I. Catalogue Description and Credit Hours

Introduction to local, state, federal, and ICC building codes. (3)

II. Prerequisite(s)

DS111, CM126, or consent of instructor

III. Purposes or Objectives of Course

A. Students will understand the history of codes and their relationship to health, safety, and welfare of the built environment.
B. Students will recognize the criteria for various building types and the application of building codes.
C. Students will demonstrate the ability to appropriately utilize building codes.

IV. Student Learning Outcomes

A. Students will explain the progression of building codes and their relationship to health, safety, and welfare of the built environment.
B. Students will identify the criteria for various building types and the application of building codes.
C. Students will demonstrate the ability to appropriately utilize building codes.

V. Expectations of Students

A. Actively participate in class discussions.
B. Satisfactorily complete class assignments and quizzes.
C. Participate in required off campus field trips.
D. Satisfactorily complete written examinations.

VI. Course Outline or Content

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A. Introduction to Building Codes
   1. History and Context
   2. Codes and Regulations
   3. Laws
   4. Standards
   5. Sustainable Initiatives

B. Building Permits
   1. The Application
   2. Construction Documents
   3. Inspections
   4. Certificate of Occupancy

C. Occupancy
   1. Types
2. Special Detailed Requirements Based on Use and Occupancy
3. Occupant Loads

D. Heights and Areas
   1. Height and Area Modifications
   2. Mixed Use and Occupancy

E. Types of Construction
   1. Determine Type of Construction
   2. Required Fire-Resistance Ratings
   3. “Least” Requirements

F. Egress
   1. Means of Egress
   2. Vertical Movement
   3. Additional Components

G. Fire Separations and Fire-Resistive Construction
   1. Location and Separation
   2. Fire-Resistive Construction
   3. Fire and Smoke Separations (Vertical and Horizontal)
   4. Shafts

H. Interior Finishes
   1. Key Issues
   2. Selection Considerations
   3. Selection Process

I. Interior Environments
   1. Interior Space Dimensions
   2. Healthy and Safe Building Conditions
   3. Other Materials

J. Smoke and Fire
   1. Detection and Alarm Systems
   2. Portable Fire Extinguishers
   3. Sprinkler Systems
   4. Standpipe Systems
   5. Alternative Automatic Fire-Extinguishing Systems
   6. Smoke Control
   7. Fire Command Center

K. Accessibility
   1. Accessibility in Buildings
   2. Accessible Route
   3. Accessible Means of Egress
   4. Dwelling and Sleeping Units
   5. Special Occupancies

L. Existing Structures
   1. Changes to Existing Buildings
   2. Historic Buildings
   3. Accessibility in Existing Buildings
   4. Compliance Alternatives

M. Introduction to the International Residential Code (IRC)
   1. Codes and Permits
   2. Structural
3. Finishes and Weather Protection
4. Health and Safety
5. Building Utilities
6. Plumbing
7. Energy Conservation

* Total class hours = 45

VII. Textbook(s) and/or Other Required Materials


VIII. Basis for Student Evaluation

A. Class participation and field trips 10%
B. Class assignments 30%
C. Successfully complete written examinations 60%

Grading Scale
100%—90% A
89%—80% B
79%—70% C
69%—60% D
59%—below F

Note: The weight of the evaluation criteria may vary according to each instructor and will be communicated at the beginning of the course.

IX. Academic Policy Statement

Students will be expected to abide by the University Policy for Academic Honesty regarding plagiarism and academic honesty. Refer to: http://www6.semo.edu/judaffairs/code.html

X. Student with Disabilities Statement

If a student has a special need addressed by the Americans with Disabilities Act (ADA) and requires materials in an alternative format, please notify the instructor at the beginning of the course. Reasonable efforts will be made to accommodate special needs.

XI. Academic Integrity Statement

Questions, comments or requests regarding this course or program should be taken to your instructor. Unanswered questions or unresolved issues involving this class may be taken to Dr. Shelba Branscum.