1. COURSE ID: BLDG 750  TITLE: Structural Provisions  
Semester Units/Hours: 3.0 units; a minimum of 48.0 lecture hours/semester  
Method of Grading: Letter Grade Only  
Recommended Preparation:  
BLDG 700, or knowledge of the code development and organization, BLDG 790 or the ability to read construction documents and eligibility for MATH 120

2. COURSE DESIGNATION:  
Degree Credit  
Transfer credit: none

3. COURSE DESCRIPTIONS:  
Catalog Description:  
Study of basic structural concepts and building methods. Application of building codes, standards and testing criteria to assure quality construction. Discussion on sound inspection practices and the interpretation of structural provisions.

4. STUDENT LEARNING OUTCOME(S) (SLO'S):  
Upon successful completion of this course, a student will meet the following outcomes:  
A. Communicate verbally, in writing and graphically basic dynamic forces and structural reactions  
B. Research the organizational structure of building codes, standards and other resources.  
C. Reference standards and testing criteria to assure quality construction  
D. Apply the intent of code requirements with sound judgment and without bias.  
E. Interpret structural design and engineering graphics and terms  
F. Recognize graphically & visually, construction prone to seismic stresses & associated allowable remedies.

5. SPECIFIC INSTRUCTIONAL OBJECTIVES:  
Upon successful completion of this course, a student will be able to:  
A. Recall verbally, in writing and graphically basic dynamic forces and structural reactions  
B. Navigate the organizational structure of building codes, standards and other resources.  
C. Reference standards and testing criteria to assure quality construction  
D. Apply the intent of code requirements with sound judgment and without bias.  
E. Interpret structural design and engineering graphics and terms  
F. Recognize graphically & visually, construction prone to seismic stresses & associated allowable remedies.

6. COURSE CONTENT:  
Lecture Content:  
• Codes and Standard for structural design  
• Appropriate usage of the Codebooks for the various parts of the construction process  
• Seismic Design - various categories and relating the various codes to each category  
• Sections that cover each part of the structural codes for masonry materials and methods; reinforcement; wood  
• Seismic considerations; wind, flood and earthquakes - what happens  
• Introduction to steel construction  
• Introduction to wood structures

7. REPRESENTATIVE METHODS OF INSTRUCTION:  
Typical methods of instruction may include:  
A. Lecture  
B. Guest Speakers  
C. Other (Specify): materials demonstrations, written examination, reading assignments, handouts from the Uniform Building Code Field Inspection Workbook.

8. REPRESENTATIVE ASSIGNMENTS  
Representative assignments in this course may include, but are not limited to the following:  
Writing Assignments:
Assignments would include but not be limited to: reading sections of the building code and relating the information to solving a problem posed in the homework; examination and discussion of cases; discussions in class around problems posed by the instructor and how the code leads to an answer/solution.

**Reading Assignments:**
The reading assignments are centered on sections of the building codes and on hand-outs the instructor provides.

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

10. **REPRESENTATIVE TEXT(S):**
Other:
   A. Most recent edition of the International Building Code books and supplements from the California Building code books.

**Origination Date:** October 2010
**Curriculum Committee Approval Date:** October 2013
**Effective Term:** Fall 2014
**Course Originator:** Anne Figone