DATE OF LAST REVIEW: 02/2013

CIP CODE: 43.0203

SEMESTER: Departmental Syllabus

COURSE TITLE: Firefighter II

COURSE NUMBER: FRSC0211

CREDIT HOURS: Three (3)

INSTRUCTOR: Departmental Syllabus

OFFICE LOCATION: Departmental Syllabus

OFFICE HOURS: Departmental Syllabus

TELEPHONE: Departmental Syllabus

EMAIL: Departmental Syllabus

KCKCC issued email accounts are the official means for electronically communicating with our students.

PREREQUISITE(S): FRSC0100

REQUIRED TEXT AND MATERIALS:
Please check with the KCKCC bookstore, http://www.kckccbookstore.com/, for the required texts for your particular class.

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

METHOD 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, and panels, conferencing, performances, and learning experiences outside the classroom. Methodology will be selected to best meet student needs.

COURSE OUTLINE:
The course outline is indicated below and is subject to change as course development dictates.

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. Operating Hoselines
L. Service Testing Fire Hose

V. Fire Streams
A. Extinguishing Properties of Water
B. Pressure Loss or Gain
C. Water Hammer
D. Fire Stream Patterns and Nozzles
E. Fire Fighting Foam
F. Proportioners, Delivery Devices, and Generating Systems
G. Assembling a Foam Fire Stream System
H. Foam Application Techniques
I. 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

IV. Fire Department Communications
   A. Communication Center Personnel
   B. Communications Center
   C. Receiving Nonemergency Calls from the Public
   D. Receiving Emergency Calls from the Public
   E. Alerting Fire Department Personnel
   F. Radio Communications
   G. Incident Reports

X. 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

EXPECTED LEARNER OUTCOMES:
A. The learner will be able to explain how building construction impacts fire suppression efforts.
B. The learner will be able to demonstrate vehicle extrication and rescue operations.
C. The learner will be able to demonstrate the use of water supplies for fire suppression.
D. The learner will be able to understand the proper implementation, handling, care and storage of fire hose.
E. The learner will be able to suppress common combustible, electrical, and flammable liquid fires.
F. The learner will be able to understand fire detection, suppression and alarm systems.
G. The learner will be able to protect evidence of fire origin and cause.
H. The learner will be able to describe emergency services communications.
I. The learner will be able to understand fire prevention and public safety responsibilities of the firefighter.

COURSE COMPETENCIES:

The learner will be able to explain how building construction impacts fire suppression efforts.
1. The student will have knowledge of how building construction relates to the fire service.

The learner will be able to demonstrate vehicle extrication and rescue operations.
2. The student will demonstrate rescue techniques.
3. The student will demonstrate extrication techniques.

The learner will be able to demonstrate the use of water supplies for fire suppression.
4. The student will be able to explain water supply principles.
5. The student will be able to explain the extinguishing properties of water.
6. The student will be able to explain how pressure is gained or lost in fire hose.
7. The student will be able to explain fire streams and nozzles.
8. The student will be able to explain fire fighting foam and techniques in its use.
9. The student will be able to explain how to suppress structure fires.
10. The student will be able to explain how to deploy master streams at a fire.
The learner will be able to understand the proper implementation, handling, care and storage of fire hose.

11. The student will be able to demonstrate general care and maintenance of fire hose.
12. The student will demonstrate how to test fire hose.

The learner will be able to suppress common combustible, electrical, and flammable liquid fires.

13. The student will be able to demonstrate how to extinguish class B, C, and D fires.
14. The student will be able to extinguish an ignitable liquid fire.
15. The learner will be able to control a flammable gas cylinder fire.

The learner will be able to understand fire detection, suppression and alarm systems.

16. The student will be able to explain alarm systems in structures.
17. The student will be able to explain fire sprinkler systems.

The learner will be able to protect evidence of fire origin and cause.

18. The student will be able to demonstrate how to protect evidence at a fire scene.
19. The student will be able to explain their roles and duties at a fire scene as it pertains to origin and cause.

The learner will be able to describe emergency services communications.

20. The student will be able to explain emergency communications as it pertains to fire and EMS services.
21. The student will be able to demonstrate proper radio communications in the fire service.
22. The student will be able to demonstrate how to fill out a fire incident report.

The learner will be able to understand fire prevention and public safety responsibilities of the firefighter.

23. The student will be able to demonstrate how to present a fire prevention program.
24. The student will demonstrate how to complete a private dwelling fire and safety survey.
25. The student will demonstrate how to prepare a preincident survey.

ASSESSMENT OF LEARNER OUTCOMES:
Assessment methods may include, but are not limited to, the following: Homework, Assignments, Quizzes, Class Participation, Chapter Tests, and Final Exam. The grading scale and the process for calculating the course grades are to be determined by the individual instructors. This information will be included in each instructor’s syllabus.

SPECIAL NOTES:
This syllabus is subject to change at the discretion of the instructor. Material included is intended to provide an outline of the course and rules that the instructor will adhere to in evaluating the student’s progress. However, this syllabus is not intended to be a legal contract. Questions regarding the syllabus are welcome any time.

Kansas City Kansas Community College is committed to an appreciation of diversity with respect for the differences among the diverse groups comprising our students, faculty, and staff that is free of bigotry and discrimination. Kansas City Kansas Community College is committed to providing a multicultural education and environment that reflects and respects diversity and that seeks to increase understanding.

Kansas City Kansas Community College offers equal educational opportunity to all students as well as serving as an equal opportunity employer for all personnel. Various laws, including Title IX of the Educational Amendments of 1972, require the college’s policy on non-discrimination be administered without regard to race, color, age, sex, religion, national origin, physical handicap, or veteran status and that such policy be made known.
Kansas City Kansas Community College complies with the Americans with Disabilities Act. If you need accommodations due to a documented disability, please contact the Director of the Academic Resource Center in Room 3354 or call 288-7670.