*

<https://www.kckcc.edu/files/docs/student-resources/student-handbook-and-code-of-conduct.pdf>

*College Catalog*

<https://www.kckcc.edu/academics/catalog/index.html>

*College Policies and Statements*

<https://www.kckcc.edu/about/policies-statements/index.html>

*Accessibility and Accommodations*

<https://www.kckcc.edu/academics/resources/student-accessibility-support-services/index.html>.