DATE OF LAST REVIEW: 02/2013

CIP CODE: 43.0205, 43.0202, 43.0203

SEMESTER: Departmental Syllabus

COURSE NAME: Building and Fire Codes

COURSE NUMBER: FRSC-0210

CREDIT HOURS: 3

INSTRUCTOR: Departmental Syllabus

OFFICE LOCATION: Departmental Syllabus

OFFICE HOURS: Departmental Syllabus

TELEPHONE: 913-334-1100

PREREQUISITE(S): None

REQUIRED TEXT(S): Please see bookstore for current textbook(s) and other required material.

DESCRIPTION OF COURSE:
Building and fire codes of city, state and federal governments. Codes and guides promulgated by other national organizations. Emphasis on provisions of city administrative code, the multiple dwelling law and code, rezoning resolutions, and city fire prevention regulations are emphasized.

METHOD OF INSTRUCTION:
A variety of methods are used. This includes, but is not limited to: lecture, videos, demonstration, cooperative learning, discussion, tutoring, and self-paced learning.

COURSE OUTLINE:
The course outline is indicated below and is subject to change as course development dictates.
1. Definitions
2. Classification of Occupancy and Hazard of Content
3. Means of Egress
4. Features of Fire Protection
5. Building Services
6. New Places of Assembly
7. Existing Places of Assembly
8. New Educational Occupancies
9. Existing Educational Occupancies
10. New Health Care Occupancies
11. Exiting Health Care Occupancies
12. New Hotel Occupancies
13. Existing Hotel Occupancies
14. The Lodging Industry
   A. Hazards
B. Economics
   C. Loss projections
15. New Apartment Buildings
16. Existing Apartment Buildings
17. Rooming Houses
18. One/Two-Family Dwellings
19. New Mercantile Occupancies
20. Existing Mercantile Occupancies
21. Business Occupancies
22. Industrial Occupancies
23. Storage
24. Operating Features
   A. Places of assembly
   B. Educational occupancies
   C. Health care occupancies
   D. Residential occupancies
   E. Mercantile occupancies
   F. Business occupancies
25. Standard Making Organizations
   A. Air Movement and Control Association
   B. Brick Institute of America
   C. American Hardboard Association
   D. Combustion Institute
   E. Fertilizer Institute
   F. Chlorine Institute American
   G. Concrete Association
   H. ASTM
   I. Gypsum Association
   J. Human Factors Society
   K. Steel Window Institute
   L. NFPA
   M. Society of Plastics Industry
   N. LP Gas Association
26. Insurance Organizations
   A. Alliance of American Insurers
   B. American Insurance Association
   C. American Nuclear Insurers
   D. Cotton Fire and Marine Underwriters
   E. GAB Business Services
   F. Industrial Risk Insurers
   G. I.S.O.
   H. National Cargo Bureau
   I. Improved Risk Mutuals
27. Laboratories
   A. Underwriters
   B. Factory Mutual
   C. Southwest Research Institute
   D. Center of Fire Research-NBS
   E. Ohio State University
28. Engineering of Code-Requirements
29. Code Enforcement
30. Plans Examining and Review

EXPECTED LEARNER OUTCOMES
1. The student will conduct a literature research project on current problems in code enforcement within the United States.
2. The student will identify and present one of the standard making, trade or insurance related organizations.
3. The student will review a required plan for code compliance

COURSE COMPETENCIES:

1. The student will understand the purpose and types of codes used in the U.S.
2. The student will demonstrate a knowledge of standards and approvals used in code enforcement.
3. The student will develop an understanding of the methods used in calculating code requirements.
4. The student will demonstrate his ability to review a set of plans for code compliance.
5. The student will discuss the current issues and problems in government regulations.
6. The student will be able to explain the standard making process for a number of associations and code development organizations.
7. The student will explain methods used in code enforcement.
8. The student will outline the code requirements for flammable materials.
9. The student will explain the code requirements for assembly structures.
10. The student will outline the inspection procedures for HVAC.
11. The student will outline the inspection procedures for new construction.
12. The student will explain the BOCA Code.
14. The student will outline the electrical code.
15. The student will explain the Uniform Building Code.
16. The student will outline the procedures for code review for egress.
17. The student will explain the code requirements for sprinkler systems.
18. The student will explain the code requirements for house lines.
19. The student will outline the process for review of private fire protection devices.
20. The student will explain new technology in the field of code enforcement.
21. The student will outline the code review for blueprints.
22. The student will explain the code requirements for interior finishes.
23. The student will outline the code requirements for floor coverings.
24. The student will explain the code requirements for retail stores.
25. The student will outline the code requirements for warehouses.
26. The student will explain the code requirements for high-rise structures.
27. The student will outline the code requirements for apartment complexes.
28. The student will demonstrate how to calculate area.
29. The student will demonstrate how to calculate volume.
30. The student will discuss the methods of testing materials for flammability.
31. The student will explain terms unique to code enforcement.
32. The student will outline the organizational structure of the code enforcement division.

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.

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