College of San Mateo
Official Course Outline

1. **COURSE ID:** BLDG 730 **TITLE:** Plumbing Inspection
   Units: 3.0 units **Hours/Semester:** 48.0-54.0 Lecture hours; and 96.0-108.0 Homework hours
   Method of Grading: Grade Option (Letter Grade or Pass/No Pass)

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

3. **COURSE DESCRIPTIONS:**
   Catalog Description:
   Plumbing Code regulations pertinent to all phases and types of construction. Course covers sewers, building drains, rainwater/stormwater drainage, venting, water distribution systems, natural gas systems, indirect waste systems, general regulations and administrative regulations as proffered by the most current version of the California Plumbing Code.

4. **STUDENT LEARNING OUTCOME(S) (SLO'S):**
   Upon successful completion of this course, a student will meet the following outcomes:
   1. Identify types of plumbing systems.
   2. Locate particular sections of the Plumbing Code relative to questions asked during inspections.
   3. Recognize proper sizing of drainage, vent, water and gas systems.
   4. Write and speak in Plumbing Code terms of art as identified in the Code format.
   5. Be able to serve as a resource on the comprehensive information available on general plumbing systems.
   6. Understand minimum performance, design, installation and maintenance of plumbing systems.

5. **SPECIFIC INSTRUCTIONAL OBJECTIVES:**
   Upon successful completion of this course, a student will be able to:
   1. Identify types of plumbing systems.
   2. Locate particular sections of the Plumbing Code relative to questions asked during inspections.
   3. Recognize proper sizing of drainage, vent, water and gas systems.
   4. Write and speak in Plumbing Code terms of art as identified in the Code format.
   5. Be about to serve as a resource on the comprehensive information available on general plumbing systems.
   6. Understand minimum performance, design, installation and maintenance of plumbing systems.

6. **COURSE CONTENT:**
   Lecture Content:
   2019 California Plumbing Code
   Chapter 1, Parts I and II - Matrix and California
   Chapter 2 Definitions and their Importance in the Trade
   Chapter 3 General Regulations
   Chapter 4 Plumbing Fixtures and Fixture Fittings
   Chapter 5 Water Heaters & Sizing Venting Systems
   Chapter 6 Water Supply and Distribution
   Chapter 7 Sanitary Drainage
   Chapter 8 Indirect Wastes
   Chapter 9 Vents
   Chapter 10 Traps and Interceptors
   Chapter 11 Storm Drainage & Rainwater Catchment Systems
   Chapter 12 Fuel Piping
   Chapter 16A Non Potable Water Reuse Systems
   Chapter 16A Graywater, Reclaimed/Recycled Water Systems

7. **REPRESENTATIVE METHODS OF INSTRUCTION:**
   Typical methods of instruction may include:
   A. Lecture
   B. Guest Speakers
   C. Other (Specify): In-class group assignments

8. **REPRESENTATIVE ASSIGNMENTS**
   Representative assignments in this course may include, but are not limited to the following:
   Writing Assignments:
   Individual and group discussions and presentations. Writing assignment will require oral dissemination by students in class to evaluate comprehension and application of class material.

   Reading Assignments:
   Reading assignments that will require oral dissemination by students in class to evaluate comprehension and application of class material.

9. **REPRESENTATIVE METHODS OF EVALUATION**
   Representative methods of evaluation may include:
   A. Class Participation
   B. Exams/Tests
   C. Quizzes
   D. Research Projects

10. **REPRESENTATIVE TEXT(S):**
    Possible textbooks include:
    A. International Association of Plumbing and Mechanical Officials. *2019 California Plumbing Code*, ed. Ontario: International Association of Plumbing and Mechanical Officials, 2019

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