

College of San Mateo
Official Course Outline

1. **COURSE ID:** BLDG 790 **TITLE:** Blueprint Reading for Construction
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:
Course provides an overview of the building, mechanical, plumbing and electrical systems as it relates to construction with an emphasis reading plans. Suitable for jurisdictional or home inspectors, facility managers, contractors, architects, engineers and those in related fields of the real estate profession.
4. **STUDENT LEARNING OUTCOME(S) (SLO'S):**
Upon successful completion of this course, a student will meet the following outcomes:
 1. Read and analyze plans and symbols
 2. Determine the legal requirements on a set of plans
 3. Identify, interpret, and properly use blueprint terms
 4. Identify and label symbols for construction materials and utility systems
 5. Paraphrase building codes and their relation to blue plans
5. **SPECIFIC INSTRUCTIONAL OBJECTIVES:**
Upon successful completion of this course, a student will be able to:
 1. Read and analyze plans and symbols
 2. Determine the legal requirements on a set of plans
 3. Identify, interpret, and properly use blueprint terms
 4. Identify and label symbols for construction materials and utility systems
 5. Paraphrase building codes and their relation to blue plans
6. **COURSE CONTENT:**
Lecture Content:
 1. 1st week - Section 1 Unit - 1 Test your Knowledge and activities for homework.
 - A. Instructor/student introductions
 - B. Course outline handout
 - C. Course material
 - D. What to expect out of this class
 - E. Why blueprints are important
 - F. Construction terms
 2. 2nd week - Section 2 Units - 4,6,7,8 Test your knowledge and activities for homework
 3. 3rd week - Section 3 Units 9-10 Test your knowledge and activities for homework
 4. 4th week - Section 4 Units 11-14 Test your knowledge and activities for homework
 5. 5th week - Section 4 Units 15-18 Test your knowledge and activities for homework. We will cover Section 5 if we have time.
 6. 6th week Section 4 Units 11-18 Continue section and review for midterm test
 7. 7th week - Mid Term
 8. 8th week Section 6 Units 11-18 Test your knowledge and activities for homework.
 - A. Mid term review
 - B. Subject - Advance Print Reading Project - A, Two story residence.
 9. 9th week Section 6 - Advance Print Reading Project - A, Two Story Residence
 - A. Quiz - Two Story Residence
 10. 10th week- Section 6 Advance Print Reading Project - B Split Level Residence
 11. 11th week- Section 6 Advance Print Reading Project - B Split Level Residence
 - A. Quiz
 - B. Review
 12. 12th week - Advance Print reading Project - C office Building

13. 13 th week- section 6 - Advance Print Reading Project - C Office Building
14. 14th week- section 6 - Advance Print Reading Project - C Office Building
15. 15th week Whole Semester Review
16. 16th week- Final Exam

7. REPRESENTATIVE METHODS OF INSTRUCTION:

Typical methods of instruction may include:

- A. Discussion
- B. Guest Speakers
- C. Other (Specify): material demonstrations, written examinations

8. REPRESENTATIVE ASSIGNMENTS

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

Writing Assignments:

Create a home inspection report.

Reading Assignments:

Weekly assigned readings from course texts.

9. REPRESENTATIVE METHODS OF EVALUATION

Representative methods of evaluation may include:

- A. Exams/Tests
- B. Quizzes
- C. Critique of a home inspection reports.

10. REPRESENTATIVE TEXT(S):

Possible textbooks include:

- A. Brown, W.C. & Dorfmueller, D.P.. *Blueprint Reading for Construction*, ed. Goodheart-Willcox, 2019

Other:

- A. Title 24 volume of codes as published by the State of California, latest addition.
- B. International Building Code (IBC)
- C. International Residential Code (IRC)

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