1. COURSE ID: BLDG 740  TITLE: Mechanical Code  
   Units: 3.0 units  Hours/Semester: 48.0-54.0 Lecture hours; and 96.0-108.0 Homework hours  
   Method of Grading: Letter Grade Only

2. COURSE DESIGNATION:  
   Degree Credit  
   Transfer credit: none

3. COURSE DESCRIPTIONS:  
   Catalog Description: 
   Regulations and inspection methods governing mechanical construction, heating and cooling equipment, 
   combustion air, floor furnaces, wall furnaces, unit heaters, venting, ducts, ventilation systems, and 
   refrigeration systems and equipment.

4. STUDENT LEARNING OUTCOME(S) (SLO'S):  
   Upon successful completion of this course, a student will meet the following outcomes:  
   1. Describe various HVAC equipment and their uses.  
   2. Identify correct installation procedures and labeling.  
   3. Define critical terms used in the Mechanical Code and in the HVAC profession.  
   4. Critically examine safety issues and their compliance to all building and fire codes.  
   5. Evaluate proposed systems through the plan check process.  
   6. Prepared for certification as a Mechanical Inspector.

5. SPECIFIC INSTRUCTIONAL OBJECTIVES:  
   Upon successful completion of this course, a student will be able to:  
   1. Describe various HVAC equipment and their uses.  
   2. Identify correct installation procedures and labeling.  
   3. Define critical terms used in the Mechanical Code and in the HVAC profession.  
   4. Critically examine safety issues and their compliance to all building and fire codes.  
   5. Evaluate proposed systems through the plan check process.  
   6. Prepared for certification as a Mechanical Inspector.

6. COURSE CONTENT:  
   Lecture Content:  
   1. CALIFORNIA ADMINISTRATIVE CODE  
   2. CALIFORNIA BUILDING CODE  
   3. CALIFORNIA RESIDENTIAL CODE  
   4. CALIFORNIA ELECTRICAL CODE  
   5. CALIFORNIA MECHANICAL CODE  
   6. CALIFORNIA PLUMBING CODE  
   7. CALIFORNIA ENERGY CODE  
   8. CALIFORNIA HISTORICAL BUILDING CODE  
   9. CALIFORNIA FIRE CODE  
   10. CALIFORNIA EXISTING BUILDING CODE  
   11. CALIFORNIA GREEN BUILDING STANDARDS CODE  
   12. CALIFORNIA REFERENCED STANDARDS CODE

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

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

**Writing Assignments:**
- Written responses to homework questions.
- Written reports following correct format.
- Ability to detect visual defects in systems/components.

**Reading Assignments:**
- Reading assigned from course textbook.

**Other Outside Assignments:**
- Research of specific documents. Critique an inspection report.

9. **REPRESENTATIVE METHODS OF EVALUATION**
Representative methods of evaluation may include:
   A. Class Participation
   B. Quizzes
   C. Short quizzes, midterm and final examinations.

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

   **Origination Date:** September 2020  
   **Curriculum Committee Approval Date:** October 2020  
   **Effective Term:** Fall 2021  
   **Course Originator:** Peter von Bleichert