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. **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.

7. **REPRESENTATIVE ASSIGNMENTS**  
   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.

8. **REPRESENTATIVE METHODS OF EVALUATION**  
   Representative methods of evaluation may include:  
   A. Class Participation  
   B. Quizzes  
   C. Short quizzes, midterm and final examinations.
9. REPRESENTATIVE TEXT(S):
Other:
   A. Textbook: 2016 California Mechanical Code

   Origination Date: August 2016
   Curriculum Committee Approval Date: October 2016
   Effective Term: Fall 2017
   Course Originator: Anne Figone