1. **COURSE ID:** BLDG 710  
**TITLE:** Advanced Building Inspection  
**Units:** 4.5 units  
**Hours/Semester:** 72.0-81.0 Lecture hours  
**Method of Grading:** Grade Option (Letter Grade or P/NP)

2. **COURSE DESIGNATION:**  
   Degree Credit  
   Transfer credit: none

3. **COURSE DESCRIPTIONS:**  
   **Catalog Description:**  

4. **STUDENT LEARNING OUTCOME(S) (SLO'S):**  
   Upon successful completion of this course, a student will meet the following outcomes:  
   1. Demonstrate competency of the following components of a Building inspection and plan Check: structure, roofing, heating, electrical, exterior, cooling, plumbing, insulation and interior as outlined below:  
   2. To both recognize and comprehend installation and inspection procedures involved within the California Building Code as addressed within course lecture, text and supplemental materials (e.g. navigation of the code, use and occupancy, building heights and area, types of construction and means of egress.)  
   3. Illustrate a basic comprehension of the code requirements (i.e. the authority having jurisdiction will be plan checking and inspecting on the commercial and multi-family residential job site.)  
   4. Describe the types of construction involved in commercial and multi-family residential job site.  
   5. Describe the features of adequate design, installation and recognize their application to current code.  
   6. Demonstrate adequate usage of proper building inspection terminology relevant to this course.  
   7. Upon completion of this course be able to identify type of building and the construction means and methods in a manner that is consistent the International Code Conference.

5. **SPECIFIC INSTRUCTIONAL OBJECTIVES:**  
   Upon successful completion of this course, a student will be able to:  
   1. Demonstrate competency of the following components of a Building inspection and plan Check: structure, roofing, heating, electrical, exterior, cooling, plumbing, insulation and interior as outlined below:  
   2. To both recognize and comprehend installation and inspection procedures involved within the California Building Code as addressed within course lecture, text and supplemental materials (e.g. navigation of the code, use and occupancy, building heights and area, types of construction and means of egress.)  
   3. Illustrate a basic comprehension of the code requirements (i.e. the authority having jurisdiction will be plan checking and inspecting on the commercial and multi-family residential job site.)  
   4. Describe the types of construction involved in commercial and multi-family residential job site.  
   5. Describe the features of adequate design, installation and recognize their application to current code.  
   6. Demonstrate adequate usage of proper building inspection terminology relevant to this course.  
   7. Upon completion of this course be able to identify type of building and the construction means and methods in a manner that is consistent the International Code Conference.

6. **COURSE CONTENT:**  
   **Lecture Content:**  
   1. OCCUPANCIES: Overview and definitions of the occupancies A thru U+ Introduction to Special Occupancies (Malls/Atriums / Motor Vehicle occupancies)  
   2. OCCUPANCIES: Definition of Special Occupancies continued ( High Rise / Health Care (I-2) / Detention (I-3) / Transit Terminals / H / S / U / Ancillary Occupancies  
   3. FLOOR AREA: Definition and determination (BOCA definitions as they apply, what gets counted and how; CBC Chapter. 5, Tables 503)  
   4. CONSTRUCTION TYPES: Type I thru V and how they relate to the various occupancies and why (CBC Chapter. 6, Table 601, 602)  
   5. FIRE RESISTANT ASSEMBLIES: Fire and Smoke protection and control as they relate to the various occupancies (CBC Chapter. 7)  
   6. FIRE PROTECTION SYSTEMS: Fire Sprinklers and Alarms as they relate to the various occupancies (CBC Chapter. 9)
7. OCCUPANT LOAD CALCULATIONS: Why Occupant loads are important and how to calculate occupant loads and where to find them in a set of drawings.


9. EGRESS: Egress components continued; signage, lighting, door width/quantity and placement. How to calculate egress widths.

10. EGRESS: Special occupancy egress requirements (Exiting from a High Rise, Exiting from a subterranean Transit (use of Escalators).

11. WOOD: Wood design types and requirements. Minimum standards and quality of wood members, conventional light framing.

12. WOOD: Conventional light framing continued.

13. STUCTURAL DESIGN: Construction documents, General design requirements, SAP program, Dead loads, Live load.

14. STUCTURAL DESIGN: Snow, wind, flood and earthquake loads.

15. SOILS AND FOUNDATIONS: Design basis, Geotechnical reports, grading, waterproofing, foundations adjacent to slopes, Piers-shallow foundation, Piles-deep foundations.


17. CONCRETE: Structural plain concrete, slab provisions, shotcrete.

18. CONCRETE: Concrete reinforcement, review.


20. MASONRY: Glass unit masonry, Fireplaces, heaters, chimneys and additional requirements.

21. STEEL.

22. SPECIAL INSPECTIONS.

7. REPRESENTATIVE METHODS OF INSTRUCTION:
Typical methods of instruction may include:
A. Lecture
B. Discussion
C. Guest Speakers
D. Other (Specify): Small group discussion, materials demonstrations, written examination, reading assignments, handouts from the Uniform Building Code Study Guide

8. REPRESENTATIVE ASSIGNMENTS
Representative assignments in this course may include, but are not limited to the following:

Writing Assignments:
Written Homework assignments related to class material.

Reading Assignments:
The reading assignments are centered in sections of the official handbooks and in hand-outs the instructor provides from recent articles published in the Building Inspection industry.

9. REPRESENTATIVE METHODS OF EVALUATION
Representative methods of evaluation may include:
A. Class Participation
B. Class Work
C. Exams/Tests
D. Group Projects
E. Homework
F. Quizzes

10. REPRESENTATIVE TEXT(S):
Possible textbooks include:

Other:
A. Uniform Building Code

**Origination Date:** September 2015  
**Curriculum Committee Approval Date:** December 2015  
**Effective Term:** Fall 2016  
**Course Originator:** Anne Figone